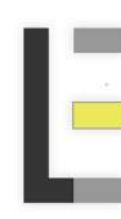


EXTERIOR LIGHTING - Rev 1

121 EAST WILSON STREET

Madison, Wisconsin

February 13 2023



LIGHTING ERGONOMICS

100 Sunbridge Ln,
Buffalo Grove (Chicago), IL 60089.
Ph1: +1 312 994 2374,
mail@lightingergonomics.com

INDEX		LIGHTING LEGEND	
LD100: COVER SHEET LIGHTING LD101: PARKING LEVEL 3 LIGHTING PLAN LD102: FIRST FLOOR LIGHTING PLAN LD103: SECOND FLOOR LIGHTING PLAN LD104: FORTEENTH FLOOR LIGHTING PLAN LD105: BUILDING FAÇADE LIGHTING LD106: LIGHTING SCHEDULES		<p>TYPE: SUGGESTED SUSPENSION POINT CONTROL: CIRCUIT/SWITCH, OR LOW-VOLTAGE RELAY/ZONE DIMMING ZONE POWER IN:<ul style="list-style-type: none">HOLLOW CIRCLE - NORMAL POWERSOLID CIRCLE - EMERGENCY POWERLOCATION OF CIRCLE INDICATES SUGGESTED POWER ENTRY FEED TO THE LUMINAIRELUMINAIRE TYPE TYPE DESCRIPTION L LUMINAIRE</p>	
GENERAL NOTES		<p>1. ALL THE SHEETS IN THIS DESIGN DEVELOPMENT MANUAL, UNLESS OTHERWISE MENTIONED, TO BE PLOTTED TO 30" X 42" SHEET</p> <p>2. REFER TO LIGHTING LEGEND ON THE SIDE FOR THE FIXTURE SYMBOL & ABBREVIATION INFORMATION.</p> <p>3. REFER TO SHEET LD106 FOR LUMINAIRE SCHEDULE</p> <p>4. ALL DIMENSIONS ARE IN INCHES & FOOT UNLESS OTHERWISE SPECIFIED.</p> <p>5. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. DO NOT SCALE THE DRAWING.</p> <p>6. ALL THE REFERENCED HEIGHTS ARE FROM FINISHED FLOOR TO THE BOTTOM OF THE LUMINAIRE, UNLESS OTHERWISE NOTED.</p> <p>7. FOR ALL THE LINEAR LUMINAIRES, EXACT LENGTH TO BE DERIVED FROM THE ARCHITECTURAL CONDITIONS WITHIN WHICH THEY ARE INSTALLED.</p> <p>8. PROVISIONS FOR THE REMOTE DRIVER SHALL BE MADE IN THE NEAREST ACCESSIBLE LOCATION FOR EASY MAINTENANCE. DISTANCE OF THE DRIVER FROM THE LUMINAIRE SHALL BE MAINTAINED AS PER MANUFACTURER'S RECOMMENDATIONS</p> <p>9. RELEVANT SERVICES DRAWINGS ARE TO BE READ SIMULTANEOUSLY AND PROVISION OF CUTOUTS / SLEEVES TO BE PROVIDED AS REQUIRED.</p> <p>10. ALL MANUFACTURERS CONTAINED WITHIN THIS MANUAL ARE PRESENTED TO DEFINE DESIGN DIRECTION AND PERFORMANCE. ALL FINAL SELECTIONS OF MANUFACTURERS SHALL BE AS SPECIFIED OR EQUAL.</p>	
OTHER SYMBOLS		<p>◊ NOTE DESIGNATION</p> <p>1 CONTROL NOTE</p>	

PRELIMINARY
NOT FOR CONSTRUCTION

121 E. Wilson Street
Quad Capital Partners

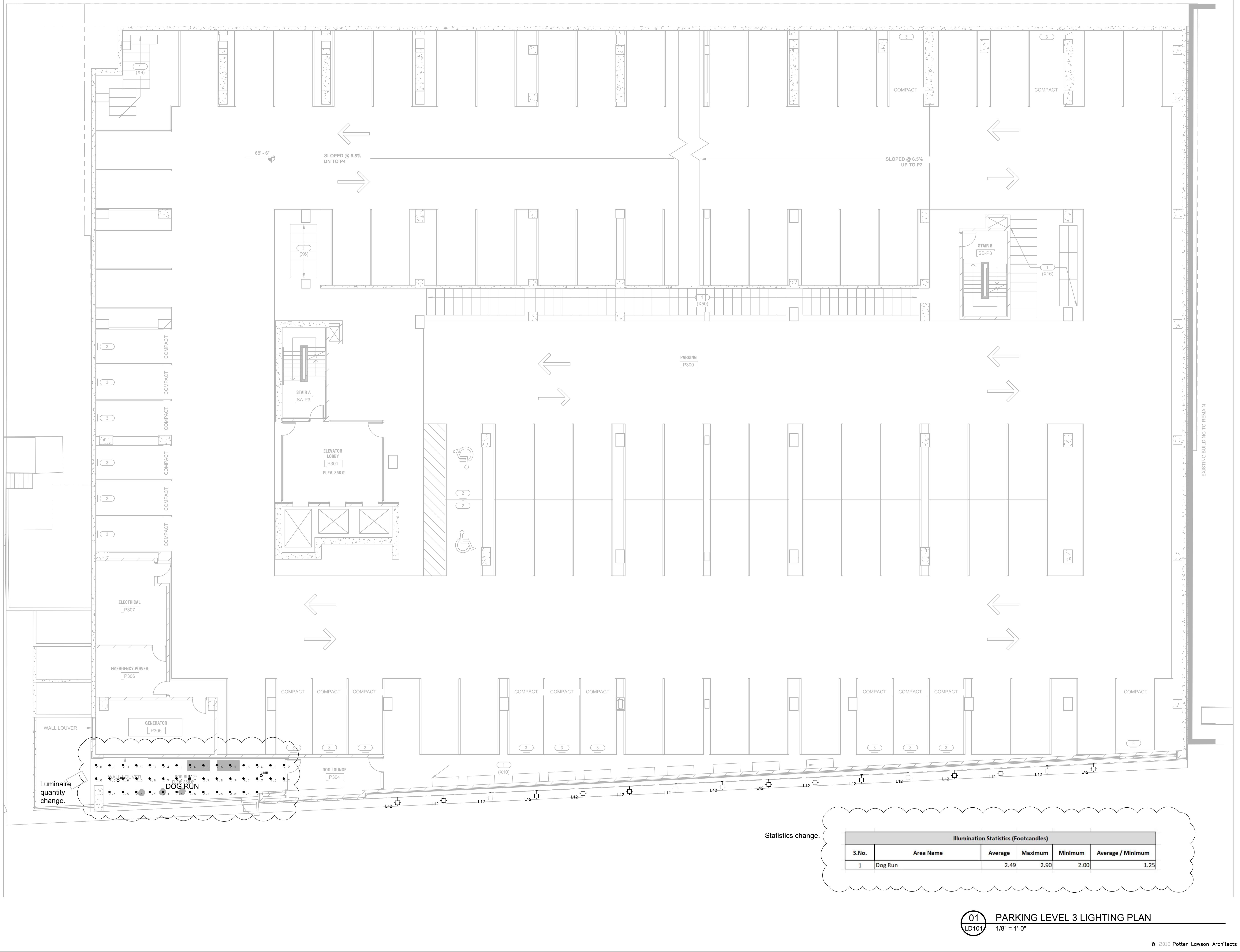
Madison, WI

2021.27.00

Date	Issuance/Revisions	Symbol
02/13/23	URBAN DESIGN COMMISSION REVIEW	

COVER SHEET
LIGHTING

LD100



121 E. Wilson Street Quad Capital Partners

Madison, WI

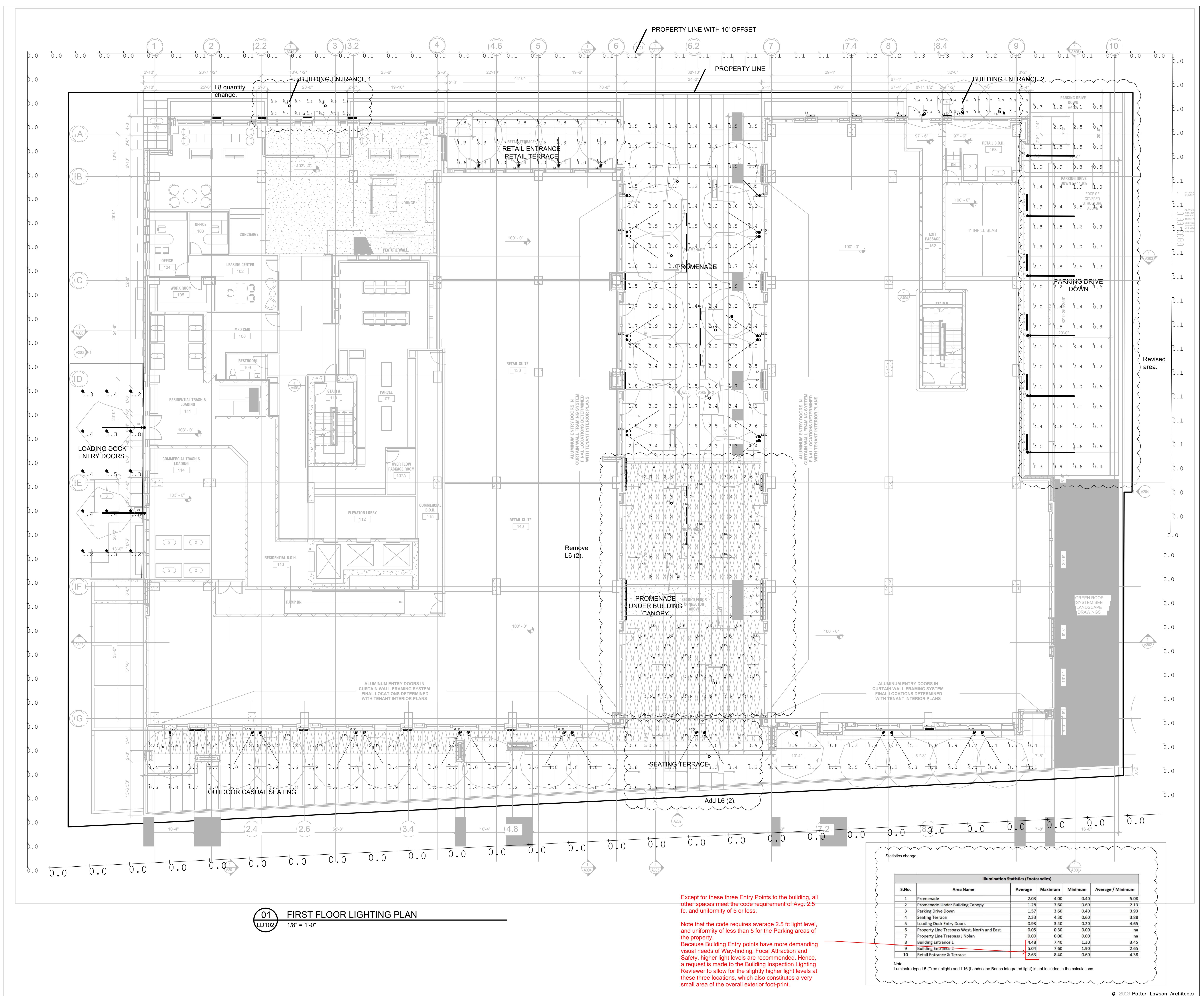
2021.27.00

Date	Issuance/Revisions	Symbol
02/13/23	URBAN DESIGN COMMISSION REVIEW	

PARKING LEVEL 3

LIGHTING PLAN

LD101



121 E. Wilson Street
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02/13/23	URBAN DESIGN COMMISSION REVIEW	

FIRST FLOOR LIGHTING PLAN

LD102

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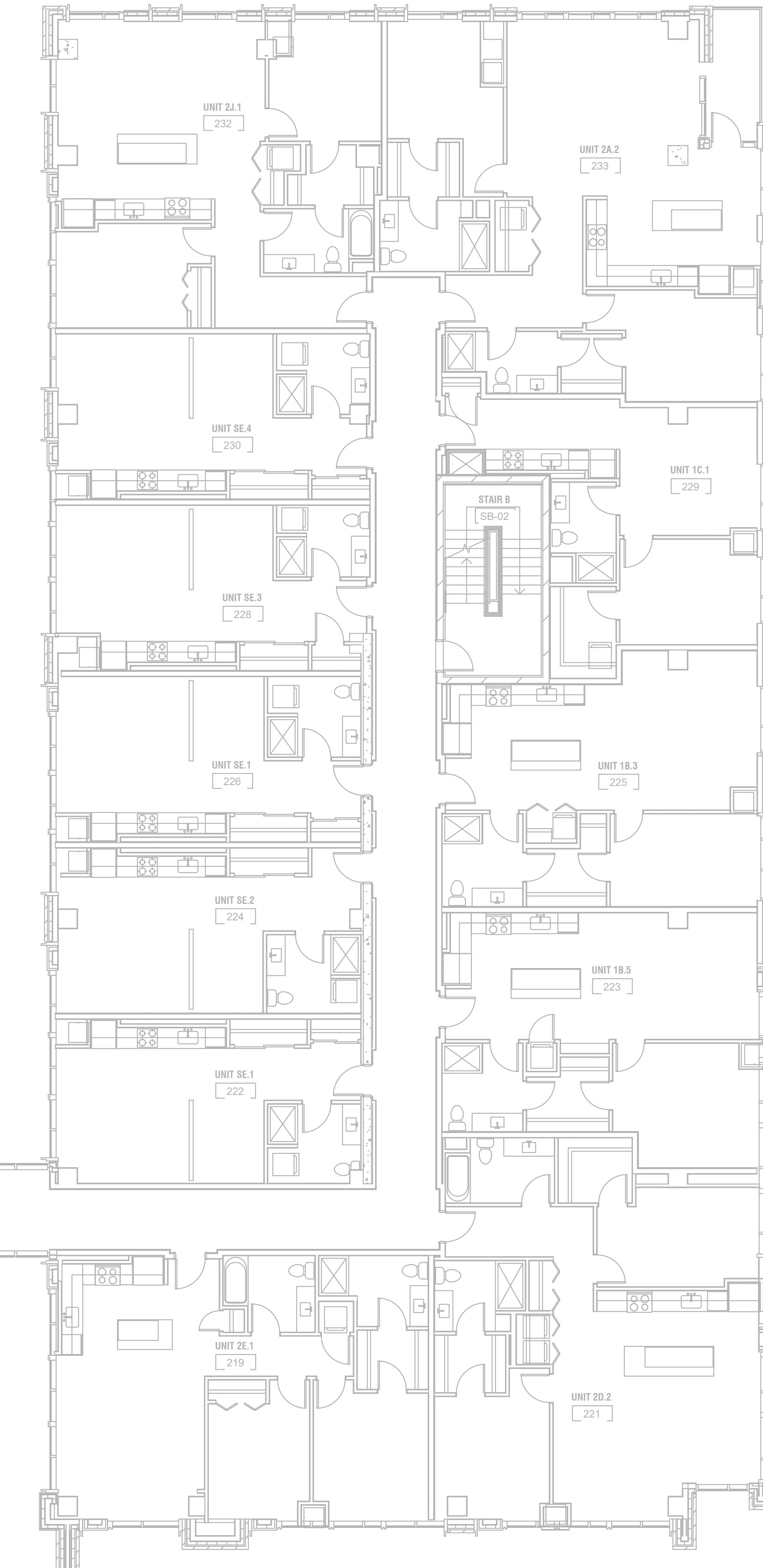
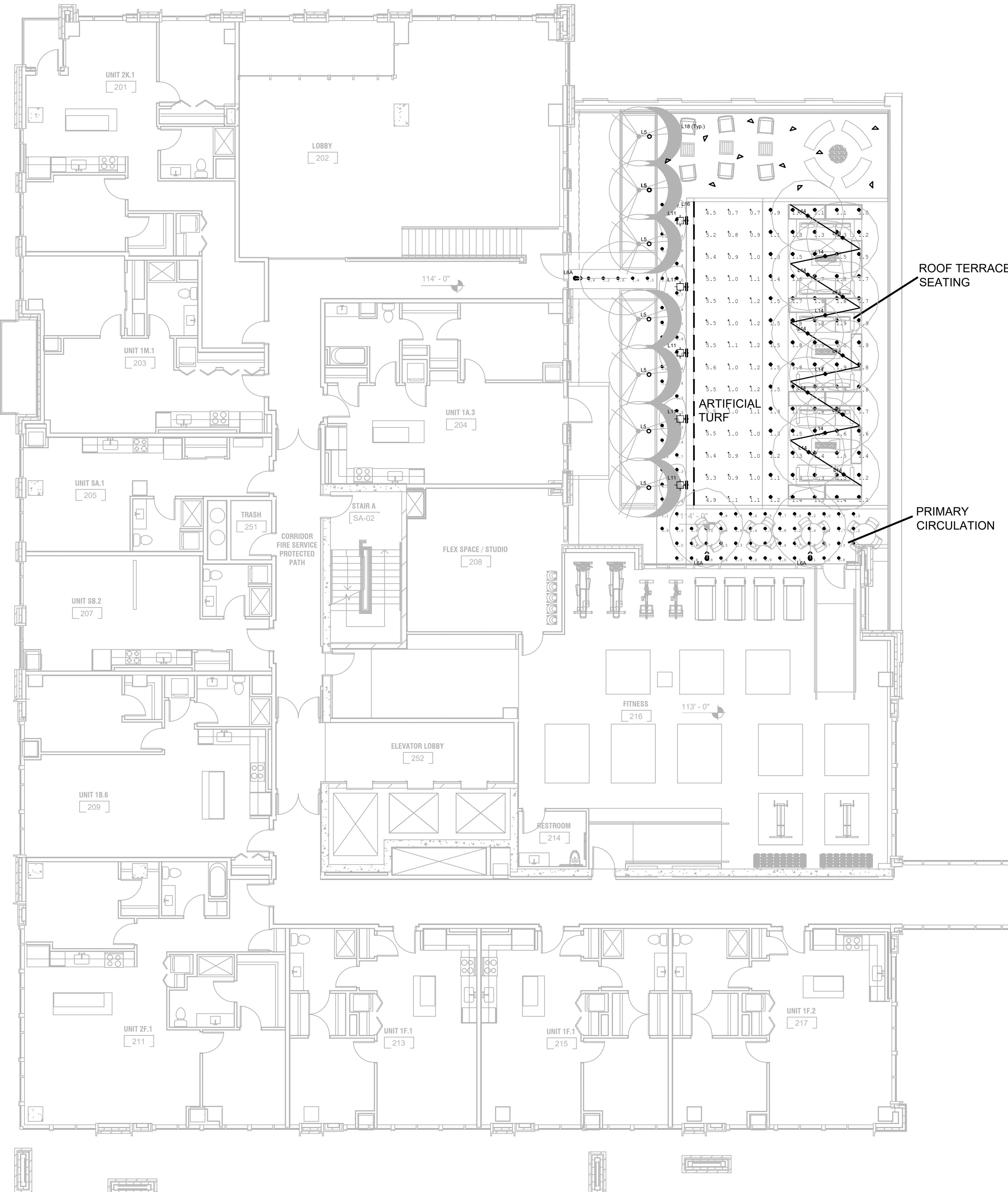
Madison, WI

2021.27.00

Date Issuance/Revisions Symbol
02/13/23 URBAN DESIGN COMMISSION REVIEW

SECOND FLOOR
LIGHTING PLAN

LD103

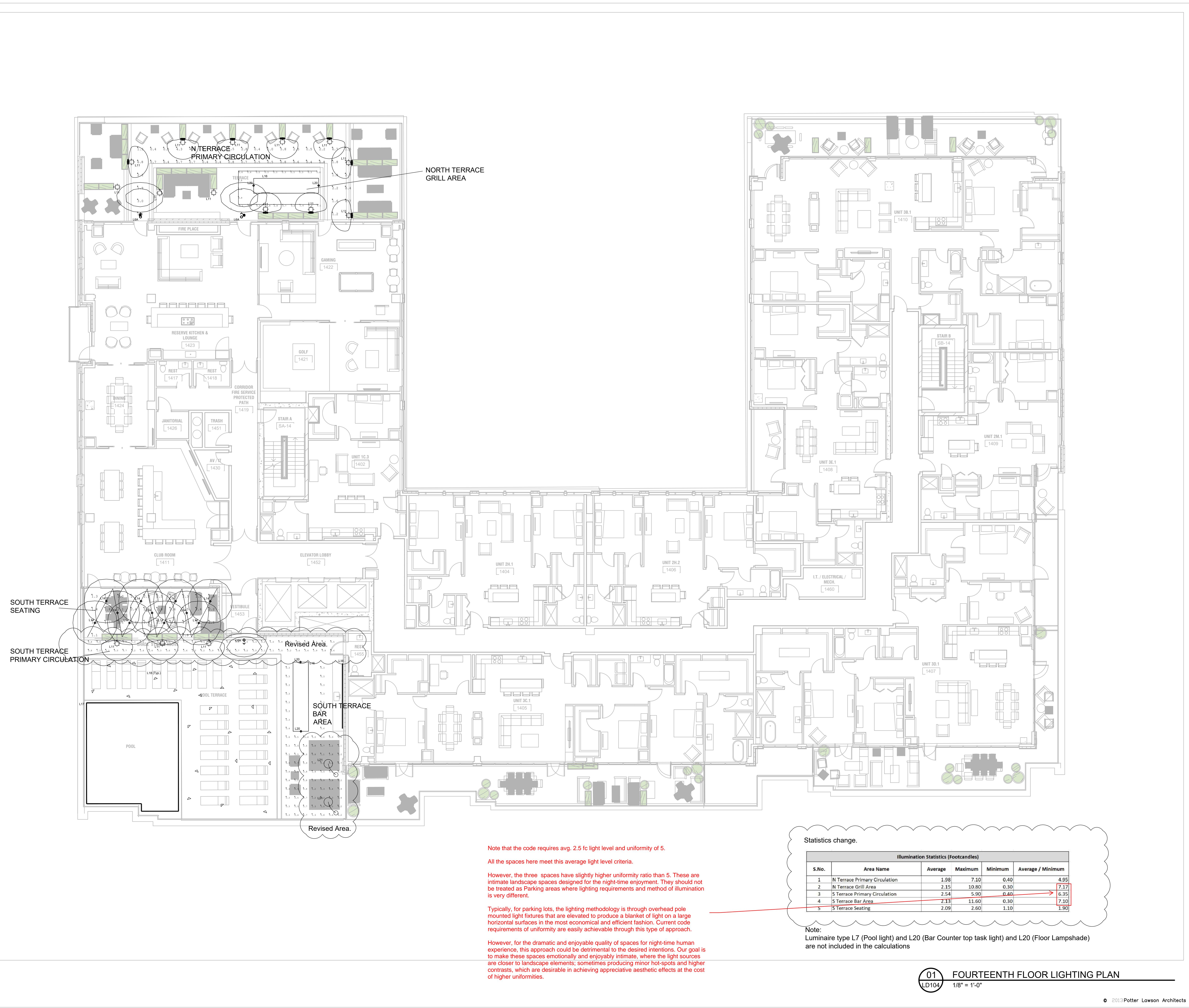


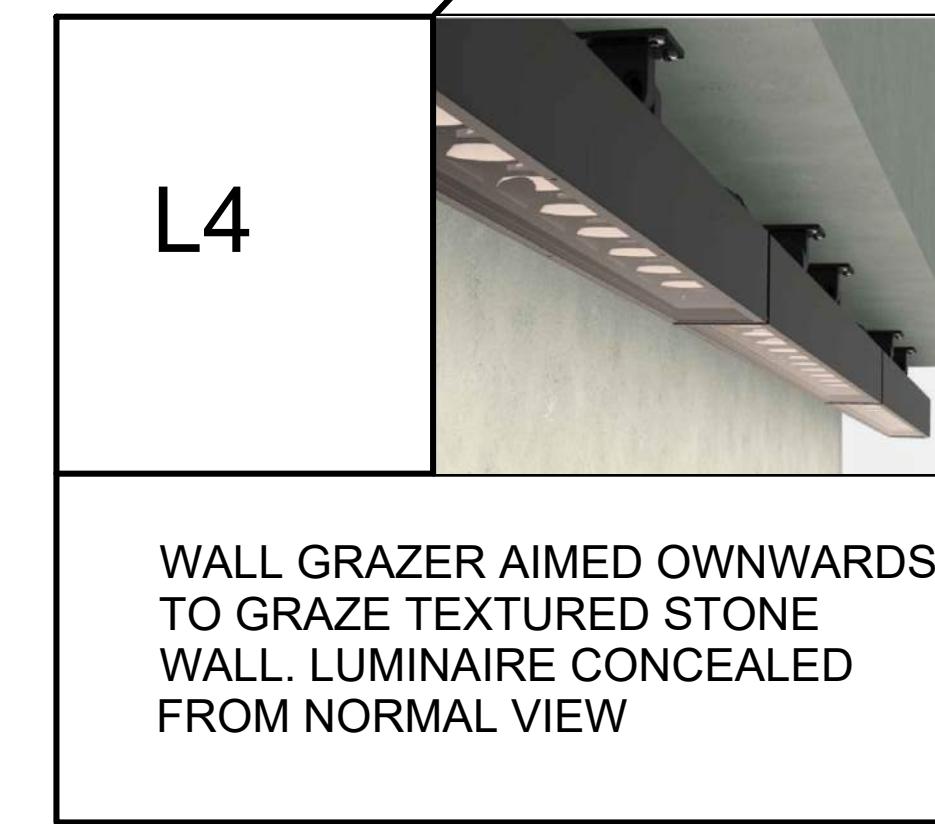
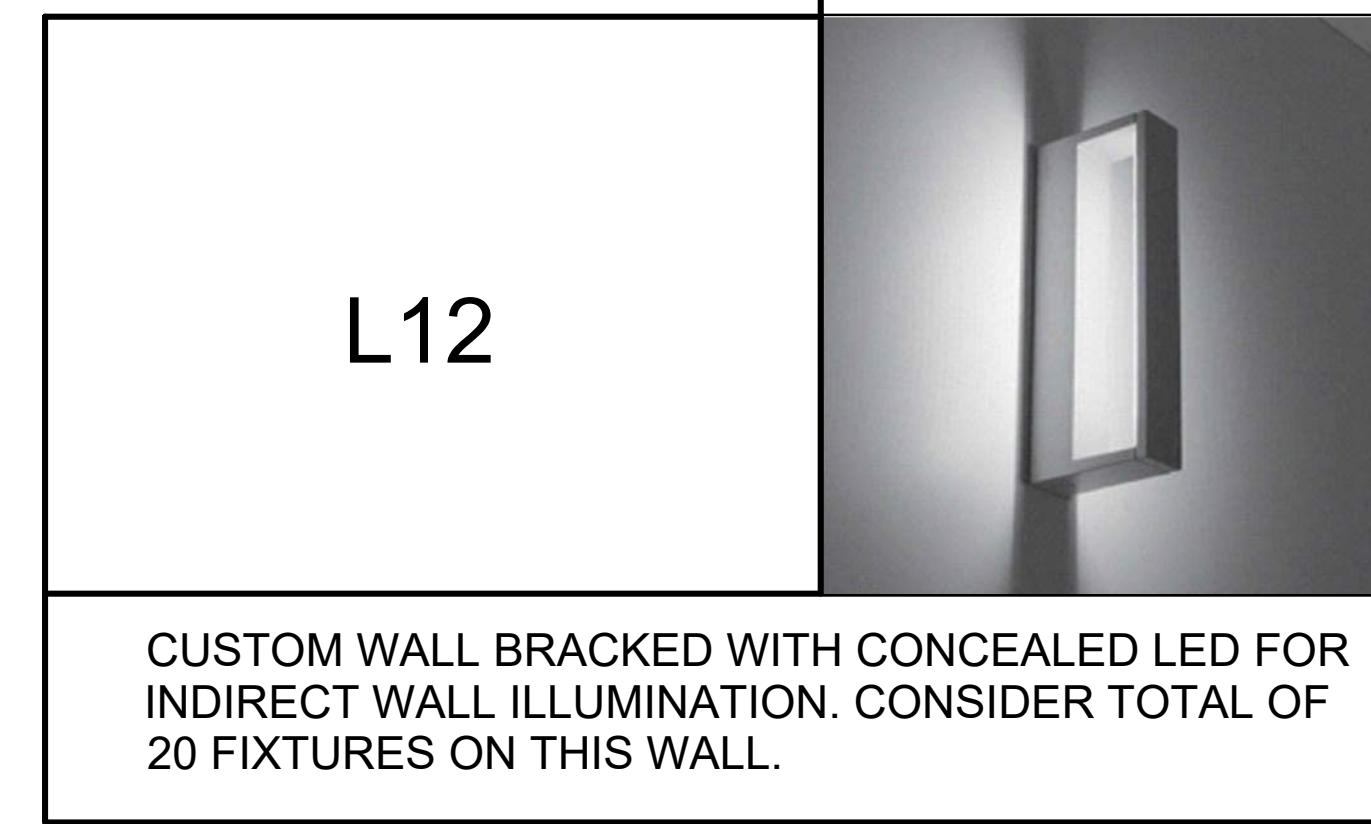
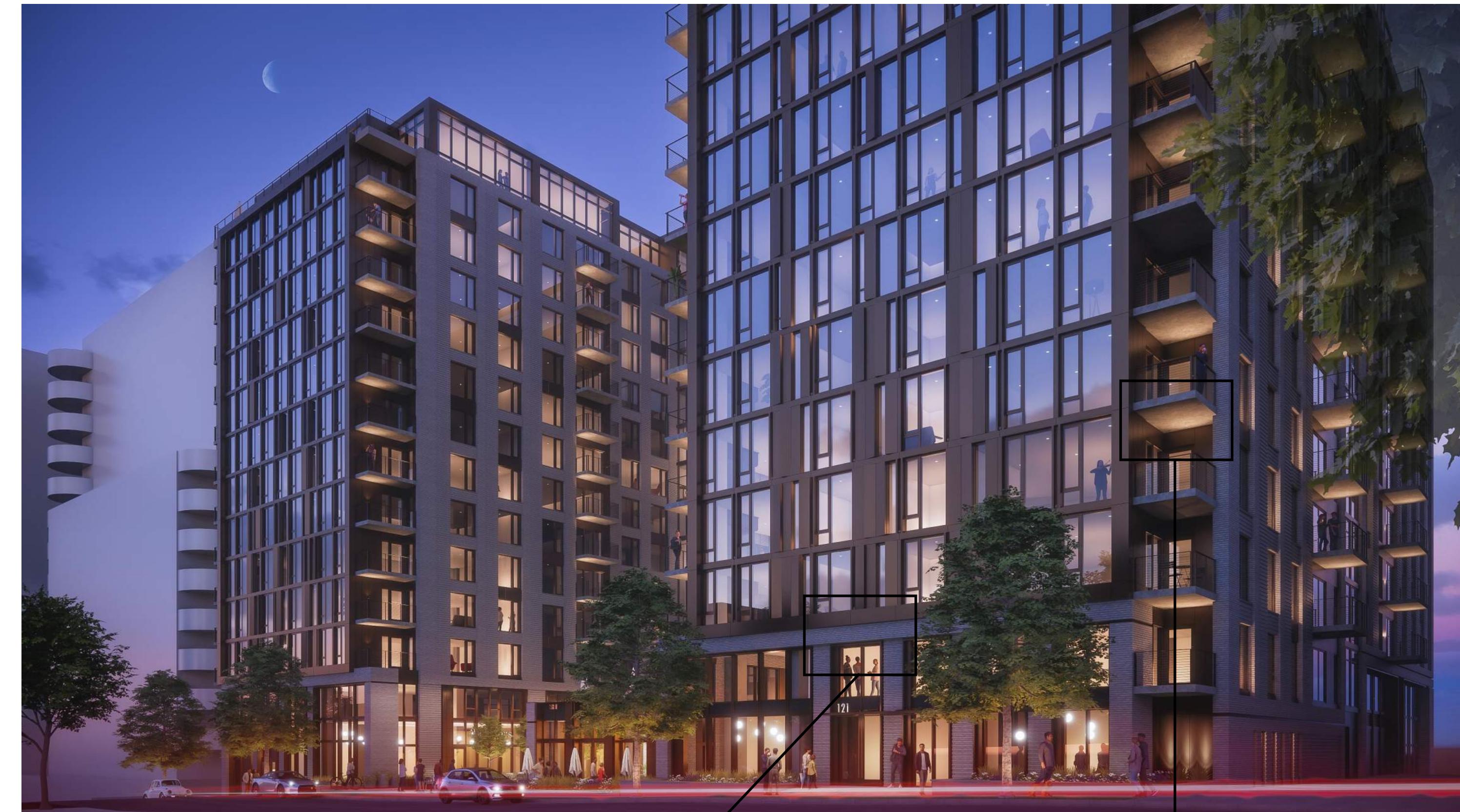
Note that the code required avg. 2.5 fc light level and uniformity less than 5. All the three spaces meet this criteria.

Statistics change

Illumination Statistics (Footcandles)					
S.No.	Area Name	Average	Maximum	Minimum	Average / Minimum
1	Artificial Turf	2.45	5.60	0.70	3.50
2	Primary Circulation	2.11	8.90	0.60	3.52
3	Roof Terrace Seating	1.52	2.00	0.90	1.69

01 SECOND FLOOR LIGHTING PLAN
LD103 1/8" = 1'-0"





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02/13/23	URBAN DESIGN COMMISSION REVIEW	

**BUILDING FAÇADE
LIGHTING**

LD105



121 E. Wilson Street
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Madison, WI

2021.27.00

Date	Issuance/Revisions	Symbol
02/13/23	URBAN DESIGN COMMISSION REVIEW	

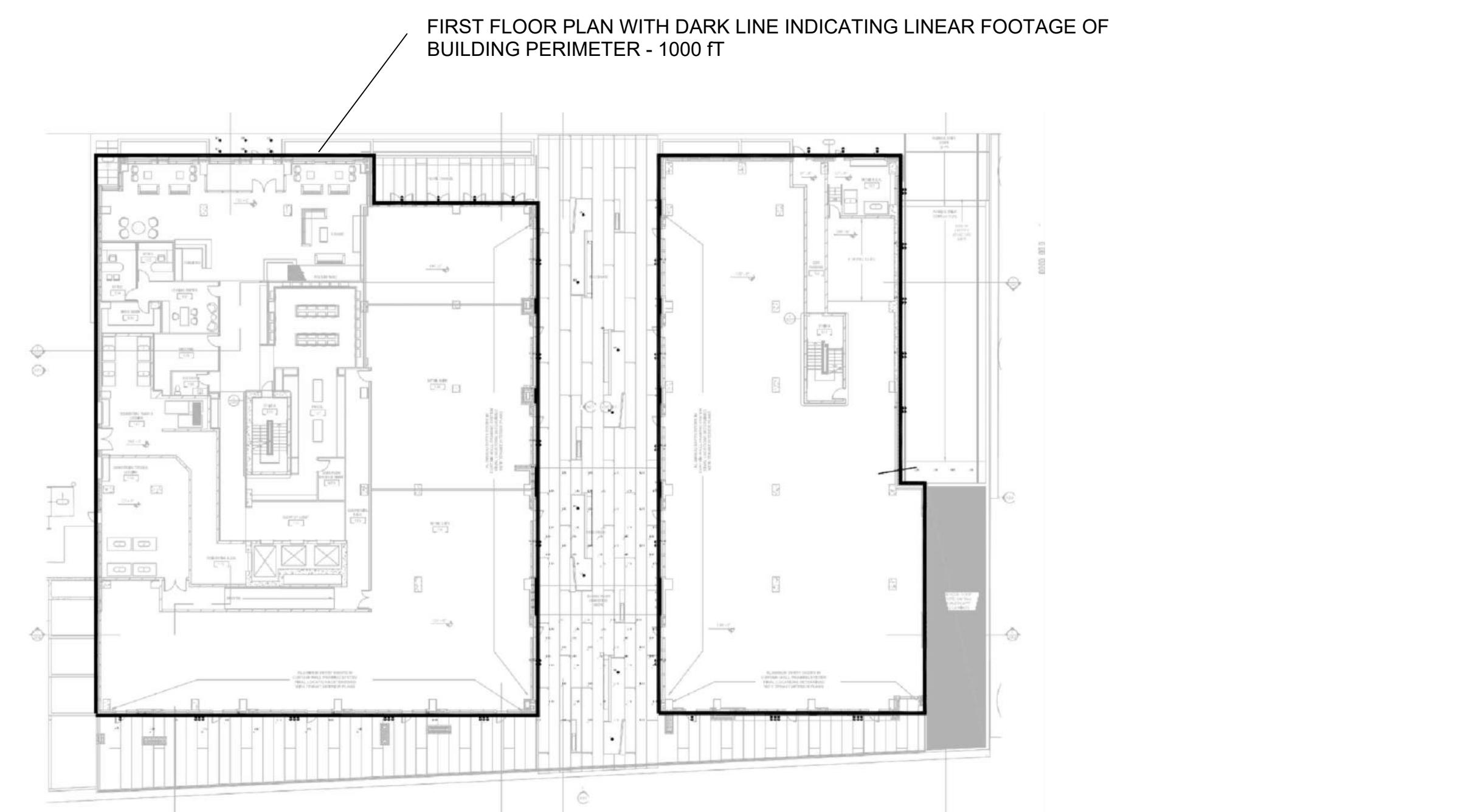
LIGHTING
SCHEDULES

LD106

LUMINAIRE SCHEDULE

Luminaire Reference	Image	Where Fixtures are Proposed to be Used	Generic Luminaire Description: [Physical] [Mounting] [Profile/Shape] & [Function]	Reference Product	Wattage	Lumens
L1	Not Used					
L2	Not Used					
L3	Not Used					
L4		Exterior Promenade Textured Column Accent	2.64" H x 2" W x 24" L Extruded Aluminum Surface Mounted Wet Location Grazing Downlight	Insight: Medley Exterior Remote (MER) Series	18 Watts	1566 lm
L5		Exterior Tree and Plant Uplight Accent	8-1/8" Diameter x 8-3/4" D Die-Cast Aluminum Housing with Stainless Steel Faceplate In-Grade Symmetric Uplight	BEGA: Series 77913	8.2 Watts	470 lm
L6		15 Degree Beam Pattern for Promenade Area Lighting	2.6" Square x 8.9" L Top of Mullion Surface Mounted Aimable Luminaires for Promenade Area Accent Lighting - All shielded with for Dark Sky Compliance with Honeycomb Glare Reducing Accessory	EcoSense: Rise Series F080 Single	11.5 Watts	744 lm
L6A		20 Degree Beam Spread for Seating Area Lighting	2.6" Square x 8.9" L Top of Mullion Surface Mounted Aimable Luminaires for Area Accent Lighting - All shielded for Dark Sky Compliance with Elliptical Beam Lens Accessory	EcoSense: Rise Series F080 Single	4 Watts	300 lm
L7		Elevated Terrace (Second Floor - if Shown) Circulation Spaces	7.8" W x 6.8" D x 39.3" H Extruded and Die Cast Aluminum Landscape Bollard (Where Shown)	Ligman: Prague 2 Medium Series	14 Watts	1660 lm
L8		Canopy frame integrated downlight	3" Diameter Surface Mounted Wet Location Downlight with Remote Driver	DesignPlan: EYE 80 Surface Version Series	5 Watts	400 lm
L9	Not Used					
L10		Individual Residential Unit Balcony Uplighting	2.56" H x 12.20" L x 2.17" D Die Cast Aluminum Inverted Wall light for Indirect Patio Ceiling Accent Light	DesignPlan: Step Linear 07 Series	10.5 Watts	324 lm
L11		Flush Mounted Landscape Step Light	2.36" Square Truncated Pyramid Flush Mounted Landscape Step/Pathway Single Downlight	Design Plan: Beam 2.7 LED Wall Mount IP67 Series	2 Watts	70 lm
L12		Exterior Parking Level Wall on John Nolen Dr.	Nominal 12"D x 4.5"W x 4'H Custom Fabricated Linear Wall Bracket with 100% light directed towards wall in an indirect light distribution	Custom Fabricated luminaire.	10 Watts	400 lm
L13		Wilson Promenade Entrance Ceiling	5" Square x 2.52" Deep Recessed Ceiling Area Light within Decorative Ceiling System	Design Plan: QUBY IP54 Series	2 Watts	200 lm
L14		Catenary Suspended Accent Lighting	Low Voltage 6" Dia. x 7.67" H Dark Sky Shielded catenary strung fixtures on 48" centers in lengths indicated on lighting plans	California Accent Lighting Inc. (CAAL) Series: M12000-CACA-48-3.0K-GSFL-DM-WET-BK-100"	3 Watts	256 lm
L15 (A, B, C)		Various Locations Requiring Additional Downlighting	3.2", 4.9", 7.9" Diameter Recessed Downlights where indicated on Lighting Plans.	DesignPlan: EYE Recessed LED Downlight Series	5 Watts 12Watts 20 Watts	400 lm 950 lm 1400 lm
L16		Bench Integrated Linear Encapsulated LED Channel	0.7" x 0.7" Channel with Encapsulated LED Neon Strip in Lengths indicated on Lighting Plans	PureEdge: Channel Neon Series	1.5 Watts/ft.	50 lm/ft.
L17		Pool Partial Perimeter Outline with Submersible Neon Strip	0.7" x 0.7" Channel with Encapsulated LED Neon Strip in Lengths indicated on Lighting Plans	PureEdge: Channel Neon Series	5 Watts/ft.	212 lm/ft.
L18		Geometric Luminous Shapes Recessed into Grade Substance	Triangular IP67 Rated LED Luminous Grade Recessed Forms in Patterns Designed by Architect and Landscape Architect	DesignPlan: MIN/MAX Triangolo In-Grade Series	9.6 - 43 Watts per Segment - Pattern Dependent	79 lm - 412 lm per segment - Pattern Dependent
L19		OPTIONAL Pergola Downlight for Seating Area	Optional Luminaire System to the Type L14 Catenary System	PureEdge: Catenary Saber Neon Series	4.4 Watts/ft.	312 lm/ft.
L20		Surface Mounted Light on Grill Counter Top	4 7/8" W x 21" H x 1" Square Depth Surface Counter Mounted Area Light	Rejuvenation: Boyleston LED Path Light Series	2 Watts	125 lm
L20 Alternate		Surface Mounted Light on Grill Counter Top	4" W x 5.7" D x 19.6" H with 2" x 4" Footprint on Counter Top - Dimmable Task Light	Ligman: Prague 1 Small Series	8 Watts	855 lm
L21		Floor Mounted Exterior Rated Arc Light	67" W x 67.25" H x 18" D Fixture with 18.11" W x 11.4" H Shade Wet Location Rated Varnished Fiberglass Arc Floor Lamp with Varnished Fiber Shade	Foscarini: Twiggy Grid Outdoor Floor Lamps Series	18 Watts	1200 lm

CONNECTED LIGHTING LOAD FOR ILLUMINATING BUILDINGS AND STRUCTURE



LOAD CALCULATION SCHEDULE

LPD Calculations for the Building Facade Lighting

Luminaire Type	Location used on the project	Wattage	Quantity	Total Wattage
L4	First Floor Textured Stone Walls	18	39	702
L6	Terraces, Entrance, Promenade, Outdoor Seating & Parking Entrance	11.5	44	506
L8	Building Entrance	5	3	15
L10	Residence Balconies	10.5	110	1155
L12	Random Array of Accent Wall Fixtures at Lakeside	10	20	200
L13	Retail Entrance Canopy, Under Building Canopy, Casual Seating Canopy	2	92	184
			Project Total	2762

PROJECT:

TYPE:

CATALOG #: MER-

PROFILE

LIGHT SOURCE	3.5 W/FT, 9.0 W/FT, 15.0 W/FT
OPTICS	7° X 60°, 10° X 10°, 10° X 60°, 10° X 90°, 20° X 20°, 20° X 60°, 40° X 40°, 40° X 60°, 40° X 90°, 60° X 60°, 90° X 90° 80° X 80°, ASY
CCT	27K, 30K, 35K, 40K, RED, GREEN, BLUE, AMBER
CRI	82 (OPTIONAL 90+)
PERFORMANCE	UP TO 117530 PEAK CANDELA
VOLTAGE	UNIVERSAL 120-277 V
POWER	REMOTE POWER SUPPLY
CONTROL	0-10V, DMX, LUTRON HI-LUME
DIMENSIONS	1.85" X 2.00"
HOUSING	PRECISION EXTRUDED ALUMINUM
LENS	HIGH DENSITY TEMPERED GLASS
FINISH	HIGH DURABILITY POWDER COATING
OPERATING TEMP	-20° C TO 50° C
WARRANTY	5-YEAR LIMITED
LUMEN MAINTENANCE	75,000 HOURS
CERTIFICATION	ETL AND cETL FOR IP67, IK07, 5G/3G OPTIONS

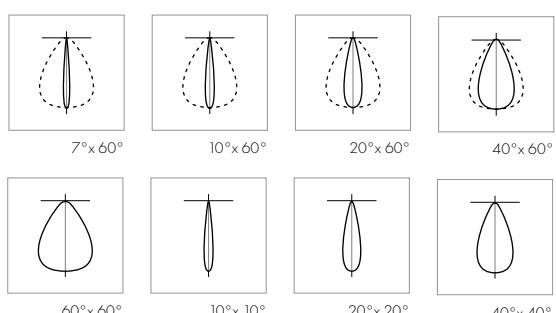


STANDARD FINISHES



OPTICS

Not all available optics shown



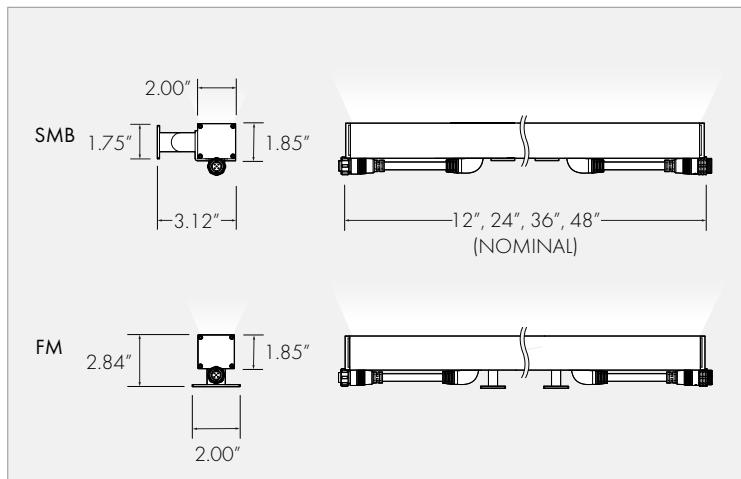
PERFORMANCE SAMPLE

Go to Performance Data >

40K, HO, 48.00°	10°X 10°	10°X 60°	20°X 20°	80°X 80°	100°
LUMENS	6316	5417	6475	6161	6459
CANDELA	117530	19943	52385	3960	2739
EFFICACY	91.2 LM/W	77.3 LM/W	93.3 LM/W	88.8 LM/W	94.4 LM/W

PROFILE

Go to Fixture Dimensions >



OPTIONS

* Shown with white diffusing lens



PROJECT:

TYPE:

CATALOG #: MER-

SPECIFICATION

MER

1 2 3 4

5

6

7

8

9

Separate options with dashes

1	2	3	4
1 FIXTURE	MEDLEY EXTERIOR REMOTE	MER	
2	WATTAGE		
LOW OUTPUT	LO		
3.5 W/FT			
MEDIUM OUTPUT	MO		
9.0 W/FT			
HIGH OUTPUT	HO		
15.0 W/FT			
3	CCT		
2700K	27K		
3000K	30K		
3500K	35K		
4000K	40K		
RED	R		
GREEN	G		
BLUE	B		
AMBER	A		

4	OPTIC	7
7° X 60°	760	
10° X 10°	1010	
10° X 10° optic is intended for a 6.00" fixture setback from the surface		
10° X 60°	1060	
10° X 90°	1090	
20° X 20°	2020	
20° X 60°	2060	
20° X 90°	2090	
40° X 40°	4040	
40° X 60°	4060	
40° X 90°	4090	
60° X 60°	6060	
60° X 90°	6090	
80° X 80°	8080	
100° X 100°	100	
ASYMMETRIC DIRECT	AD	
Direct = down-light		
Asymmetric distribution is intended for a wall height of 10.0 FT to 12.0 FT with the fixture setback 18.00" from the wall		
ASYMMETRIC INDIRECT	AI	
Indirect = up-light		
Asymmetric distribution is intended for a wall height of 10.0 FT to 12.0 FT with the fixture setback 18.00" from the wall		

5	MOUNTING	8
SURFACE MOUNT	SM	TEXTURED WHITE
5G Ansi C136.31 rated		TEXTURED BLACK
GROUND MOUNT	GM	TEXTURED BRONZE
EXTENDED ARM	EA-X	TEXTURED LIGHT BRONZE
X = extended arm length specify 6", 12" or 18"		TEXTURED GRAY
6.00" arm is 3G Ansi C136.3 rated		TEXTURED SANDSTONE
EXTENDED ARM, BACK	EAB-X	ANODIZED ALUMINUM
X = extended arm length specify 6", 12" or 18"		Includes CRF finish
SURFACE BACK MOUNT	SMB	CUSTOM COLOR
FIXED MOUNT	FM	Contact factory for custom color - additional charges will apply
Not intended for continuous run applications		
END MOUNT	EM	
Not intended for continuous run applications		
STAKE MOUNT	STM	

6	FIXTURE LENGTH	9
12"	12	OPTIONS
24"	24	HIGH CRI, 90+
36"	36	LOUVER
48"	48	Field installable snooted louver LLF of 10% - 15% depending on color
		VISOR
		Field installable visored louver LLF of 10% - 15% depending on color
		DIRECT VIEW DOME LENS
		LLF of 30% Field installable Only available with 100° X 100°

7	CONTROL OPTIONS	8
NO DIMMING	NO	WHITE LENS
0-10V DIMMING (1%)	DIM	WL LLF of 30% Only available with 100° X 100°
DMX DIMMING	DMX	CONCEALED WIRING
DMX controls are required and must be ordered separately		CW Not available with 12" fixtures
DMX Programming Kit required - see below		
LUTRON	L3DOE	WHITE CABLING
L3DOE - Hi-lume Premier 0.1% EcoSystem 24V constant voltage LED driver with Soft-on, Fade to Black dimming technology		WC White cabling is standard with textured white finish
All power supplies must be ordered separately- see below for details		CORROSION RES. FINISH
		CRF Recommended for coastal or extreme exterior environments

POWER SUPPLY & CONTROL ORDER OPTIONS

Go to Cable Guide >

REMOTE POWER SUPPLY OPTIONS - IP67 (120V-277V) - REQUIRED	
CONTRA EXTERIOR LOW POWER, 96W OUTPUT (NO DIM, 0-10V, DMX)	CEL
CONTRA EXTERIOR STANDARD POWER, 240W OUTPUT (NO DIM, 0-10V, DMX)	CES
CONTRA EXTERIOR HIGH POWER, (2)-240W OUTPUT (NO DIM, 0-10V, DMX)	CEH
CONTRA EXTERIOR STANDARD POWER, 96W OUTPUT (LUTRON L3DOE)	CESLU
Above wattage is based on 75% of the Power Supply's total wattage capacity	
See page 3 for maximum fixture per power supply.	
For specific and case by case requirements, please contact factory for assistance	

DMX DISTRIBUTION & PROGRAMMING KIT - REQUIRED FOR DMX DIMMING	
DMX/RDM DISTRIBUTION KIT (4 OUTPUTS) - IP67	CDS-RDM
DMX/RDM Distribution Kit consists of four outputs	
Each output is limited to (1) run per output - up to 32 fixtures max	
Four terminators are included for end of line termination	

EXTERIOR LEADER CABLE - REQUIRED

5.0 FT LEADER CABLE	LC-5
A leader cable is required for each single fixture and for each fixture run for connection from the first fixture to the i-box	

Black cables are standard unless White Cabling (WC) option or Textured White (TW) fixture finish is selected

EXTERIOR JUMPER CABLES - OPTIONAL

1.0 FT JUMPER CABLE	JC-1
2.0 FT JUMPER CABLE	JC-2
5.0 FT JUMPER CABLE	JC-5
10.0 FT JUMPER CABLE	JC-10
25.0 FT JUMPER CABLE	JC-25

Required if fixtures are not mounted in an end-to-end continuous manner and for line voltage only

Black cables are standard unless White Cabling (WC) option or Textured White (TW) fixture finish is selected

PROJECT:

TYPE:

CATALOG #: MER-

PERFORMANCE

Nominal lengths

		LOW OUTPUT (3.5 W/FT)			MEDIUM OUTPUT (9.0 W/FT)			HIGH OUTPUT (15.0 W/FT)		
CCT AND LENGTH	OPTIC	DELIVERED LUMENS	LUMINARE EFFICACY	PEAK CANDELA	DELIVERED LUMENS	LUMINARE EFFICACY	PEAK CANDELA	DELIVERED LUMENS	LUMINARE EFFICACY	PEAK CANDELA
4000K 24"	7° X 60°	998 LM	107.0 LM/W	3662	1685 LM	110.0 LM/W	6189	3366 LM	98.0 LM/W	12363
	10° X 10°	932 LM	100.5 LM/W	17011	1566 LM	103.0 LM/W	28686	3158 LM	91.2 LM/W	58765
	10° X 60°	804 LM	86.6 LM/W	2905	1348 LM	88.4 LM/W	4871	2709 LM	77.3 LM/W	9972
	20° X 20°	948 LM	102.1 LM/W	7658	1601 LM	102.4 LM/W	12983	3238 LM	93.3 LM/W	26193
	20° X 60°	862 LM	92.8 LM/W	1893	1451 LM	96.2 LM/W	3207	2914 LM	84.6 LM/W	6379
	40° X 40°	1001 LM	108.0 LM/W	1395	1688 LM	110.0 LM/W	2338	3392 LM	98.8 LM/W	4733
	40° X 60°	896 LM	96.7 LM/W	724	1497 LM	98.6 LM/W	1211	3039 LM	88.1 LM/W	2470
	60° X 60°	993 LM	107.1 LM/W	882	1666 LM	109.3 LM/W	1485	3354 LM	97.7 LM/W	2999
	80° X 80°	912 LM	98.2 LM/W	585	1525 LM	100.1 LM/W	976	3081 LM	88.8 LM/W	1980
	100° X 100°	620 LM	86.8 LM/W	263	1964 LM	93.3 LM/W	829	3230 LM	94.4 LM/W	1370
4000K 36"	ASY	888 LM	96.3 LM/W	3134	1473 LM	97.8 LM/W	5199	2890 LM	88.2 LM/W	9369
	7° X 60°	1496 LM	107.0 LM/W	5492	2527 LM	110.0 LM/W	9283	5048 LM	98.0 LM/W	18544
	10° X 10°	1398 LM	100.5 LM/W	25516	2349 LM	103.0 LM/W	43029	4737 LM	91.2 LM/W	88148
	10° X 60°	1205 LM	86.6 LM/W	4357	2022 LM	88.4 LM/W	7306	4063 LM	77.3 LM/W	14957
	20° X 20°	1421 LM	102.1 LM/W	11486	2402 LM	102.4 LM/W	19474	4856 LM	93.3 LM/W	39289
	20° X 60°	1292 LM	92.8 LM/W	2840	2177 LM	96.2 LM/W	4810	4371 LM	84.6 LM/W	9569
	40° X 40°	1502 LM	108.0 LM/W	2093	2531 LM	111.0 LM/W	3506	5088 LM	98.8 LM/W	7100
	40° X 60°	1344 LM	96.7 LM/W	1086	2245 LM	98.6 LM/W	1817	4559 LM	88.1 LM/W	3704
	60° X 60°	1489 LM	107.1 LM/W	1322	2499 LM	109.3 LM/W	2228	5031 LM	97.7 LM/W	4499
	80° X 80°	1368 LM	98.2 LM/W	877	2287 LM	100.1 LM/W	1464	4621 LM	88.8 LM/W	2970
4000K 48"	100° X 100°	929 LM	86.8 LM/W	394	2946 LM	93.3 LM/W	1244	4844 LM	94.4 LM/W	2054
	ASY	1332 LM	96.3 LM/W	4700	2209 LM	97.8 LM/W	7798	4335 LM	88.2 LM/W	14053
	7° X 60°	1995 LM	107.0 LM/W	7323	3369 LM	110.0 LM/W	12377	6731 LM	98.0 LM/W	24725
	10° X 10°	1864 LM	100.5 LM/W	34021	3132 LM	103.0 LM/W	57372	6316 LM	91.2 LM/W	117530
	10° X 60°	1607 LM	86.6 LM/W	5809	2696 LM	88.4 LM/W	9741	5417 LM	77.3 LM/W	19943
	20° X 20°	1895 LM	102.1 LM/W	15315	3202 LM	102.4 LM/W	25965	6475 LM	93.3 LM/W	52385
	20° X 60°	1723 LM	92.8 LM/W	3786	2902 LM	96.2 LM/W	6413	5828 LM	84.6 LM/W	12758
	40° X 40°	2002 LM	108.0 LM/W	2790	3375 LM	110.7 LM/W	4675	6784 LM	98.8 LM/W	9466
	40° X 60°	1792 LM	96.7 LM/W	1448	2993 LM	98.6 LM/W	2422	6078 LM	88.1 LM/W	4939
	60° X 60°	1985 LM	107.1 LM/W	1763	3332 LM	109.3 LM/W	2970	6708 LM	97.7 LM/W	5998
4000K 60"	80° X 80°	1824 LM	98.2 LM/W	1169	3049 LM	100.1 LM/W	1952	6161 LM	88.8 LM/W	3960
	100° X 100°	1239 LM	86.8 LM/W	525	3928 LM	93.3 LM/W	1658	6459 LM	94.4 LM/W	2739
	ASY	1776 LM	96.3 LM/W	6267	2945 LM	97.8 LM/W	10397	5780 LM	88.2 LM/W	18787

PROJECT:

TYPE:

CATALOG #: MER-

WIRING

MAXIMUM FIXTURES PER POWER SUPPLY (CIRCUITS MAY NOT BE LOADED OVER 10 AMPS)

Data provided is based on 75% of the Power Supply's total wattage capacity

LOW OUTPUT (3.5 W/FT)			MEDIUM OUTPUT (9.0 W/FT)			HIGH OUTPUT (15.0 W/FT)			
NOMINAL FIXTURE LENGTH	CONTRA STAND. POWER 96W OUTPUT	CONTRA HIGH POWER 240W OUTPUT	CONTRA DUAL HIGH POWER (2)-240W	CONTRA STAND. POWER 96W OUTPUT	CONTRA HIGH POWER 240W OUTPUT	CONTRA DUAL HIGH POWER (2)-240W	CONTRA STAND. POWER 96W OUTPUT	CONTRA HIGH POWER 240W OUTPUT	CONTRA DUAL HIGH POWER (2)-240W
12"	27	68	136	10	26	52	5	14	28
24"	13	34	68	5	13	26	2	7	14
36"	9	23	46	3	8	16	2	4	8
48"	6	17	34	2	6	12	1	3	6

REMOTE DISTANCE LIMITS

Noncompliance with recommended remote wiring distances may void warranty

WIRE GAUGE	MAX DISTANCE
20 AWG	25.0 FT
18 AWG	30.0 FT
16 AWG	40.0 FT
14 AWG	60.0 FT
12 AWG	100.0 FT

PROJECT:

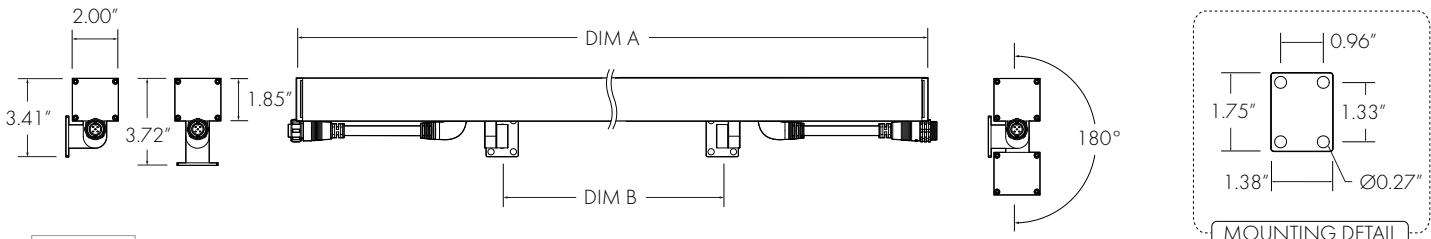
TYPE:

CATALOG #: MER-

DIMENSIONS

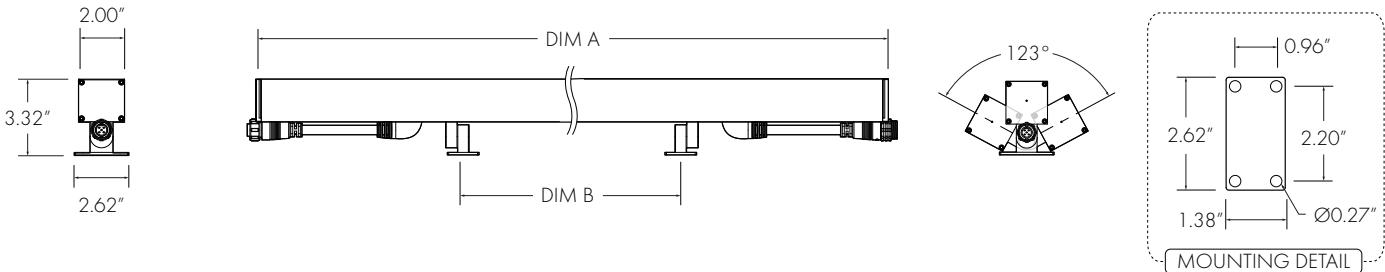
	12"	24"	36"	48"
DIM A		12.10"	23.85"	35.60"
DIM B	9.28"	4.00" MIN | 6.00" MAX	12.00" MIN | 18.00" MAX	18.00" MIN | 30.00" MAX

SURFACE MOUNT (SM)

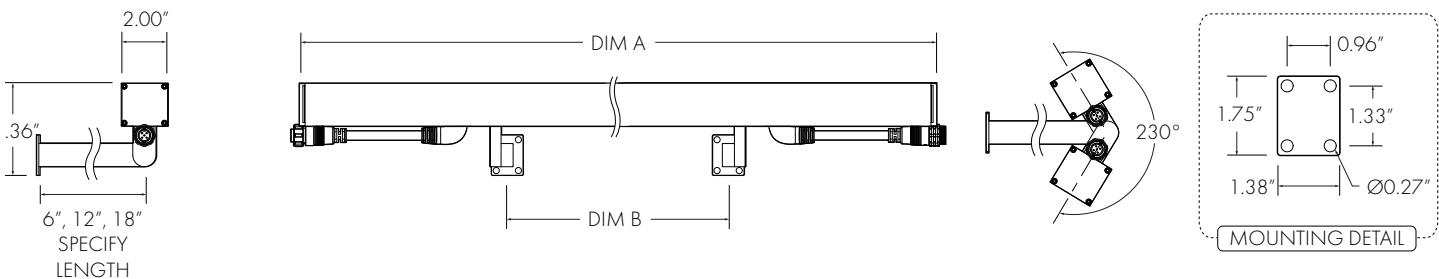


5G
ANSI C136.31

GROUND MOUNT (GM)



EXTENDED ARM (EA-X)



3G
ANSI C136.3

3G RATED WITH 6.00" ARM

PROJECT:

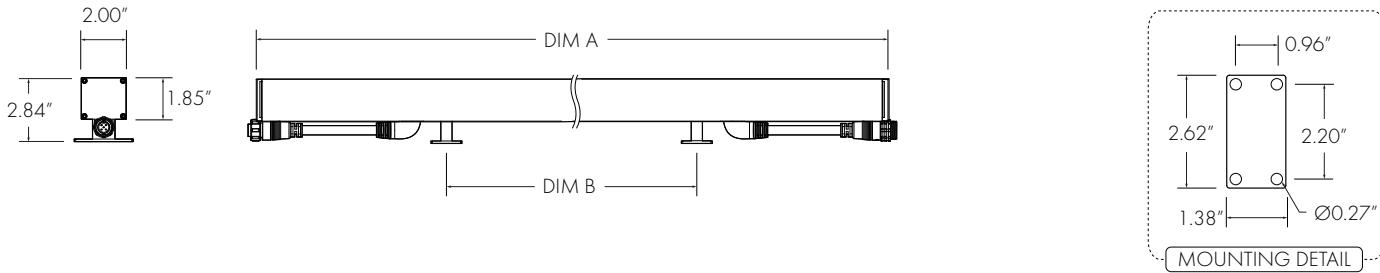
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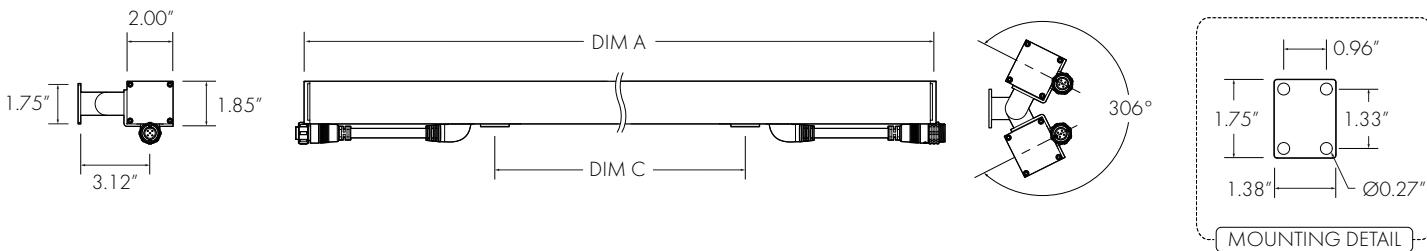
DIMENSIONS

	12"	24"	36"	48"
DIM A		12.10"	23.85"	35.60"
DIM B	9.28"	4.00" MIN 6.00" MAX	12.00" MIN 18.00" MAX	18.00" MIN 30.00" MAX

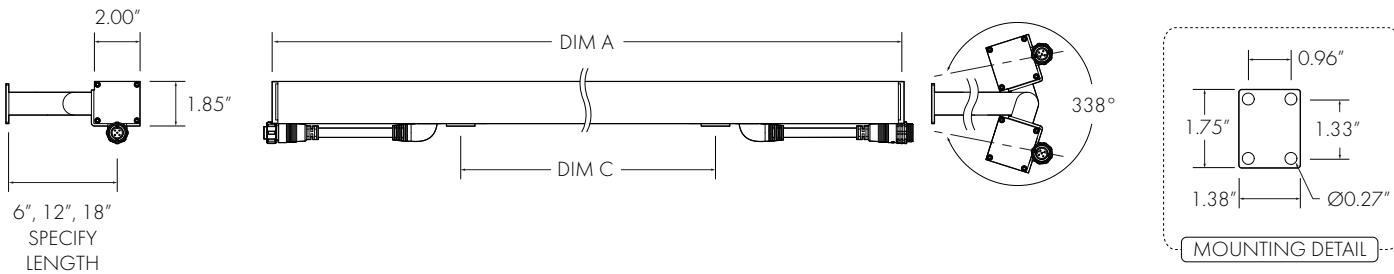
FIXED MOUNT (FM)



SURFACE, BACK MOUNT (SMB)



EXTENDED ARM, BACK MOUNT (EAB-X)



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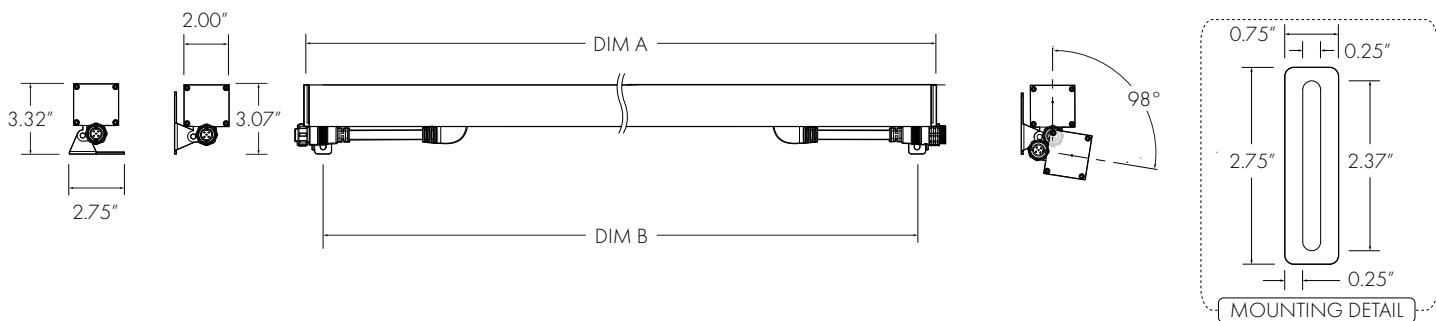
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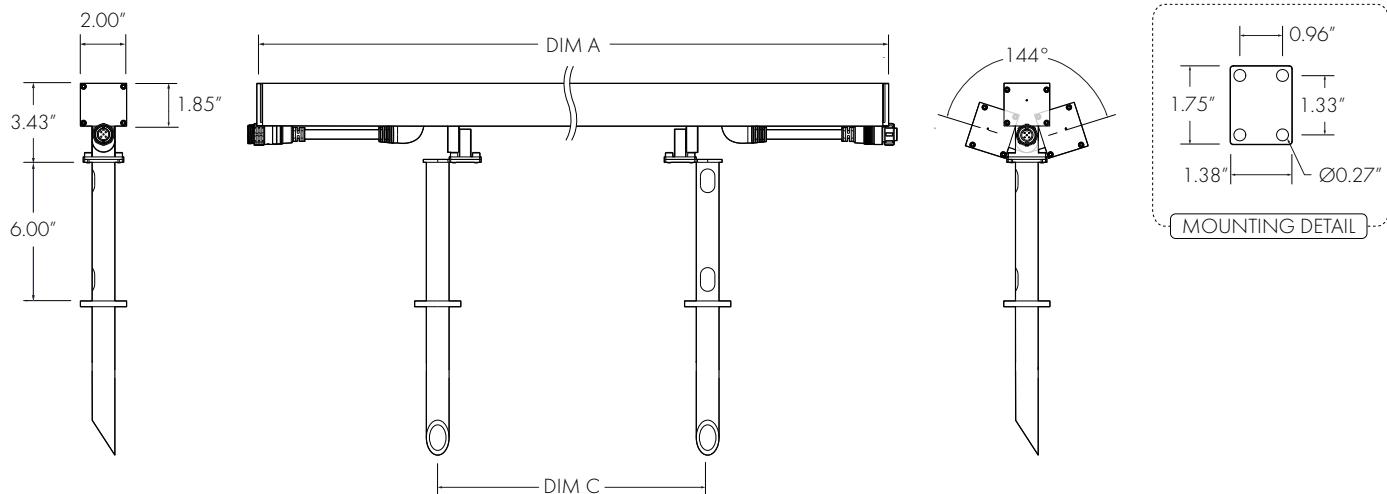
DIMENSIONS

	12.00"	24.00"	36.00"	48.00"
DIM A	12.10"	23.85"	35.60"	47.35"
DIM B	11.65	22.31"	34.06"	45.81"
DIM C	10.56"	4.00" MIN 6.00" MAX	12.00" MIN 18.00" MAX	18.00" MIN 30.00" MAX

END MOUNT (EM)



STAKE MOUNT (STM)



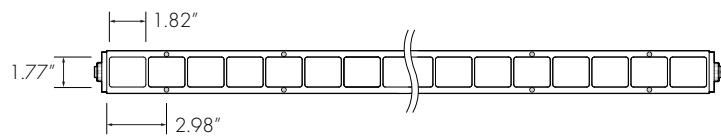
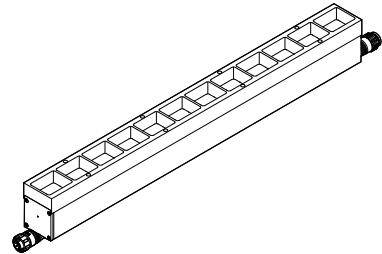
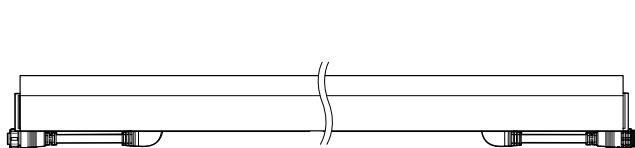
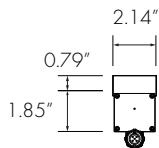
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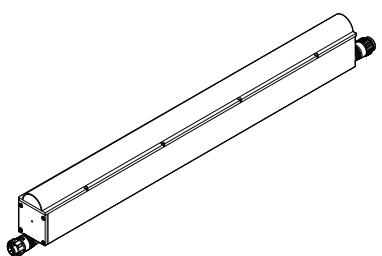
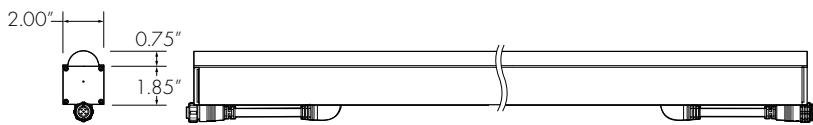
CATALOG #: MER-

ACCESSORIES

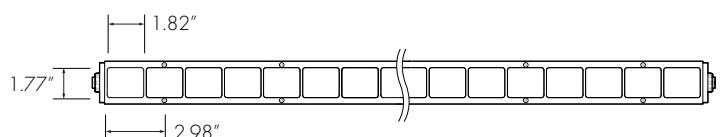
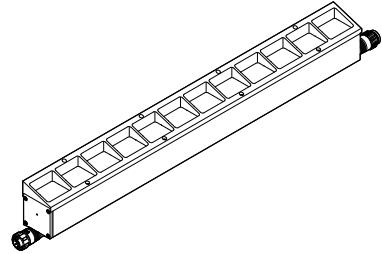
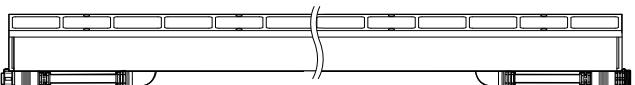
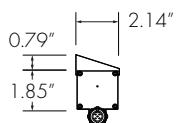
LOUVER (LV)



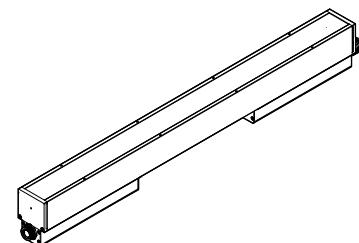
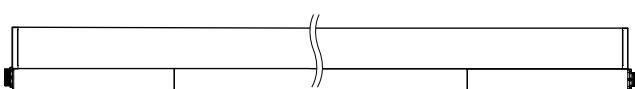
DIRECT VIEW LENS (DV)



VISOR (VS)



CONCEALED WIRING (CW)

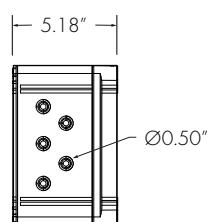
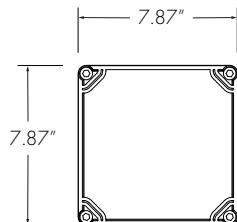
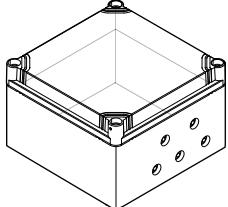


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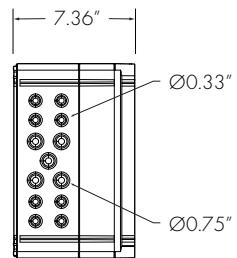
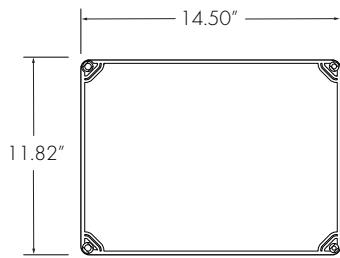
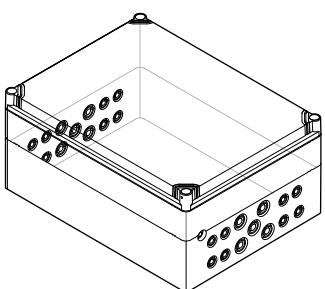
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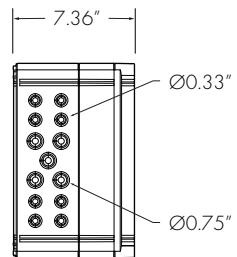
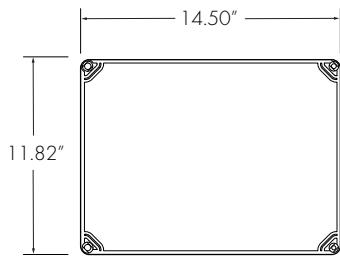
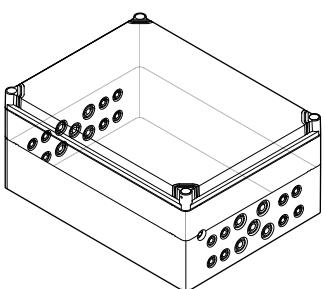
CONTRA EXTERIOR LOW POWER SUPPLY - CEL (0-10V DIMMING, DMX DIMMING)



CONTRA EXTERIOR STANDARD AND HIGH POWER SUPPLY - CES / CEH (0-10V DIMMING, DMX DIMMING)



CONTRA EXTERIOR LOW POWER SUPPLY, LUTRON L3DOE- CELU (HI-LUME PREMIER 0.1% ECOSYSTEM)



Drive-over in-ground floodlights · STAINLESS STEEL for installation in pre-cored holes

Enclosure: Heavy gauge stainless steel. Provided with two external clamps that secure the luminaire in a pre-cored hole prepared by the customer.

Trim Ring: Heavy gauge, machined stainless steel secured to the inner housing with captive, stainless steel fasteners. Trim is sealed in place using molded, one piece high temperature silicone gasket. Glass is tempered, $\frac{1}{2}$ " thick machined flush to trim ring.

Electrical: 10.9W LED luminaire, 13 total system watts, -30°C start temperature. Integral 120V through 277V electronic LED driver, 0-10V dimming. LED module(s) are available from factory for easy replacement. Standard LED color temperature is 4000K with an 85 CRI. Available in 3000K (85 CRI); add suffix K3 to order. Pure anodized aluminum reflector (non-adjustable). Inner housing pre-wired with nine (9) feet of 18/3 water stopper cable, cable clamp, and waterproof cable gland entry into housing. A separate weatherproof wiring box for power supply must be provided (by contractor).

Note: LEDs supplied with luminaire. Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

Finish: Machined #4 brushed stainless steel. Custom colors are not available.

Temperature caution: The column 'T' in this chart indicates the temperature in degrees Celsius which is reached on the center of the glass surface during operation. Surface temperatures are for exterior applications, for interior applications add 10°C to temperatures shown.

Note: These luminaires are designed to bear pressure loads up to 4400 lbs. from vehicles with pneumatic tires. The luminaires must not be used for traffic lanes where they are subject to horizontal pressure from vehicles braking, accelerating and changing direction.

CSA certified to U.S. and Canadian standards, suitable for wet locations. Protection class IP68 10m

Weight: 6.4 lbs.

Luminaire Lumens: 819



Type:
BEGA Product:
Project:
Voltage:
Color:
Options:
Modified:



Symmetrical floodlights · clear safety glass

Lamp	β	T	A	B	C
77913 10.5W LED	21°	30°	8	7 $\frac{1}{8}$	6 $\frac{1}{2}$

β =Beam angle

DATE	PROJECT	FIRM	TYPE
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RISE IS A SYSTEM OF BEAUTIFULLY DESIGNED OUTDOOR RATED LUMINAIRES THAT PROVIDE EFFICIENT AND POWERFUL LIGHT USING THE LATEST IN LED TECHNOLOGY. RISE F080 SINGLE IS A POWERFUL AND COMPACT LED LIGHT FIXTURE, DELIVERING UP TO 1170 LUMENS, THAT CAN BE USED IN SPOT, ACCENT, LANDSCAPE AND FLOODLIGHT APPLICATIONS. ITS UNIQUE MACRO™ LOCK FEATURE ALLOWS FOR FULL 180 DEGREE TILT AND 360 DEGREE PAN AIMABILITY USING ONLY ONE TWIST.

FEATURES :

- POWERFUL CBCP
- EXTREMELY COMPACT
- POWERFUL OUTPUT UP TO 1170 LUMENS
- MACRO™ LOCK - 180° TILT AND 360° PAN
- 12 UNIQUE BEAM ANGLES
- MULTIVOLT (110 V-277 V)
- 8 CCTS: 2200K THROUGH 6500K
- 80+ AND 90+ CRI
- DIMMABLE TO 5%
- IP66 RATED



Fixture Model	Fixture Config.	Power/ Lumen Output*	CCT/ Color	CRI	Beam Angle	Finishes	Accessories	Wiring and Mounting
F080	1S - Single Head	LO - Low Output MO - Medium Output HO - High Output *2200K and 2500K not available in 40°, 60°, 70° and 90°	22 - 2200K 25 - 2500K 27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K 50 - 5000K 65 - 6500K RD - Red GR - Green BL - Blue AM - Amber	8 - 80 9 - 90* X - For RD, GR, BL, AM *90 CRI not available in 2200K, 2500K, 5000K, and 6500K	05 - Laser Spot (5°) 10 - Very Narrow Spot (10°) 15 - Narrow Spot (15°) 20 - Spot (20°) 40 - Flood (40°) 60 - Medium Flood (60°) 70 - Wide Flood (70°) 90 - Very Wide Flood (90°) E1 - Elliptical 1 (15°x60°) E2 - Elliptical 2 (30°x60°) E3 - Elliptical 3 (60°x15°) E4 - Elliptical 4 (60°x30°)	K - Black Z - Bronze S - Silver W - White C - Custom* *Provide RAL #	X - No Accessory H - Half Snoot F - Full Snoot Will ship as X if not specified	A - 19" Flying Leads - Internal Cable IC; Bottom Exit; 1/2" NPT ; UL/CE Listed B* - 10' External Cable Side Exit; Surface Mount ; UL Listed C* - 10' External Cable Bottom Exit; Surface Mount - 1/2" NPT ; UL Listed D* - 10' External Cable Side Exit; Surface Mount ; CE Listed E* - 10' External Cable Bottom Exit; Surface Mount - 1/2" NPT; CE Listed *Will ship as A if not specified

EXAMPLE: F080-1S-LO-22-8-05-S-X-A

*See Photometry Chart for Lumen Data

Performance	Watts	Power	Lumen Output	Optic	Efficacy	CBCP
	4	Low Output	309	5°	77	22,017
	7.5	Medium Output	531	5°	71	37,812
	11.5	High Output	744	5°	65	52,991

ALL LUMEN DATA IS FROM 4000K 80CRI FIXTURES. PLEASE SEE PHOTOMETRY SPEC SHEET FOR ADDITIONAL LUMEN DATA.

Color Rendering Index

80+, 90+

Color Consistency

3-Step MacAdam Ellipse

Lumen Depreciation

Watts	L70 @ 25C	L70 @ 50C	L90 @ 25C	L90 @ 50C
LOW	>60,500* >(109,000)**	>60,500* >(109,000)**	>60,500* >(109,000)**	>60,500* >(109,000)**
MEDIUM	>60,500* >(109,000)**	>60,500* >(109,000)**	>60,500* >(109,000)**	>60,500* >(109,000)**
HIGH	>60,500* >(181,000)**	>36,300* >(69,800)**	>60,500* >(69,800)**	>33,200*

* ENERGY STAR REPORTED TESTING HOURS TO DATE. CALCULATIONS FOR LED FIXTURES ARE BASED ON MEASUREMENTS THAT COMPLY WITH IES LM-80 TESTING PROCEDURES AND IES TM-21 CALCULATOR
** ESTIMATED HOURS

NOTE: Information on this Spec Sheet is subject to change, please visit ecosenselighting.com/downloads/rise for the most updated information.

DATE	PROJECT	FIRM	TYPE
ELECTRICAL	WATTAGE POWER FACTOR THD OPERATING VOLTAGE DRIVER STARTUP TEMPERATURE OPERATING TEMPERATURE STORAGE TEMPERATURE	LOW OUTPUT = 4 W; MEDIUM OUTPUT = 7.5 W; HIGH OUTPUT = 11.5 W >0.9 for 120 V (HO, MO, LO), 230 V (HO, MO), 277 V (HO) <0.2 for 120 V (HO, MO, LO), 230 V (HO, MO), 277 V (HO) MULTIVOLT: 110-277 VAC, 50/60 Hz INTEGRAL TO FIXTURE; DE-RATED POWER AND SYNCHRONOUS START-UP AT FULL BRIGHTNESS -40 °F TO 122 °F (-40 °C TO 50 °C) -40 °F TO 122 °F (-40 °C TO 50 °C) -40 °F TO 176 °F (-40 °C TO 80 °C)	
CONTROL	DIMMING	110-277 VAC, ELV TYPE, REVERSE PHASE, TRAILING EDGE	
PHYSICAL	DIMENSIONS HOUSING/LENS WEIGHT ENVIRONMENT MOUNTING OPTIONS	W 2.49" x H 8.13" x L 6.97" ; (63.33 mm x 206.45 mm x 177.05 mm) EXTRUDED ALUMINUM; UV STABILIZED POLYCARBONATE; STAINLESS STEEL FASTENERS 1.25 LBS / 0.56 KG OUTDOOR • UL CERTIFIED FOR WET LOCATIONS IP66 IMPACT RATED TO IK10 MEETS 3G ANSI C136.31 VIBRATION STANDARD FOR BRIDGE APPLICATIONS A - FLYING LEADS - INTERNAL CABLE IC; BOTTOM EXIT; 1/2" NPT ; UL / CE RATED B - EXTERNAL CABLE SIDE EXIT; SURFACE MOUNT ; UL LISTED SURFACE MOUNT PLATE INCLUDED C - EXTERNAL CABLE BOTTOM EXIT; 1/2" NPT ; UL LISTED SURFACE MOUNT PLATE INCLUDED D - EXTERNAL CABLE SIDE EXIT; SURFACE MOUNT ; CE LISTED SURFACE MOUNT PLATE INCLUDED E - EXTERNAL CABLE BOTTOM EXIT; SURFACE MOUNT ; CE LISTED SURFACE MOUNT PLATE INCLUDED	
	WIRING TOOLS WIND LOAD (EPA) CORROSION RESISTANT	LENGTH OF FLYING LEADS 19" (482.6 mm) LENGTH OF EXTERNAL CABLE 10' (3.05 m) 2.5 mm HEX KEY AND PHILLIPS #0 SCREWDRIVER FOR INTERCHANGEABLE LENS + SNOOTS 4 mm HEX KEY FOR AIMING 5 mm HEX KEY FOR MAIN TILT ARM EFFECTIVE PROJECTED AREA 0.14 ft ² RISE HAS A HIGH-PERFORMING, CORROSION-RESISTANT FINISH THAT USES HIGH DURABILITY TRIGLYCIDYL ISOCYANURATE (TGIC) POWDER COATINGS SPECIFICALLY DESIGNED FOR NATATORIUMS AND EXTERIOR WEATHER EXPOSURE. THIS FINISH HAS BEEN TESTED AND APPROVED TO MARINE GRADE CORROSION RESISTANCE STANDARD IN UL1598A, ASTM B117 SALT FOG TEST FOR 200 HOURS.	

Fixture Rating & Certifications	CE, UL CERTIFIED RoHS COMPLIANT, IK10	   IK10
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LIMITED WARRANTY 5 YEARS

0-10V CONTROL OPTIONS100-120 VAC / 277 VAC Linear Dimming Control Module 0-10 V - Plenum Rated LDCM-PL-120-277-010V-GR
All products come standard with ELV dimming capabilities. 0-10V Control options required for operation at 0-10V.**OPTIONAL ACCESSORIES****Snoots**Half Snoot, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom) F080-H-(K,Z,S,W,C)
Full Snoot, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom) F080-F-(K,Z,S,W,C)**Interchangeable Lens**

5 Degree	.....	F080-LENS-05
10 Degree	.....	F080-LENS-10
15 Degree	.....	F080-LENS-15
20 Degree	.....	F080-LENS-20
40 Degree	.....	F080-LENS-40
60 Degree	.....	F080-LENS-60
70 Degree	.....	F080-LENS-70
90 Degree	.....	F080-LENS-90
15x60 or 60x15 Degree	.....	F080-LENS-E1E3
30x60 or 60x30 Degree	.....	F080-LENS-E2E4
Full Set of Beam Angle Lens Degree (5, 10, 15, 20, 40, 60, 70, 90, 15X60 or 60X15, 30X60 or 60X30)	.....	F080-LENS-FULLSET

NOTE: Information on this Spec Sheet is subject to change, please visit ecosenselighting.com/downloads/rise for the most updated information.

DATE	PROJECT	FIRM	TYPE
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Honeycomb Louver

Honeycomb Louver F080..... F080-LV-HComb

Canopy Plate (Not for use with wire Option B - External Cable Side Exit)

RISE Canopy Plate (K=Black, Z=Bronze, S=Silver, W=White, C=Custom) RISE-CANOPY-04-(K,Z,S,W,C)

Color Filters

Red F080-FILTER-RED

Blue F080-FILTER-BLUE

Green F080-FILTER-GREEN

Amber F080-FILTER-AMBER

F080 Wall Mount Arm (for use only with Wiring Option C - External Cable Bottom Exit and not for use with multi-up fixtures)

Wall Mount Arm, 6 inch, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom) F080-WMA-06-(K,Z,S,W,C)

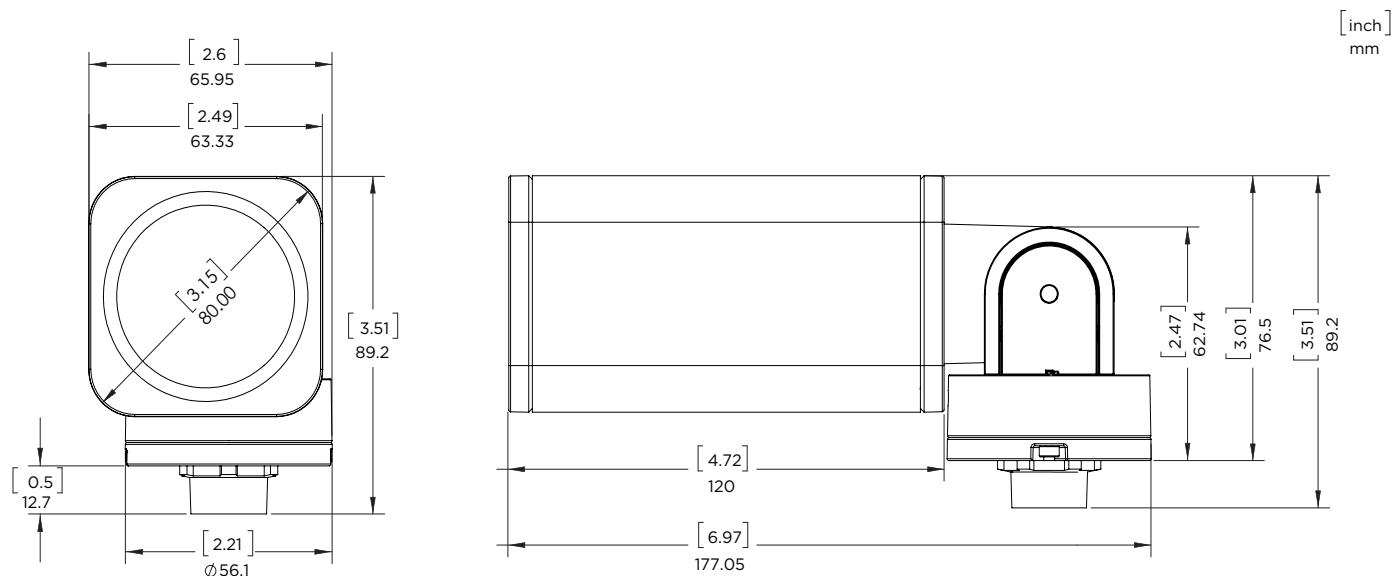
Wall Mount Arm, 12 inch, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom) F080-WMA-12-(K,Z,S,W,C)

Wall Mount Arm, 18 inch, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom) F080-WMA-18-(K,Z,S,W,C)

Wall Mount Arm, 24 inch, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom) F080-WMA-24-(K,Z,S,W,C)

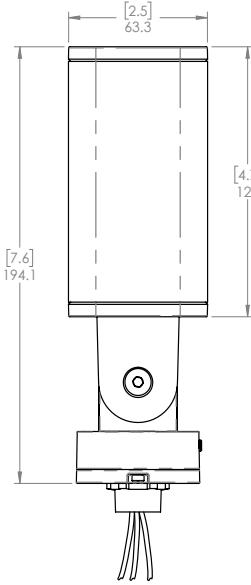
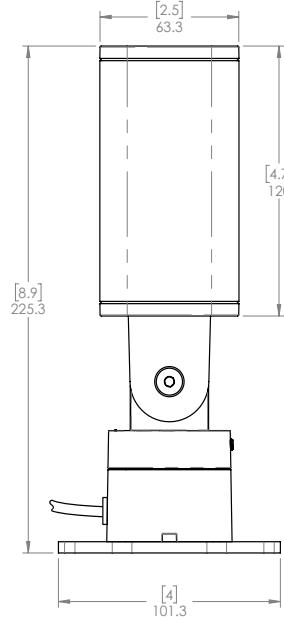
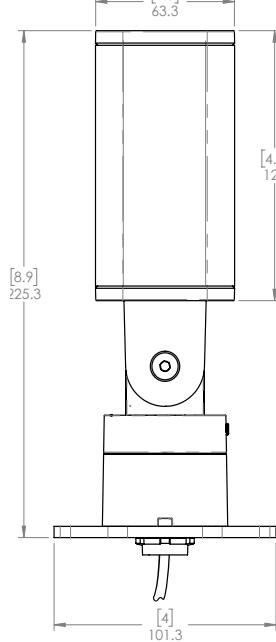
Ground Stake (for use only with Wiring Option C - External Cable Bottom Exit and not for use with multi-up fixtures)

Landscape Stake, 12 in (for use with F080 Single Head only, not for use with multi-fixture units) F080-LS-1S-STK-12

DIMENSIONSNOTE: Information on this Spec Sheet is subject to change, please visit ecosenselighting.com/downloads/rise for the most updated information.

WIRING GUIDE

RISE is an exterior rated (IP66) fixture that is available in three different wiring options:

Flying Leads - Internal Cable
(UL Listed or CE Listed)**External Cable Side Exit**
(UL Listed or CE Listed)**External Cable Bottom Exit**
(UL Listed or CE Listed)

- For use with standard junction boxes
- 1/2" NPT Taper, Cable Length is 19"
- Compatible with EcoSense Canopy junction Box Cover
- 18 AWG Stranded Copper Cable - 3 Conductors

- For use when external, exterior rated cable is required to run to remote junction box or mains
- Cable exits the side of the base
- Comes with a Surface Mount Plate, for mounting direct to surface
- Cable Length is 10' (3.05 m)

- For use when external, exterior rated cable is required to run to remote junction box or mains
- Cable exits the bottom for use with various accessories such as Wall Mount Arm and Ground Stake
- 1/2" NPT taper for mounting
- Comes with a Surface Mount Plate, for mounting direct to surface
- Cable Length is 10' (3.05 m)

NOTE: Information on this Spec Sheet is subject to change, please visit ecosenselighting.com/rise for the most updated information.

DATE	PROJECT	FIRM	TYPE
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RISE IS A SYSTEM OF BEAUTIFULLY DESIGNED OUTDOOR RATED LUMINAIRES THAT PROVIDE EFFICIENT AND POWERFUL LIGHT USING THE LATEST IN LED TECHNOLOGY. RISE F080 SINGLE IS A POWERFUL AND COMPACT LED LIGHT FIXTURE, DELIVERING UP TO 1170 LUMENS, THAT CAN BE USED IN SPOT, ACCENT, LANDSCAPE AND FLOODLIGHT APPLICATIONS. ITS UNIQUE MACRO™ LOCK FEATURE ALLOWS FOR FULL 180 DEGREE TILT AND 360 DEGREE PAN AIMABILITY USING ONLY ONE TWIST.

FEATURES :

- POWERFUL CBCP
- EXTREMELY COMPACT
- POWERFUL OUTPUT UP TO 1170 LUMENS
- MACRO™ LOCK - 180° TILT AND 360° PAN
- 12 UNIQUE BEAM ANGLES
- MULTIVOLT (110 V-277 V)
- 8 CCTS: 2200K THROUGH 6500K
- 80+ AND 90+ CRI
- DIMMABLE TO 5%
- IP66 RATED



Fixture Model	Fixture Config.	Power/ Lumen Output*	CCT/ Color	CRI	Beam Angle	Finishes	Accessories	Wiring and Mounting
F080	1S - Single Head	LO - Low Output MO - Medium Output HO - High Output *2200K and 2500K not available in 40°, 60°, 70° and 90°	22 - 2200K 25 - 2500K 27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K 50 - 5000K 65 - 6500K RD - Red GR - Green BL - Blue AM - Amber	8 - 80 9 - 90* X - For RD, GR, BL, AM *90 CRI not available in 2200K, 2500K, 5000K, and 6500K	05 - Laser Spot (5°) 10 - Very Narrow Spot (10°) 15 - Narrow Spot (15°) 20 - Spot (20°) 40 - Flood (40°) 60 - Medium Flood (60°) 70 - Wide Flood (70°) 90 - Very Wide Flood (90°) E1 - Elliptical 1 (15°x60°) E2 - Elliptical 2 (30°x60°) E3 - Elliptical 3 (60°x15°) E4 - Elliptical 4 (60°x30°)	K - Black Z - Bronze S - Silver W - White C - Custom* *Provide RAL #	X - No Accessory H - Half Snoot F - Full Snoot Will ship as X if not specified	A - 19" Flying Leads - Internal Cable IC; Bottom Exit; 1/2" NPT ; UL/CE Listed B* - 10' External Cable Side Exit; Surface Mount ; UL Listed C* - 10' External Cable Bottom Exit; Surface Mount - 1/2" NPT ; UL Listed D* - 10' External Cable Side Exit; Surface Mount ; CE Listed E* - 10' External Cable Bottom Exit; Surface Mount - 1/2" NPT; CE Listed *Will ship as A if not specified

EXAMPLE: F080-1S-LO-22-8-05-S-X-A

*See Photometry Chart for Lumen Data

Performance	Watts	Power	Lumen Output	Optic	Efficacy	CBCP
	4	Low Output	309	5°	77	22,017
	7.5	Medium Output	531	5°	71	37,812
	11.5	High Output	744	5°	65	52,991

ALL LUMEN DATA IS FROM 4000K 80CRI FIXTURES. PLEASE SEE PHOTOMETRY SPEC SHEET FOR ADDITIONAL LUMEN DATA.

Color Rendering Index

80+, 90+

Color Consistency

3-Step MacAdam Ellipse

Lumen Depreciation

Watts	L70 @ 25C	L70 @ 50C	L90 @ 25C	L90 @ 50C
LOW	>60,500* >(109,000)**	>60,500* >(109,000)**	>60,500* >(109,000)**	>60,500* >(109,000)**
MEDIUM	>60,500* >(109,000)**	>60,500* >(109,000)**	>60,500* >(109,000)**	>60,500* >(109,000)**
HIGH	>60,500* >(181,000)**	>36,300* >(69,800)**	>60,500* >(69,800)**	>33,200*

* ENERGY STAR REPORTED TESTING HOURS TO DATE. CALCULATIONS FOR LED FIXTURES ARE BASED ON MEASUREMENTS THAT COMPLY WITH IES LM-80 TESTING PROCEDURES AND IES TM-21 CALCULATOR
** ESTIMATED HOURS

NOTE: Information on this Spec Sheet is subject to change, please visit ecosenselighting.com/downloads/rise for the most updated information.

DATE	PROJECT	FIRM	TYPE
ELECTRICAL	WATTAGE POWER FACTOR THD OPERATING VOLTAGE DRIVER STARTUP TEMPERATURE OPERATING TEMPERATURE STORAGE TEMPERATURE	LOW OUTPUT = 4 W; MEDIUM OUTPUT = 7.5 W; HIGH OUTPUT = 11.5 W >0.9 for 120 V (HO, MO, LO), 230 V (HO, MO), 277 V (HO) <0.2 for 120 V (HO, MO, LO), 230 V (HO, MO), 277 V (HO) MULTIVOLT: 110-277 VAC, 50/60 Hz INTEGRAL TO FIXTURE; DE-RATED POWER AND SYNCHRONOUS START-UP AT FULL BRIGHTNESS -40 °F TO 122 °F (-40 °C TO 50 °C) -40 °F TO 122 °F (-40 °C TO 50 °C) -40 °F TO 176 °F (-40 °C TO 80 °C)	
CONTROL	DIMMING	110-277 VAC, ELV TYPE, REVERSE PHASE, TRAILING EDGE	
PHYSICAL	DIMENSIONS HOUSING/LENS WEIGHT ENVIRONMENT MOUNTING OPTIONS	W 2.49" x H 8.13" x L 6.97" ; (63.33 mm x 206.45 mm x 177.05 mm) EXTRUDED ALUMINUM; UV STABILIZED POLYCARBONATE; STAINLESS STEEL FASTENERS 1.25 LBS / 0.56 KG OUTDOOR • UL CERTIFIED FOR WET LOCATIONS IP66 IMPACT RATED TO IK10 MEETS 3G ANSI C136.31 VIBRATION STANDARD FOR BRIDGE APPLICATIONS A - FLYING LEADS - INTERNAL CABLE IC; BOTTOM EXIT; 1/2" NPT ; UL / CE RATED B - EXTERNAL CABLE SIDE EXIT; SURFACE MOUNT ; UL LISTED SURFACE MOUNT PLATE INCLUDED C - EXTERNAL CABLE BOTTOM EXIT; 1/2" NPT ; UL LISTED SURFACE MOUNT PLATE INCLUDED D - EXTERNAL CABLE SIDE EXIT; SURFACE MOUNT ; CE LISTED SURFACE MOUNT PLATE INCLUDED E - EXTERNAL CABLE BOTTOM EXIT; SURFACE MOUNT ; CE LISTED SURFACE MOUNT PLATE INCLUDED	
	WIRING TOOLS WIND LOAD (EPA) CORROSION RESISTANT	LENGTH OF FLYING LEADS 19" (482.6 mm) LENGTH OF EXTERNAL CABLE 10' (3.05 m) 2.5 mm HEX KEY AND PHILLIPS #0 SCREWDRIVER FOR INTERCHANGEABLE LENS + SNOOTS 4 mm HEX KEY FOR AIMING 5 mm HEX KEY FOR MAIN TILT ARM EFFECTIVE PROJECTED AREA 0.14 ft ² RISE HAS A HIGH-PERFORMING, CORROSION-RESISTANT FINISH THAT USES HIGH DURABILITY TRIGLYCIDYL ISOCYANURATE (TGIC) POWDER COATINGS SPECIFICALLY DESIGNED FOR NATATORIUMS AND EXTERIOR WEATHER EXPOSURE. THIS FINISH HAS BEEN TESTED AND APPROVED TO MARINE GRADE CORROSION RESISTANCE STANDARD IN UL1598A, ASTM B117 SALT FOG TEST FOR 200 HOURS.	

Fixture Rating & Certifications	CE, UL CERTIFIED RoHS COMPLIANT, IK10	   IK10
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LIMITED WARRANTY 5 YEARS

0-10V CONTROL OPTIONS100-120 VAC / 277 VAC Linear Dimming Control Module 0-10 V - Plenum Rated LDCM-PL-120-277-010V-GR
All products come standard with ELV dimming capabilities. 0-10V Control options required for operation at 0-10V.**OPTIONAL ACCESSORIES****Snoots**Half Snoot, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom) F080-H-(K,Z,S,W,C)
Full Snoot, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom) F080-F-(K,Z,S,W,C)**Interchangeable Lens**

5 Degree	.....	F080-LENS-05
10 Degree	.....	F080-LENS-10
15 Degree	.....	F080-LENS-15
20 Degree	.....	F080-LENS-20
40 Degree	.....	F080-LENS-40
60 Degree	.....	F080-LENS-60
70 Degree	.....	F080-LENS-70
90 Degree	.....	F080-LENS-90
15x60 or 60x15 Degree	.....	F080-LENS-E1E3
30x60 or 60x30 Degree	.....	F080-LENS-E2E4
Full Set of Beam Angle Lens Degree (5, 10, 15, 20, 40, 60, 70, 90, 15X60 or 60X15, 30X60 or 60X30)	.....	F080-LENS-FULLSET

NOTE: Information on this Spec Sheet is subject to change, please visit ecosenselighting.com/downloads/rise for the most updated information.

DATE	PROJECT	FIRM	TYPE
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Honeycomb Louver

Honeycomb Louver F080..... F080-LV-HComb

Canopy Plate (Not for use with wire Option B - External Cable Side Exit)

RISE Canopy Plate (K=Black, Z=Bronze, S=Silver, W=White, C=Custom) RISE-CANOPY-04-(K,Z,S,W,C)

Color Filters

Red F080-FILTER-RED

Blue F080-FILTER-BLUE

Green F080-FILTER-GREEN

Amber F080-FILTER-AMBER

F080 Wall Mount Arm (for use only with Wiring Option C - External Cable Bottom Exit and not for use with multi-up fixtures)

Wall Mount Arm, 6 inch, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom) F080-WMA-06-(K,Z,S,W,C)

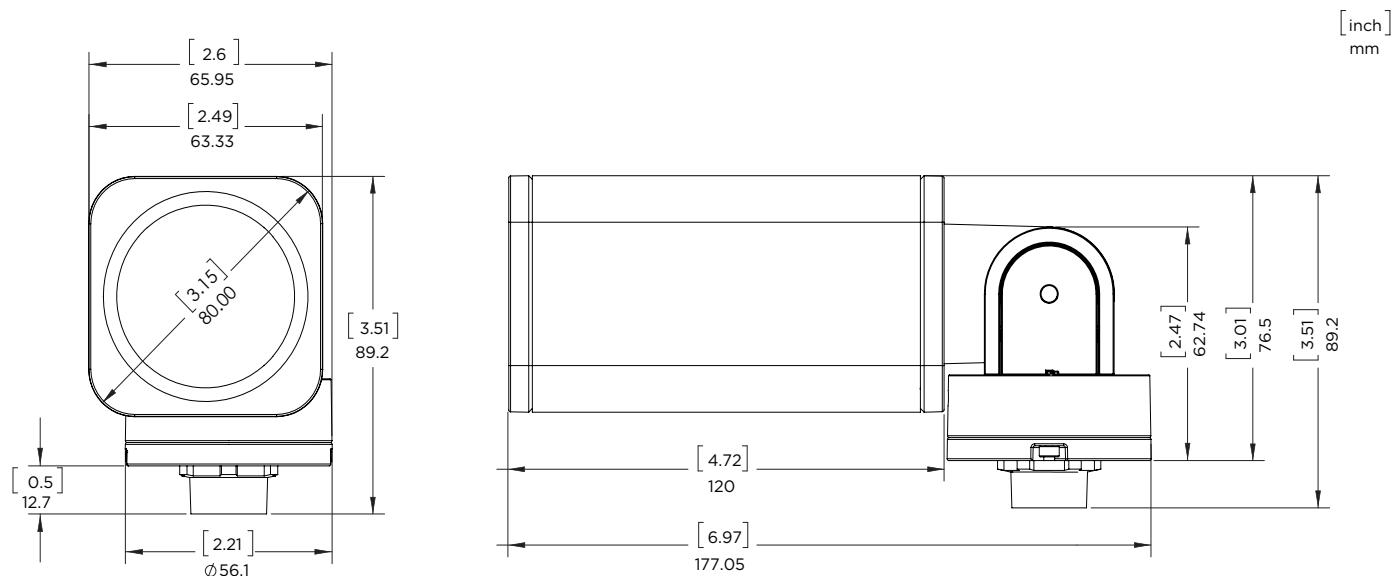
Wall Mount Arm, 12 inch, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom) F080-WMA-12-(K,Z,S,W,C)

Wall Mount Arm, 18 inch, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom) F080-WMA-18-(K,Z,S,W,C)

Wall Mount Arm, 24 inch, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom) F080-WMA-24-(K,Z,S,W,C)

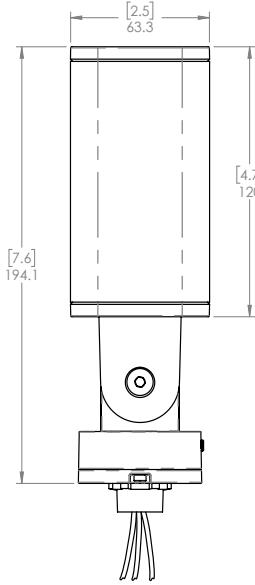
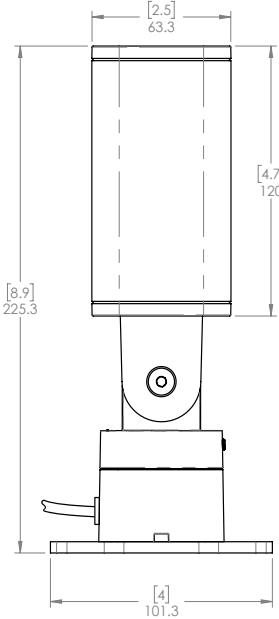
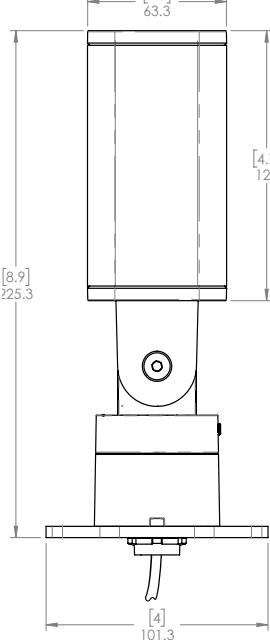
Ground Stake (for use only with Wiring Option C - External Cable Bottom Exit and not for use with multi-up fixtures)

Landscape Stake, 12 in (for use with F080 Single Head only, not for use with multi-fixture units) F080-LS-1S-STK-12

DIMENSIONSNOTE: Information on this Spec Sheet is subject to change, please visit ecosenselighting.com/downloads/rise for the most updated information.

WIRING GUIDE

RISE is and exterior rated (IP66) fixture that is available in three different wiring options:

Flying Leads - Internal Cable
(UL Listed or CE Listed)**External Cable Side Exit**
(UL Listed or CE Listed)**External Cable Bottom Exit**
(UL Listed or CE Listed)

- For use with standard junction boxes
- 1/2" NPT Taper, Cable Length is 19"
- Compatible with EcoSense Canopy junction Box Cover
- 18 AWG Stranded Copper Cable - 3 Conductors

- For use when external, exterior rated cable is required to run to remote junction box or mains
- Cable exits the side of the base
- Comes with a Surface Mount Plate, for mounting direct to surface
- Cable Length is 10' (3.05 m)

- For use when external, exterior rated cable is required to run to remote junction box or mains
- Cable exits the bottom for use with various accessories such as Wall Mount Arm and Ground Stake
- 1/2" NPT taper for mounting
- Comes with a Surface Mount Plate, for mounting direct to surface
- Cable Length is 10' (3.05 m)

NOTE: Information on this Spec Sheet is subject to change, please visit ecosenselighting.com/rise for the most updated information.

14w LED
1660 LumensIP65
Suitable for wet locationsIK08
Impact Resistant (Vandal Resistant)

Weight - 19.1 lbs

Construction**Aluminum**

Less than 0.1% copper content - Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength, clean detailed product lines and excellent heat dissipation.

Pre paint

8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket

Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management

LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression

Standard 10kv surge suppressor provided with all fixtures.

BUG Rating

B0 - U0 - G0

Finishing

All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint

UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C. This process ensures that Ligman products can withstand harsh environments. Rated for use in natatoriums.

Inspired by Nature Finishes

The Inspired by nature Finishing is a unique system of decorative powder coating. Our metal decoration process can easily transform the appearance of metal or aluminum product into a wood grain finish.

This patented technology enables the simulation of wood grain, and even marble or granite finish through the use of decorative powder coating.

The wood grain finish is so realistic that it's almost indistinguishable from real wood, even from a close visual inspection. The system of coating permeates the entire thickness of the coat and as a result, the coating cannot be removed by normal rubbing, chipping, or scratching.

The Coating Process

After pre-treatment the prepared parts are powder coated with a specially formulated polyurethane powder. This powder provides protection against wear, abrasion, impact and corrosion and acts as the relief base color for the finalized metal decoration.

The component is then wrapped with a sheet of non-porous film with the selected decoration pattern printed on it using special high temperature inks.

This printed film transfer is vacuum-sealed to the surface for a complete thermo print and then transferred into a customized oven. The oven transforms the ink into different forms within the paint layer before it becomes solid. Finally, the film is removed, and a vivid timber look on aluminum remains.

Wood grain coating can create beautiful wood-looking products of any sort. There are over 300 combinations of designs currently in use. Wood grains can be made with different colors, designs, etc.

Our powder coatings are certified for indoor and outdoor applications and are backed by a comprehensive warranty. These coatings rise to the highest conceivable standard of performance excellence and design innovation.

- Resistance to salt-acid room, accelerated aging
- Boiling water, lime and condensed water resistant
- Anti-Graffiti, Anti-Slip, Anti-Microbial, Anti-Scratch
- Super durable (UV resistant)
- TGIC free (non-toxic)

Hardware

Provided Hardware is Marine grade 316 Stainless steel.

Anti Seize Screw Holes

Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens

Provided with tempered, impact resistant crystal clear low iron glass ensuring no green glass tinge.

Optics & LED

Precise optic design provides exceptional light control and precise distribution of light. LED CRI > 80

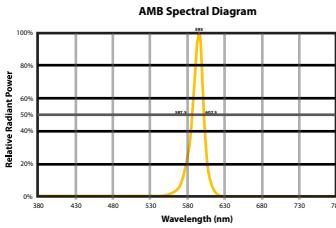
Lumen - Maintenance Life

L80 / B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

A new contemporary bollard design family, meeting Dark Sky requirements, utilizing MicroVos Technology to get maximum spacing and excellent uniformity.

Small, medium and large size LED bollards incorporates optional symmetrical and asymmetrical light distributions, in a variety of different heights. Clean architectural design with no visible hardware, at the top of the luminaire are the further characteristics of this bollard. Ideal for lighting pathways, entrances, square, and terraces.

Color temperature from 2700K, 3000K, 3500K and 4000K, LED CRI >80. Aluminum housing and extruded aluminium column with high corrosion resistance. Stainless steel fasteners in grade 316. Durable silicone rubber gasket and clear toughened glass. Powder coating with high corrosion resistance and chemical chromatized protection.

CITY OF FLAGSTAFF & TURTLE FRIENDLY COMPLIANT**Narrow-Spectrum Amber LEDs**

Peak wavelength between 585 & 595 nanometers and a full width of 50% power no greater than 15 nanometers.

Additional Options (Consult Factory For Pricing)

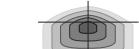
Ligman's micro Variable Optical System provides the ability to interchange, mix & rotate optics to provide specific light distributions for optimized spacing and uniformity.



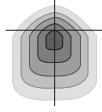
Type I



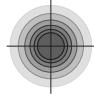
Type II



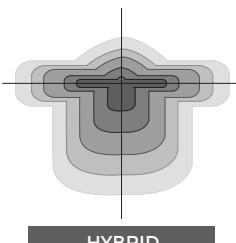
Type III



Type IV



Type V



The variable optic system allows for the designer to create hybrid distributions for precise lighting requirements.



PROJECT				DATE
QUANTITY		TYPE	NOTE	

ORDERING EXAMPLE || UPRA - 10012 - 14w - T2 - W30 - 02 - 120/277v - Options

UPRA-10012					
	LAMP	BEAM	LED COLOR	FINISH COLOR	VOLTAGE
14w LED	T1 - Type I Distribution	W27 - 2700K	01 - BLACK RAL 9011		120/277v
1660 Lumens	T2 - Type II Distribution	W30 - 3000K	02 - DARK GREY RAL 7043		Other - Specify
	T3 - Type III Distribution	W35 - 3500K	03 - WHITE RAL 9003		
	T4 - Type IV Distribution	W40 - 4000K	04 - METALLIC SILVER RAL 9006		
	M - Medium 32°		05 - MATTE SILVER RAL 9006		
	W - Wide 52°		06 - LIGMAN BRONZE		
	VW - Very Wide 65°		07 - CUSTOM RAL		
	EW - Extra Wide 108°				
		-T1-	-T2-		
		-T3-	-T4-		

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INSPIRED BY NATURE FINISHES

- SW01 - OAK FINISH
- SW02 - WALNUT FINISH
- SW03 - PINE FINISH
- DF - DOUGLAS FIR FINISH
- CW - CHERRY WOOD FINISH
- NW - NATIONAL WALNUT FINISH
- SU01 - CONCRETE FINISH
- SU02 - SOFTSCAPE FINISH
- SU03 - STONE FINISH
- SU04 - CORTEEN FINISH



THERE IS AN ADDITIONAL COST FOR THESE FINISHES

ADDITIONAL OPTIONS

NAT - Natatorium Rated

GFCI - GFCI Box

HGT - Custom Bollard Height

FNF - Front Face Nature Finish

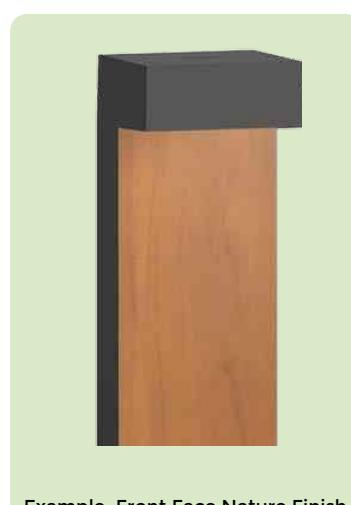
AMB - Turtle Friendly Amber LED

Custom Finishes Available Upon Request

Consult factory for pricing and lead times



Example: Inspired by Nature Finish



Example: Front Face Nature Finish



Prague 1

- UPRA-10001-8w-855lm [19.6"]
- UPRA-10002-8w-855lm [39.3"]



Prague 2

- UPRA-10011-14w-1675lm [19.6"]
- UPRA-10012-14w-1675lm [39.3"]



Prague 3

- UPRA-10021-20w-2422lm [19.6"]
- UPRA-10022-20w-2422lm [39.3"]

EYE 80 • EYE 125 • EYE 200

Surface Version

EYE is a ceiling lamp that comes in a recessed or surface-mounted version with 3 sizes each. It offers high luminous efficiency and perfect luminance control with 3 optics options: spot, flood and wide flood.

TECHNICAL DATA

Wattage	5W, 12W, 20W
Power Supply	Remote 24VDC - See page 3 (EYE 80) Remote 350mA (EYE 125), 500mA (EYE 200)
Construction	Body: Die-Cast Aluminum Lens: Extra Clear Glass Diffuser
CCT	3000K (2700K, 4000K on request)
BUG Rating	B1-U0-G0 (EYE 80 40° & 60°) B1-U1-G0 (EYE 125 40° & 60°) B2-U1-G0 (EYE 200 40° & 60°)
CRI	>90
Delivered Lumens	400 lm (EYE 80, 40°, 3000K) 950 lm (EYE 125, 40°, 3000K) 1400 lm (EYE 200, 40°, 3000K)
Efficacy	80 lm/W (EYE 80, 40°, 3000K) 63 lm/W (EYE 125, 40°, 3000K) 58 lm/W (EYE 200, 40°, 3000K)
Optics	20°, 40°, 60°
Finishes	4 Standard, See Below
Fixture Dimensions	Ø3.22" x 1.97" (EYE 80) Ø5.12" x 3.03" (EYE 125) Ø8.46" x 4.84" (EYE 200)
Aperature	Ø3.15" (EYE 80) Ø4.92" (EYE 125) Ø7.87" (EYE 200)
Lumen Maintenance	L70 >50,000hrs (Ta 40°C)
Color Consistency	3-Step MacAdam
IP Rating	IP65
Impact Resistance	IK08



designplan™

datasheet



Fixture Dimensions - see page 2

ORDERING INFORMATION

Example: LNEY60POSFB7ZG.US. Power Supplies / Accessories ordered separately.

LNEY					US
Model #	Size	Optics	Power	Finish	
LNEY	50 POS - EYE 80 (5W) 60 POS - EYE 125 (12W) 80 POS - EYE 200 (20W)	S - 20° Spot F - 40° Flood W - 60° Wide	HB7Z - Remote Driver (EYE 80) HB10 - Remote Driver (EYE 125/200)	L - Graphite V - Oxide U - White G - Black	US

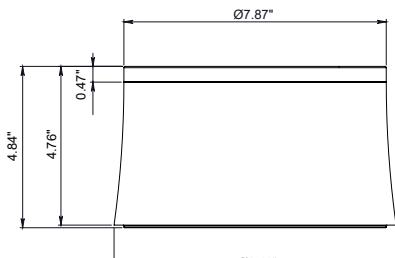
Job Name/Date:

Fixture Type Designation:

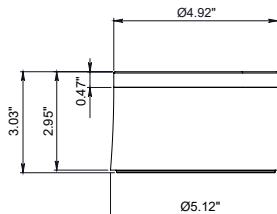
EYE 80 • EYE 125 • EYE 200

Surface Version

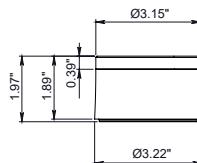
Fixture Dimensions



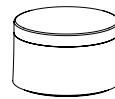
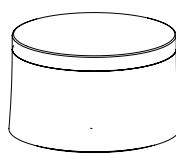
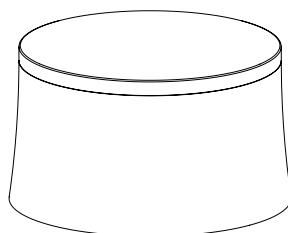
EYE 200



EYE 125



EYE80



Job Name/Date:

Fixture Type Designation:

EYE 80 • EYE 125 • EYE 200

Surface Version

SUGGESTED POWER SUPPLIES

24VDC - EYE 80 (5W)

Part Number	Description	Input/Output	# of Fixtures - 5W
PPLT00149	Non-Dim	120VAC to 24VDC, 10W, Class 2, IP65	1-1
PPLT00632	0-10V Dimming (Dim to Off)	120-277VAC to 24VDC, 12W, Class 2	1-1
PPLT00155	Non-Dim	120VAC to 24VDC, 30W, Class 2	1-4
PPLT00599	ELV / TRIAC & 0-10V Dimming (100 to 0%)	120-277VAC to 24VDC, 96W, Class 2	1-15
PPLT00158	Non-Dim	120VAC to 24VDC, 100W, Class 2	1-16
PPLT00543	0-10V Dimming to 15% (-40°C / -40°F cold weather start)	120-277VAC to 24VDC, 100W, Class 2	2-16

Suggested Lutron Compatible - EYE 80 (5W)

Part Number	Option	Lutron SKU	Dim Range	Description	Input/Output	# of Fixtures
PPLT00500	LTEA2W	LTEA	100%-1%	Hi-Lume™ 1% 2-Wire LED Driver (120V forward phase only)	120VAC to 24VDC, 40W, Class 2	1-6
PPLT00273	L3DAE / L3DA3W	L3DA	100%-1%	Hi-Lume™ 1% EcoSystem™ or 1% 3-Wire LED Driver	120-277VAC to 24VDC, 40W, Class 2	1-6

350mA - EYE 125 (12W)

Part Number	Description			Input/Output	# of Fixtures - 12W
PPLT00468	Phase Dim (120V only)			120VAC to 350mA, 14W, Class 2	1-1
PPLT00308-P	0-10V Dimming to 0.1%			120-277VAC to 350mA, 30W, Class 2	1-1
PPLT00263	Leading / Trailing Edge Dimming to 10% (120V only)			120-277VAC to 350mA, 32W, Class 2	1-1
PPLT00538-P	0-10V Dimming to 0.1% (4 channels)			120-277VAC to 350mA, 100W, Class 2	1-1 (1-4)

Suggested Lutron Compatible - EYE 125 (12W)

Part Number	Option	Lutron SKU	Dim Range	Description	Input/Output	# of Fixtures
PPLT00271	LTEA2W	LTEA	100%-1%	Hi-Lume™ 1% 2-Wire LED Driver (120V forward phase only)	120VAC to 350mA, 13W, Class 2	1-1
PPLT00516	L3DAE / L3DA3W	L3DA	100%-1%	Hi-Lume™ 1% EcoSystem™ or 1% 3-Wire LED Driver	120-277VAC to 350mA, 13W, Class 2	1-1

500mA - EYE 200 (20W)

Part Number	Description			Input/Output	# of Fixtures - 20W
PPLT00527	Phase Dim (120V only)			120VAC to 500mA, 20W, Class 2, IP66	1-1
PPLT00308-P	0-10V Dimming to 0.1%			120-277VAC to 500mA, 30W, Class 2, DAMP	1-1
PPLT00262	Leading / Trailing Edge Dimming to 10% (120V only)			120-277VAC to 500mA, 32W, Class 2	1-1
PPLT00538-P	0-10V Dimming to 0.1% (4 channels)			120-277VAC to 500mA, 100W, Class 2	1-1 (1-4)

Suggested Lutron Compatible - EYE 200 (20W)

Part Number	Option	Lutron SKU	Dim Range	Description	Input/Output	# of Fixtures
PPLT00258	LTEA2W	LTEA	100%-1%	Hi-Lume™ 1% 2-Wire LED Driver (120V forward phase only)	120VAC to 500mA, 19W, Class 2	1-1
PPLT00195	L3DAE / L3DA3W	L3DA	100%-1%	Hi-Lume™ 1% EcoSystem™ or 1% 3-Wire LED Driver	120-277VAC to 500mA, 19W, Class 2	1-1

For other power supply options consult factory.

Job Name/Date:

Fixture Type Designation:

EYE 80 • EYE 125 • EYE 200

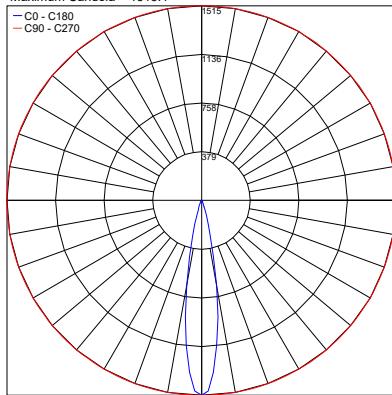
Surface Version

PHOTOMETRIC DATA

Note: All photometric data is 3000K

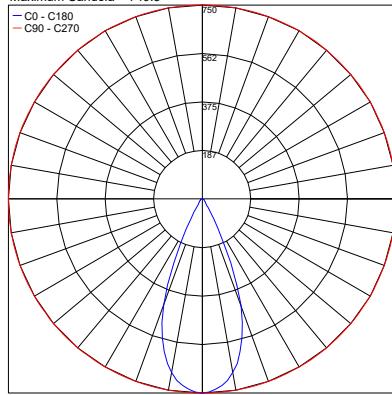
EYE 80

Maximum Candela = 1515.1



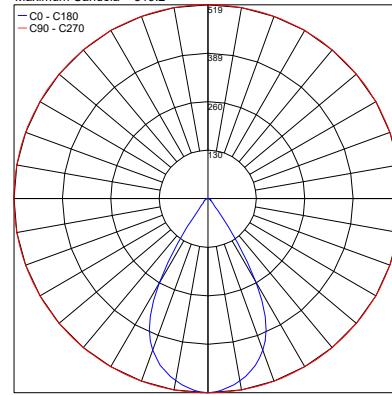
PHOTOMETRIC FILENAME : EYE 80 - EY80POSSXB7ZX - 20° 500MA 5W.IES

Maximum Candela = 749.8



PHOTOMETRIC FILENAME : EYE 80 - EY80POSFXB7ZX - 40° 500MA 5W.IES

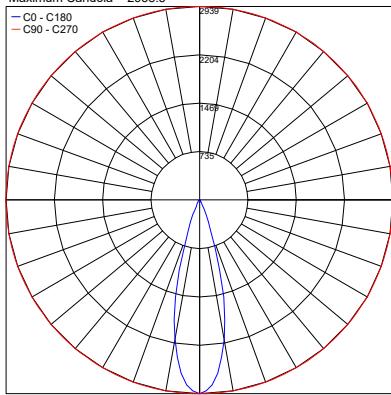
Maximum Candela = 519.2



PHOTOMETRIC FILENAME : EYE 80 - EY80POSWXB7ZX - 60° 500MA 5W.IES

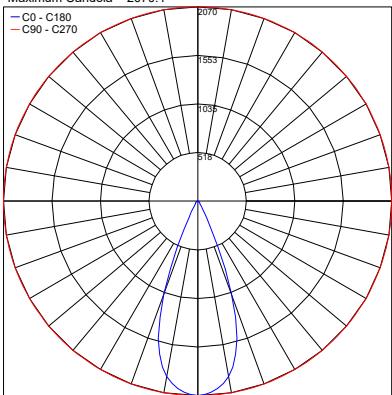
EYE 125

Maximum Candela = 2938.5



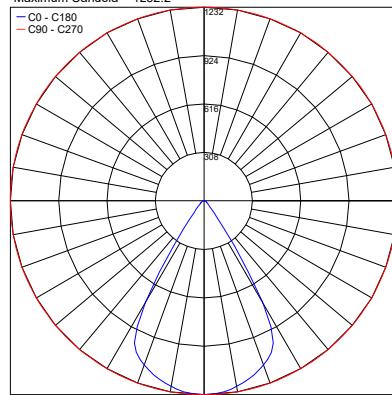
PHOTOMETRIC FILENAME : EYE 125 - EY60POSSXB10X 12W 20°.IES

Maximum Candela = 2070.1



PHOTOMETRIC FILENAME : EYE 125 - EY60POSFXB10X 12W 40°.IES

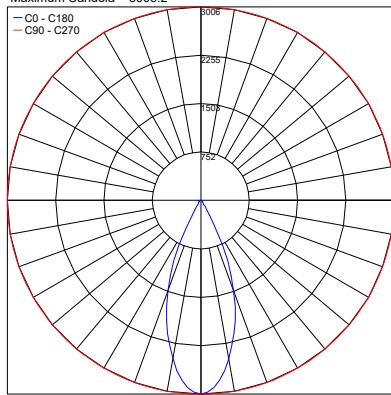
Maximum Candela = 1232.2



PHOTOMETRIC FILENAME : EYE 125 - EY60POSWXB10X 12W 60°.IES

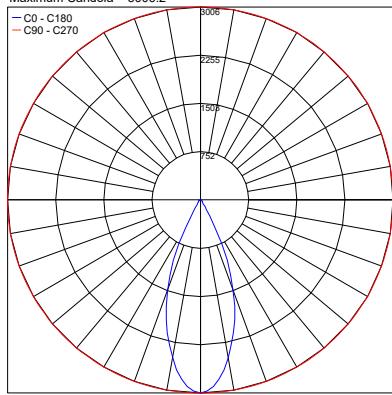
EYE 200

Maximum Candela = 3006.2

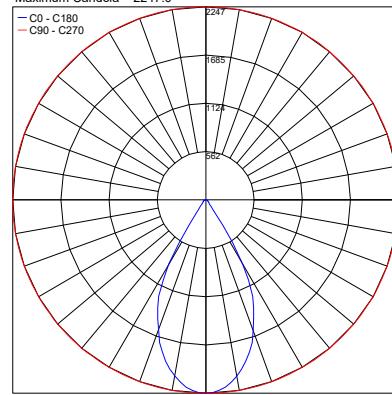


PHOTOMETRIC FILENAME : EYE 200 - EY80POSFXB10X 20W 20°.IES

Maximum Candela = 3006.2



Maximum Candela = 2247.0



PHOTOMETRIC FILENAME : EYE 200 - EY80POSFXB10X 20W 60°.IES

Job Name/Date:

Fixture Type Designation:



FLEXFIRELEDs

Outdoor IP65

Accent™ Series

LED Strip Light

Product Data Sheet



⚠ Please read all instructions carefully before installation.

Description

Our Outdoor (IP65) UltraBright™ Accent Series is the perfect choice for those wanting to uplift and revitalize any size space - inside or outside. With near-perfect color rendering and longer run lengths, these sophisticated lights are made to satisfy the desire for beauty and functionality. The weatherproof IP65 silicone cover promises complete protection against dust, can withstand powerful streams of water, and allows the strips to be easy to clean. Rediscover your favorite spaces and boast an even, bright line of light using minimal energy. Whether you want to brighten decks, beautify kitchens, or highlight your display windows, the IP65-rated Accent™ Series will reinvent your space.

15 Year
Warranty



Title 24 is regulated for lamps with color temperatures 4000K and below

Product Features

CRI	High CRI of up to 97
R9 and R13 Values	High R9 (99) & R13 (98) values
Lumens	Up to 300 lm/ft (985 lm/m)
Efficacy	Up to 80 lm/W
Voltage	12V and 24V DC Input
LEDs/Foot	73 LEDs/ft (240/m)
Beam Angle	120° Beam Angle
Ambient Temp	-4°F to 113°F (-20°C to 45°C)
PCB	4 oz copper PCB
LED Pitch	3/16" (4 mm)
Strip Width	1/2" (12 mm)
Cutting Points 12V	1/2" (13 mm)
Cutting Points 24V	1" (25 mm)
Max Run Length in Series 12V	32 ft (10 m)
Max Run Length in Series 24V	49 ft (15 m)
LED Size	2216
Adhesive Type	3M VHB 9495 tape (IP65)
Dimmable	Yes
IP65 Protection	Non-yellowing UV resistant silicone sleeve

Product Specifications

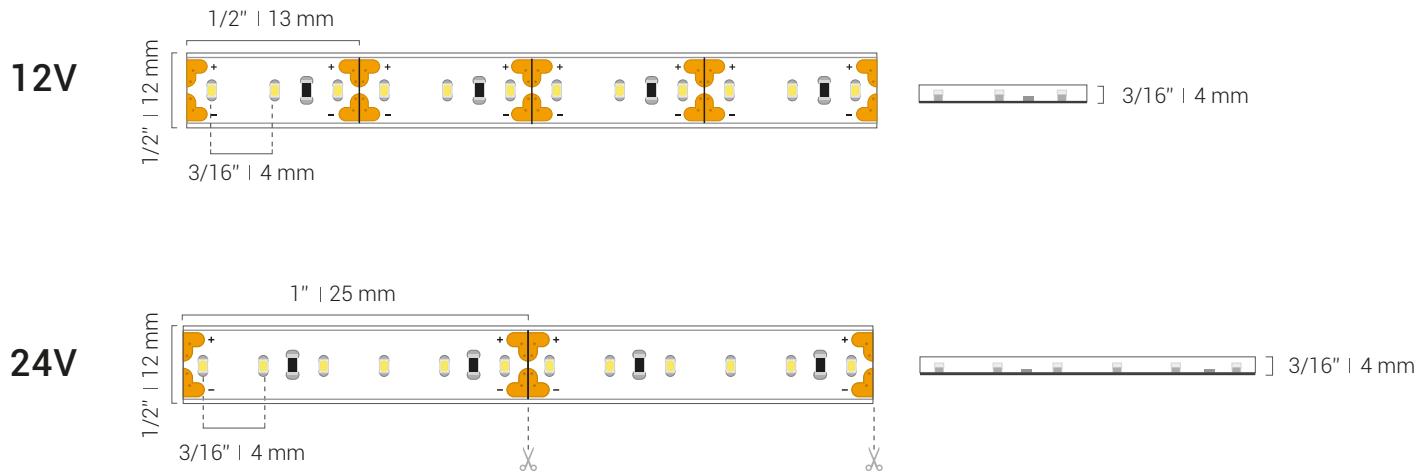
Product SKU	Color* (CCT)	Watts / Foot (Meter)	Lumen / Foot (Meter)	Luminous Efficacy (Lumens / Watt)	CRI	Gamut Score Rg (Color Sat.)	Fidelity Score Rf (Color Render)	TLCI (Qa)	CQS
IP65-AT1-27K97C	2700K	3.5 W/ft (11.5 W/m)	267 lm/ft (877 lm/m)	76	97	105	95	95	96
IP65-AT1-30K97C	3000K	3.5 W/ft (11.5 W/m)	275 lm/ft (901 lm/m)	78	97	103	96	98	98
IP65-AT1-35K97C	3500K	3.5 W/ft (11.5 W/m)	281 lm/ft (921 lm/m)	80	97	103	96	98	98
IP65-AT1-40K95C	4000K	3.5 W/ft (11.5 W/m)	263 lm/ft (864 lm/m)	75	97	102	96	98	98
IP65-AT1-50K95C	5000K	3.5 W/ft (11.5 W/m)	300 lm/ft (985 lm/m)	80	97	103	96	99	98

*CCT may be +/-100K but always ordered from same bin and will present no noticeable differences perceived by the human eye.

Ordering Code

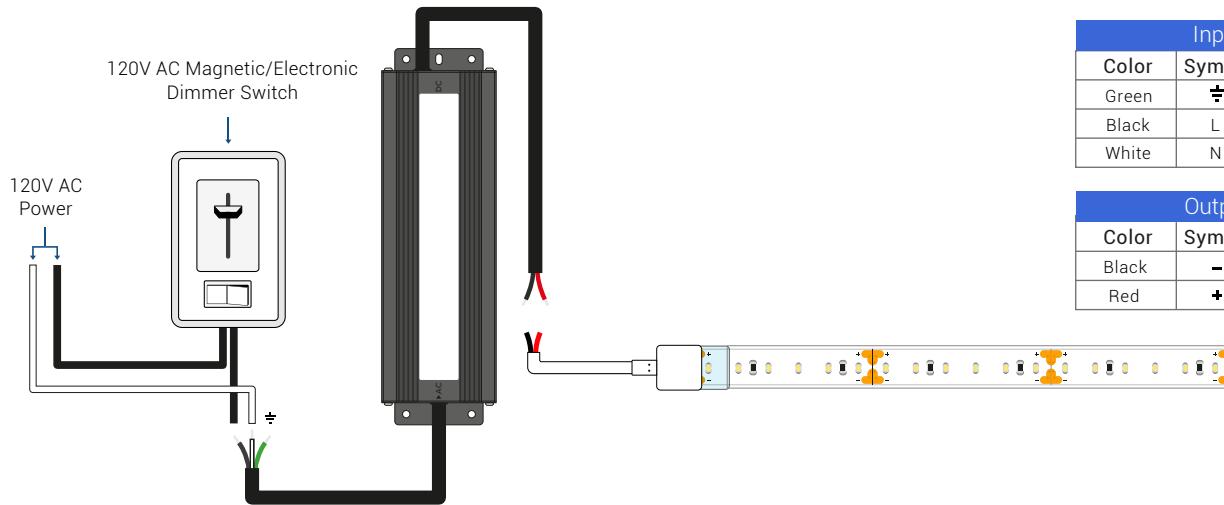
IP Protection	Brand	Series	CCT	Voltage	Length
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
IP65 - Weatherproof	UB - UltraBright	AT1 - Accent™ Series	27K97C - 2700K/97+ CRI 30K97C - 3000K/97+ CRI 35K97C - 3500K/97+ CRI 40K95C - 4000K/95+ CRI 50K95C - 5000K/95+ CRI	12V 24V	16FT - 16.4 ft Reel 32FT - 32.8 ft Reel

Dimensions

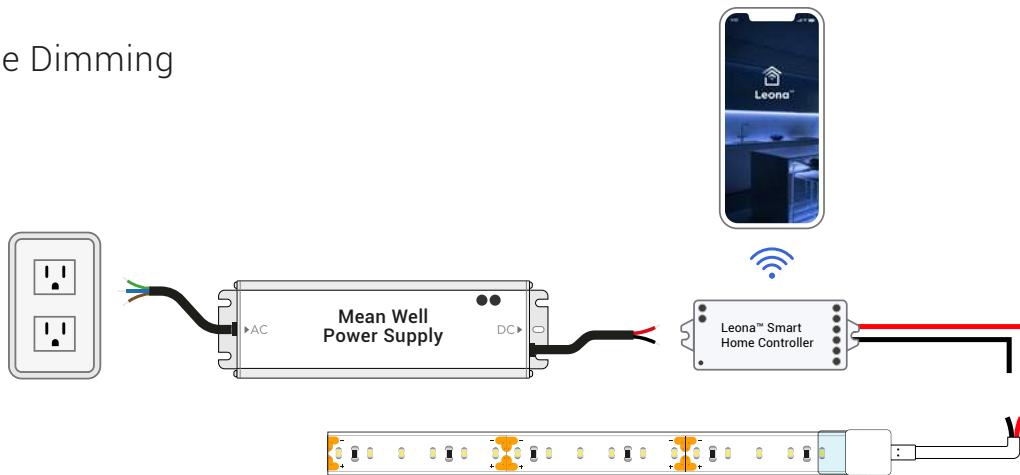


Dimming Options

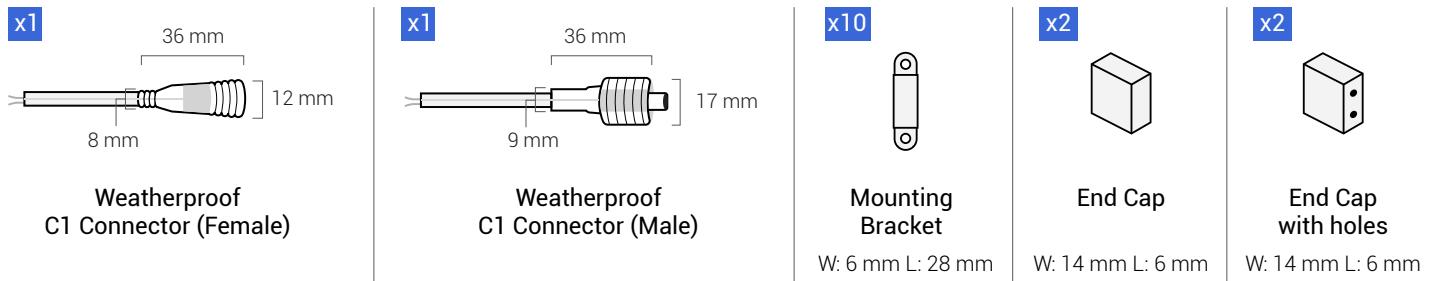
Lutron Style Wall Dimmer



In-Line Dimming



Included Accessories

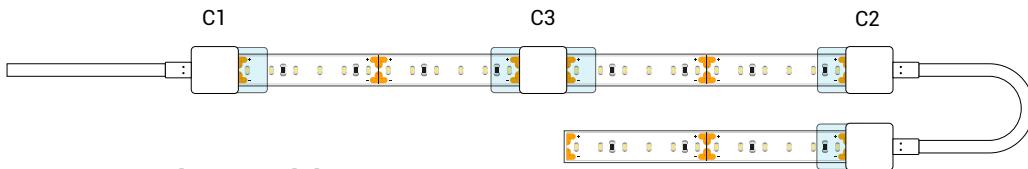


Strip Light Connectors

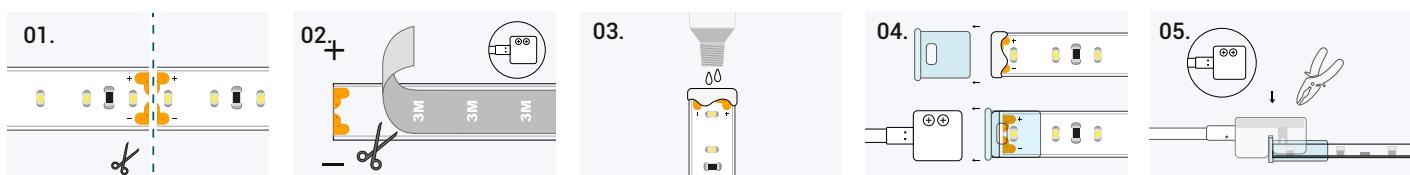
SKU	Description	Wire Gauge	Amperage** Limit	Diagram
IP65-GRIP-SC-C1-10-40	Outdoor IP65 Grip Connector with 40" wire	20 AWG		
IP65-GRIP-SC-C2-10-08	Outdoor IP65 Grip Jumper Connector with 8" wire	20 AWG	5 Amps	
IP65-GRIP-SC-C3-10-0	Outdoor IP65 Grip Jumper Connector			

*Calculate max length of LED strip to follow the solderless connector based on an amperage draw of 0.3 A/ft (0.96 A/m) at 12 volts, 0.15 amps per foot (0.48 A/m) at 24 volts.

**Be sure no more than 5 amps is drawn after any solderless connector.

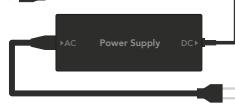
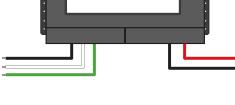


Solderless Connection Guide

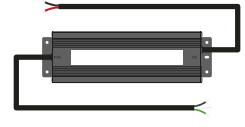
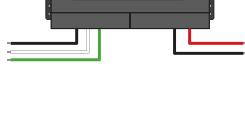


1. Cut the LED strip light and the silicone sleeve on the cutting point you want to install the connector.
2. Check the polarity and remove 2" of the adhesive tape and its backer from the back of the LED Strip light.
3. Apply Silicone sealant liberally inside of the silicone sleeve until ensuring it is completely sealed.
4. Slide the transparent case of your Outdoor IP65 Grip connector into the sleeve, until making sure that the strip is making proper contact.
5. Grab the white plastic part of your connector and push the metal contacts through the window of the transparent case. Adjust it with pliers until you hear a click, and then let the sealant cure according to its own instructions.

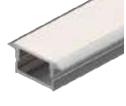
Compatible Drivers (12V)

	Power Supply	LED Strip Length	Product SKU	Diagram
Non-dimmable	Plug-In Power Supply	1 - 2 ft	12V-WMPS2-1	
		3 - 5 ft	12V-DPS2-2	
		6 - 10 ft	12V-DPS2-4	
		11 - 16 ft	12V-DPS2-6	
		17 - 21 ft	12V-DPS2-8	
Dimmable	Mean Well™ HLG	2 - 10 ft	HLG-40H-12A	
		11 - 15 ft	HLG-80H-12A	
		16 - 30 ft	HLG-120H-12A	
		31 - 38 ft	HLG-150H-12A	
		39 - 49 ft	HLG-240H-12A	
		50 - 68 ft	HLG-320H-12A	
		69 - 123 ft	HLG-600H-12A	
Mean Well™ LPV	Mean Well™ LPV	1 - 5 ft	LPV-20-12	
		6 - 9 ft	LPV-35-12	
		10 - 15 ft	LPV-60-12	
		16 - 25 ft	LPV-100-12	
Zurik® EMLV	Zurik® EMLV	1 - 7 ft	ZRK-EMLV2-30W-12VDC	
		8 - 15 ft	ZRK-EMLV2-60W-12VDC	
		16 - 30 ft	ZRK-EMLV2-120W-12VDC-J	
		31 - 51 ft	ZRK-EMLV2-200W-12VDC-J	
		52 - 77 ft	ZRK-EMLV2-300W-12VDC-J	
Zurik® Universal	Zurik® Universal	1 - 14 ft	ZRK-UNV-60W-12VDC	
		15 - 28 ft	ZRK-UNV-120W-12VDC	
		29 - 50 ft	ZRK-UNV-200W-12VDC	
		51 - 78 ft	ZRK-UNV-300W-12VDC	
		1 - 45 ft	ZRK-UNV-C180W-12VDC	
		46 - 78 ft	ZRK-UNV-C300W-12VDC	

Compatible Drivers (24V)

	Power Supply	LED Strip Length	Product SKU	Diagram
Non-dimmable	Plug-In Power Supply	1 - 5 ft	24V-WMPS2-1	
		6 - 13 ft	24V-DPS2-2.5	
		14 - 21 ft	24V-DPS2-4	
		22 - 27 ft	24V-DPS2-5	
Mean Well™ HLG	Mean Well™ HLG	2 - 10 ft	HLG-40H-24A	
		11 - 15 ft	HLG-60H-24A	
		16 - 25 ft	HLG-100H-24A	
		26 - 30 ft	HLG-120H-24A	
		31 - 47 ft	HLG-185H-24A	
		48 - 61 ft	HLG-240H-24A	
		62 - 82 ft	HLG-320H-24A	
		83 - 154 ft	HLG-600H-24A	
Mean Well™ LPV	Mean Well™ LPV	1 - 5 ft	LPV-20-24	
		6 - 9 ft	LPV-35-24	
		10 - 15 ft	LPV-60-24	
Zurik® EMLV	Zurik® EMLV	1 - 7 ft	ZRK-EMLV2-30W-24VDC	
		8 - 15 ft	ZRK-EMLV2-60W-24VDC	
		16 - 24 ft	ZRK-EMLV2-96W-24VDC-J	
		25 - 30 ft	ZRK-EMLV2-120W-24VDC-J	
		31 - 51 ft	ZRK-EMLV2-200W-24VDC-J	
		52 - 77 ft	ZRK-EMLV2-300W-24VDC-J	
Dimmable	Zurik® Universal	1 - 14 ft	ZRK-UNV-60W-24VDC	
		15 - 23 ft	ZRK-UNV-96W-24VDC	
		24 - 28 ft	ZRK-UNV-120W-24VDC	
		29 - 50 ft	ZRK-UNV-200W-24VDC	
		51 - 78 ft	ZRK-UNV-300W-24VDC	
		1 - 48 ft	ZRK-UNV-C192W-24VDC	
		49 - 99 ft	ZRK-UNV-C384W-24VDC	
		1 - 27 ft	L3D0-96W24V-U	
Lutron® Hi-Lume™ Premier		0.1% Constant Voltage Driver	Dimming Range: 0.1-100%	Description: Hi-Lume Premier 0.1% EcoSystem 24V constant voltage LED driver with Soft-on, Fade-to-Black dimming technology

Compatible Aluminum Extrusions

Name	Type	Included Accessories	Covers	Kit SKU	Mockup
Ion™	Surface Mount	-	-	ION-CH-A-1M	
Titan™	Surface Mount	2 Open End Caps 2 Closed End Caps 4 Metal Mounting Clips	Clear Cover, 1 m (3' 3/8") Frosted Cover, 1 m (3' 3/8") Matte Cover, 1 m (3' 3/8")	TTN-CH-A-CVR-C-1M TTN-CH-A-CVR-F-1M TTN-CH-A-CVR-M-1M	
Gemini™	Surface Mount	2 Open End Caps 2 Closed End Caps 4 Metal Mounting Clips	Clear Cover, 1 m (3' 3/8") Frosted Cover, 1 m (3' 3/8") Matte Cover 1, m (3' 3/8")	GEM-CH-A-CVR-C-1M GEM-CH-A-CVR-F-1M GEM-CH-A-CVR-M-1M	
		Note: This extrusion only fits the Outdoor (IP65) Accent™ Series LED strip without connectors.			
Nova™	Surface Mount	2 Open End Caps 2 Closed End Caps 4 Metal Mounting Clips	Clear Round Cover, 1 m (3' 3/8") Clear Square, 1 m (3' 3/8") Matte Round Cover, 1 m (3' 3/8") Matte Square Cover, 1 m (3' 3/8")	NOV-CH-A-CVR-C-RD-1M NOV-CH-A-CVR-C-SQ-1M NOV-CH-A-CVR-M-RD-1M NOV-CH-A-CVR-M-SQ-1M	
		Note: This extrusion only fits the Outdoor (IP65) Accent™ Series LED strip without connectors.			
Kepler™	Surface Mount	2 Open End Caps 2 Closed End Caps 4 Metal Mounting Clips	Clear Cover, 1 m (3' 3/8") Frosted Cover, 1 m (3' 3/8") Matte Cover, 1 m (3' 3/8")	KEP-CH-A-CVR-C-1M KEP-CH-A-CVR-F-1M KEP-CH-A-CVR-M-1M	
		Note: This extrusion only fits the Outdoor (IP65) Accent™ Series LED strip without connectors.			
Laika™	Surface Mount	2 Open End Caps 2 Closed End Caps 4 Metal Mounting Clips	Clear Cover, 1 m (3' 3/8") Frosted Cover, 1 m (3' 3/8")	LAI-CH-A-CVR-C-1M LAI-CH-A-CVR-F-1M	
		Note: This extrusion only fits the Outdoor (IP65) Accent™ Series LED strip without connectors.			
Atlas™	Angled Mount	2 Open End Caps 2 Closed End Caps 4 Metal Mounting Clips	Clear Cover, 1 m (3' 3/8") Frosted Cover, 1 m (3' 3/8") Matte Cover, 1 m (3' 3/8")	ATL-CH-A-CVR-C-1M ATL-CH-A-CVR-F-1M ATL-CH-A-CVR-M-1M	
		Note: This extrusion only fits the Outdoor (IP65) Accent™ Series LED strip without connectors.			
Calypso™	Recessed Mount	2 Open End Caps 2 Closed End Caps 4 Metal Mounting Clips	Frosted Cover, 1 m (3' 3/8") Matte Cover, 1 m (3' 3/8")	CAL-CH-A-CVR-F-1M CAL-CH-A-CVR-M-1M	
Phoenix™	Recessed Mount	2 Open End Caps 2 Closed End Caps 4 Metal Mounting Clips	Frosted Cover, 1 m (3' 3/8") Matte Cover, 1 m (3' 3/8")	PHO-CH-A-CVR-F-1M PHO-CH-A-CVR-M-1M	
Cassini™	Recessed Mount	2 Open End Caps 2 Closed End Caps 4 Metal Mounting Clips	Clear Cover, 1 m (3' 3/8") Frosted Cover, 1 m (3' 3/8") Matte Cover, 1 m (3' 3/8")	CAS-CH-A-CVR-C-1M CAS-CH-A-CVR-F-1M CAS-CH-A-CVR-M-1M	
		Note: This extrusion only fits the Outdoor (IP65) Accent™ Series LED strip without connectors.			

Safety And Disclosures

1. Installation must be in accordance with local and national electrical code regulations.
2. To ensure safety and correct installation, our strips are intended to be installed by a qualified, licensed electrician.
3. Only install with a Class 2 DC Constant Voltage LED driver to meet UL requirements.
4. Do not install in an environment where excessive heat may exist.
5. LED strip lights must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.
6. Do not secure this product with any kind of staples, nails, or materials that could potentially damage the product in any way. Keep these instructions for future reference.
7. Do not cover this product with any kind of combustible material such as paper, fabrics, etc.
8. Do not install within 5 feet of a swimming pool or spa.
9. Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.
10. Make sure the appropriate gauge wire is installed between the driver, LEDs, and any dimmers. When choosing wire, calculate voltage drop, maximum amperage rating, and the location ratings on the wire. Improper wire selection and installation could overheat wires, and cause fire.
11. Do not modify the product beyond instructions or warranty will be void.
12. We reserve the right to modify and improve the design of our fixtures without prior notice. Although we try our best to order the same colors every time, due to changes in technology and phosphors over time, we cannot guarantee to match existing installed fixtures for subsequent orders or replacements in regards to product appearance, CCT, or lumen output.
13. Do not install product with the majority of the product unsupported. Allowing the product to be suspended or dangling while installing may cause damage to the PCB due to the weight of the strip and/or spool.

Warranty Information

Limited Warranty

This product has a 15 year limited warranty from the date of shipment. This warranty only includes the main product outlined in this specification sheet and does not include the additional accessories that are used as a reference. Complete warranty details for fixtures and additional accessories are available at <https://www.flexfireleds.com/warranties/> within the Policies section. For warranty related questions please contact the product support team at (support@flexfireleds.com).

Consumer's Acknowledgment

Flexfire LEDs, Inc. stands behind its products when they are used properly and according to our specifications. When you purchase our products, you are agreeing to the terms and conditions outlined in our warranty section. We try our best to make recommendations, but the burden of proper installation, design, and maintenance relies on the purchaser. This limited warranty does not include product failures that are the result of: Not using a voltage regulated power supply to connect the LED product or controls; Connecting LED products to the wrong output voltage; Improper connection of power supplies, LED products, or controls; Connecting LED products or controls directly to any AC power source if they are stated for DC only input; Connecting power supplies backwards to an AC power source; Products used in an inappropriate location or in environmental conditions (temperature, humidity, moisture, etc.) outside the normal specified range; Water damage to products not specifically sold as waterproof products; Electrical power surges and spikes; Damage from hail, flooding, tornado, fire, wind, earthquake, lightning, electrical storm, or any other natural disasters or "force majeure" incidences; Damage caused by a vehicle or other accident; Damage caused when transporting the item; Damage to any products that were modified by the user, used for purposes other than as intended or directed, or connected to LED systems or components not purchased from Flexfire LEDs; Products that have been subjected to misuse, mishandling, misapplication or accident. Products used in connection with any components, devices or systems other than those explicitly approved as compatible with Company's products and listed on Company's website. Excessive wear and tear and/or physical or accidental abuse, loss, or theft. Improper repairs or warranty services performed by someone other than Flexfire LEDs will void this warranty.

Contact Information



Toll Free Number:
1-844-353-9347



Local Number:
(925) 273-9080



info@flexfireleds.com



FLEXFIRELEDs

www.flexfireleds.com

STEP LINEAR 07

designplan®

datasheet

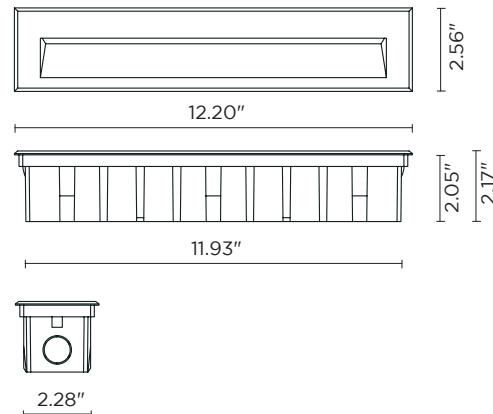
Step Linear 07 is a recessed linear steplight for outdoor installation in walls. It is available in 3000K with an asymmetric 120° optic and a textured gray finish.



TECHNICAL DATA

Wattage / Input	10.5W (120VAC)
Power Supply	Integral
Construction	Body/Frame: Die-Cast Copper-Free Aluminum Lens: Tempered, Frosted Glass Cable Length: 1.64'
CCT	3000K
Delivered Lumens	324 lm (3000K)
Efficacy	30.9 lm/W
Optics	Asymmetric 120°
Finishes	Textured Gray
Fixture Dimensions	2.56" w x 12.20" l x 2.17" h
LED Source	30 x SMD5630 Low Power LEDs
Fixture Weight	3.31 lbs
IP Rating	IP65
IK Rating	IK08

Fixture Dimensions



ORDERING INFORMATION

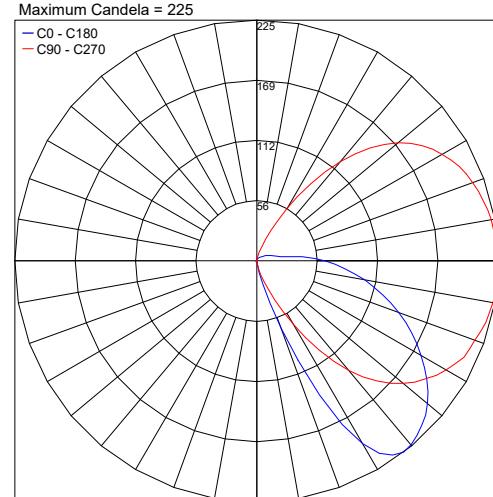
Example: 502020P

502020P

Model No.	CCT	Optics	Finish
502020P	3000K	120°	Textured Gray

Job Name/Date:

Fixture Type Designation:



BEAM 2.7

Beam 2.0 is a recessed in-grade uplight with a cap and lateral light emission to indicate pathways and pedestrian zones. It is offered in single or double beam in white or blue light with radial optics and 3 different finishes.

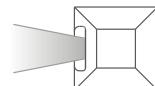
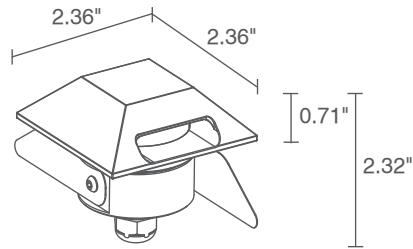
TECHNICAL DATA

Wattage / Input	2W (single or double beam: 24VDC)
Power Supply	Remote, not included. See page 2.
Construction	Body: Stainless Steel or Anodized Aluminum Trim: Stainless Steel or Aluminum Lens: Sandblasted Plexiglass
CCT	2700K, 3000K, 4000K, 5000K, Blue
CRI	>80
Delivered Lumens	Single Beam: 70 lm (3000K) Double Beam: 51 lm (3000K) per beam
Efficacy	Single Beam: 35 lm/W (3000K) Double Beam: 25.5 lm/W (3000K) per beam
Optics	Radial
Finishes	Stainless Steel, Grey, Anthracite, Custom RAL
Fixture Dimensions	2.36" x 2.36" x 2.32"
Cut-out Size	Ø1.77" (for wall installations)
Fixture Weight	1.04 lbs Stainless Steel 0.55 lbs Grey Aluminum
LED Source	Single Beam: 1 Power LED Double Beam: 2 Power LEDs
Lumen Maintenance	L80, B10 >50,000hrs (Ta 25°C)
Color Consistency	1/4 ANSI BIN
Operating Temp.	-4°F to +113°F
IP Rating	IP67
IK Rating	IK09

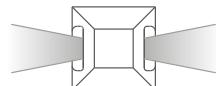


Cut-out Dimension for wall installations
= Ø1.77"

Fixture Dimensions



Single Beam



Double Beam

ORDERING INFORMATION

Example: CD27215DH or CD27215DH-2. Accessories and Power Supplies ordered separately.

		D		
Model No.	CCT	Optics	Finish	Cable Length
CD2712 (single beam)	F - 2700K	D - Radial	I - Stainless Steel	4.92' standard
CD2721 (double beam)	5 - 3000K		F - Grey	1 - 16.40'
	9 - 4000K		H - Anthracite	2 - 32.81'
	0 - 5000K		C - Custom	3 - 49.21'
	1 - Blue		(consult factory for "C")	4 - 65.62'

Job Name/Date:

Fixture Type Designation:

BEAM 2.7

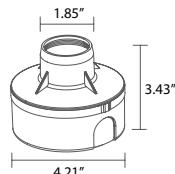
SUGGESTED POWER SUPPLIES

24VDC - Single Beam or Double Beam

Part Number	Description	Input/Output	# of Fixtures
PPLT00149	Non-Dim	120VAC to 24VDC, 10W, Class 2	1-4
PPLT00632	0-10V Dimming (Dim to Off)	120-277VAC to 24VDC, 12W, Class 2	1-4
PPLT00155	Non-Dim	120VAC to 24VDC, 30W, Class 2	1-12
PPLT00157	Non-Dim	120VAC to 24VDC, 60W, Class 2	1-24
PPLT00599	ELV / TRIAC & 0-10V Dimming (100 to 0%)	120-277VAC to 24VDC, 96W, Class 2	1-38
PPLT00543	0-10V Dimming to 15% (-40°C / -40°F cold weather start)	120-277VAC to 24VDC, 100W, Class 2	5-40

For other power supply options consult factory.

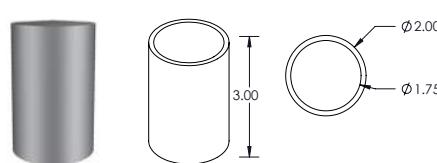
ACCESSORIES - Installation



WC1501

Outer Casing

For in-grade use



PPMP03113

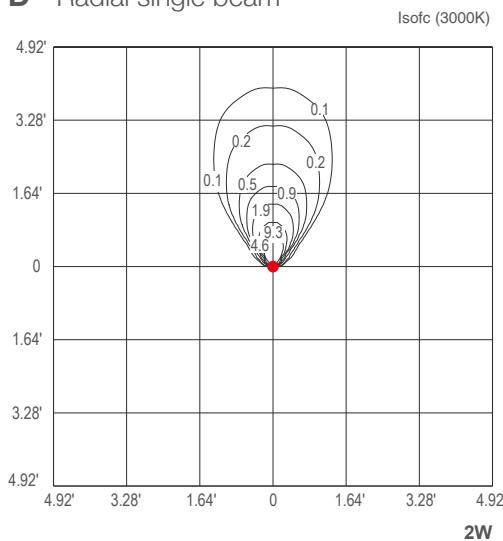
Core Drilled

Application Sleeve

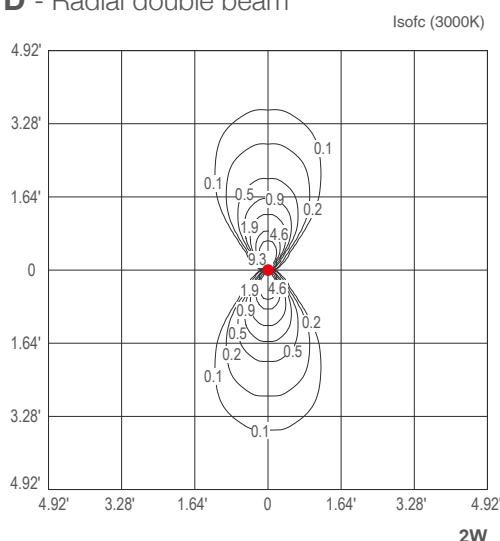
PHOTOMETRIC DATA

Note all Photometry is 3000K

D - Radial single beam



D - Radial double beam

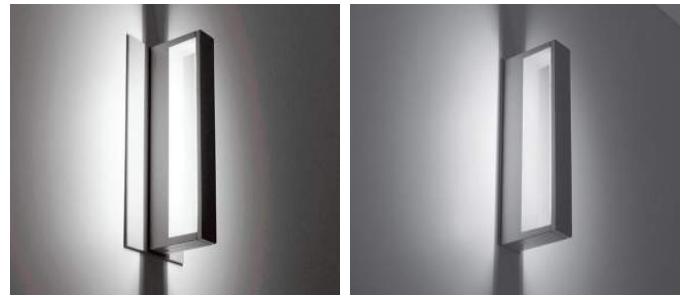


Job Name/Date:

Fixture Type Designation:

Project name:

Type:



4" Junction box

Single gang box

Wall mounted luminaire with asymmetric light distribution that provides ambient light on vertical surfaces. Suitable for exterior applications.

Luminaire characteristics:

Power input: 24W

Lumens: 950 lm (delivered for 3000K)

Luminaire efficacy: 39 lm/W (for 3000K)

Source: LED module, LM-80 tested.

3000K : 90CRI.

4000K : 90CRI.

Lumen maintenance: 70% of initial lumens at >50 000 hours (L70), LM79 tested.

Optics: Accent light.

Mounting: See mounting options on page 2.

Material:

Body: Die-cast aluminum.

Diffuser: Toughened glass.

Electrical: Universal high efficiency electronic power supply, rated at 50 000 hours, 120-277V. See page 3 for remote power supply options.

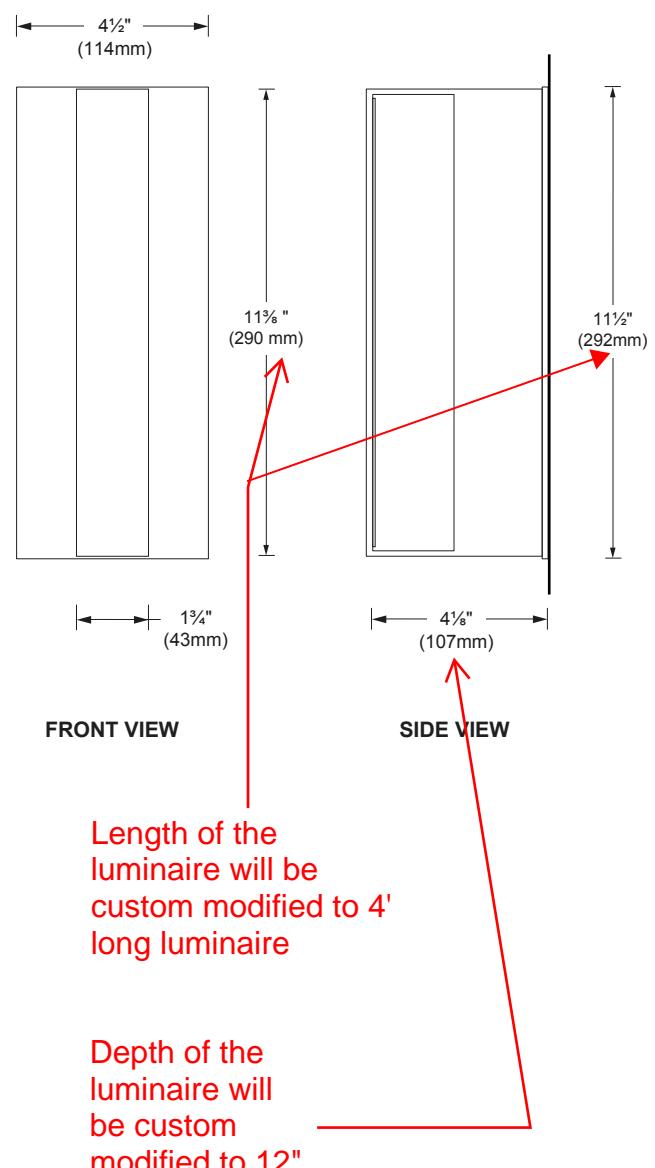
Finish: White or Aluminum gray.

Weight: 2.80lbs (1.27kg).

Warranty: 5 year limited warranty.

Certification: cULus listed for wet location.

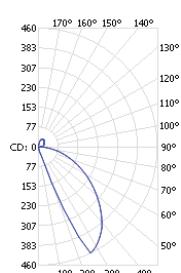
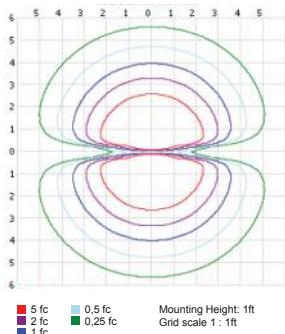
Ratings: IP54, IK06



PHOTOMETRIC DATA

Visit sistemalux.com for complete photometric data.

LOAD (W)	CCT (K)	CRI	OPTIC	LUMENS (lm)	EFFICACY (lm / w)	MAX CANDELA (cd)	MODEL
24W	3000K	90	Accent light	950	39	455	S.7270W

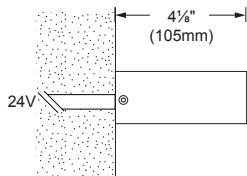


This luminaire will be modified to a custom fixture with 400 lumen output.

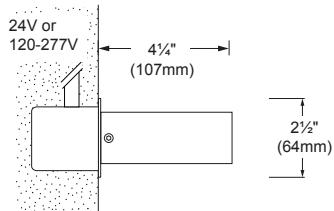
3000K - 90 CRI - accent light

SURFACE MOUNTING OPTIONS

DF-REM - Direct feed with remote power supply.
Connections made inside fixture
(14-18AWG). Rigid or flexible conduit
up to Ø1" cabtire, romex or bx.
Installed directly to surface.



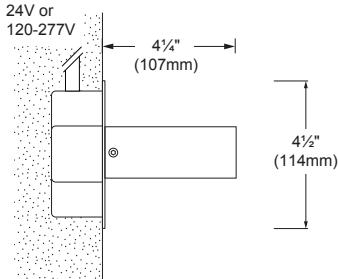
J2-UNV - 2" junction box with integral power supply.
Mounting adapter plate for junction box installation.
Min 1 1/8" (48mm) deep



J2-REM - 2" junction box with remote power supply.
Mounting adapter plate for junction box installation.

Min 1 1/8" (48mm) deep

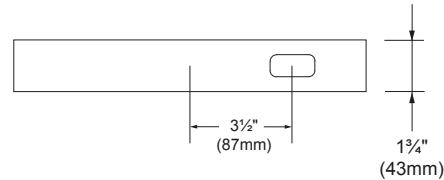
JB-UNV - 4" junction box with integral power supply.
Mounting adapter plate for junction box installation.
Min 1 1/2" (38mm) deep



JB-REM - 4" junction box with remote power supply.
Mounting adapter plate for junction box installation.
Min 1 1/2" (38mm) deep

FEED POSITION

The feed is located 3 1/2" (87mm) from the center of the fixture.
Refer to instruction sheet for more precise mounting details.



FRONT VIEW

ORDERING INFO

MODEL	MOUNTING	ELECTRICAL	FINISH
MODEL	MOUNTING	ELECTRICAL	FINISH
<input type="radio"/> S.7270W - 3000K	<input type="radio"/> DF - Surface mounted with direct feed	<input type="radio"/> UNV - 120-277V	<input type="radio"/> 01 - White
<input type="radio"/> S.7270N - 4000K	<input type="radio"/> JB - Surface mounted with junction box	<input type="radio"/> REM - 24V remote power supply	<input type="radio"/> 14 - Aluminum gray
	<input type="radio"/> J2 - Surface mounted with single gang box		
REMOTE POWER SUPPLY OPTION (TO BE ORDERED SEPARATELY) Requirement for one (1) fixture: 22W, 24VDC (Remote fixture only)			
<input type="radio"/> 4444-0024-025-UNV-ND	<input type="radio"/> 4545-0024-075-UNV-ND	<input type="radio"/> 4448-0024-150-UNV-D10	
<input type="radio"/> 4549-0024-075-UNV-D10	<input type="radio"/> 4551-0024-080-120-LTE	<input type="radio"/> 4546-0024-200-2C-UNV-ND	

REMOTE POWER SUPPLY OPTION
(TO BE ORDERED SEPARATELY)

Watts	Min-Max	Voltage	Rated	Dimming protocol	Box dimentions	Max distance 18AWG	Code
25	1	120-277V	Indoor	None	6" X 4" X 3" (152 X 102 X 76mm)	30ft (9m)	4444-0024-025-UNV-ND
75	1-3	120-277V	Outdoor	0-10V	14½" X 5" X 3¼" (362 X 127 X 83mm)	30ft (9m)	4549-0024-075-UNV-D10
75	1-3	120-277V	Outdoor	None	11¼" X 3" X 1¾" (285 X 75 X 42mm)	30ft (9m)	4545-0024-075-UNV-ND
80	1-3 w/o dim 2-3 w/ dim	120V	Outdoor	Leading and trailing edge (ELV and TRIAC)	14" X 5" X 2" (356 X 127 X 51mm)	30ft (9m)	4551-0024-080-120-LTE
150	1-6	120-277V	Indoor	0-10V	10" X 8" X 4" (254 X 203 X 102mm)	27ft (8m)	4448-0024-150-UNV-D10
200	1-4 Per channel MAX 8	120-277V	Outdoor	None	12" X 4½" X 2¾" (305 X 114 X 60mm)	30ft (9m) Per channel	4546-0024-200-2C-UNV-ND

DUE TO CONTINUOUS IMPROVEMENTS, THE INFORMATION HEREIN MAY BE CHANGED WITHOUT NOTICE.

LAST UPDATE: APRIL 17, 2018

EV - R6

SISTEMALUX

9320 Boul. St-Laurent, suite 100, Montréal (Québec) Canada H2N 1N7
P.: 514.523.1339 F.: 514.525.6107 www.sistemalux.com

QUBY IP54

OUTDOOR

Quby is a recessed wall luminaire made of Calcyc® plaster that can be used as orientation lighting. The fixture has a trimless opaline cover that sits flush with the wall and the absence of a metal frame makes the fixture especially elegant. It is available as indoor (IP20), bathroom or outdoor (IP54) versions in 5 color temperatures.

designplan™

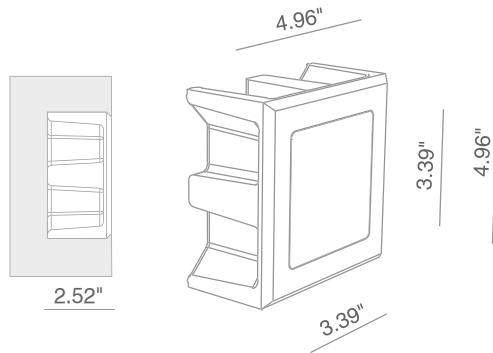
datasheet



TECHNICAL DATA

Wattage / Input	1W, 2W, 4W (350mA)
Power Supply	Remote, not included. See page 2.
Construction	Body: CALCYT® plaster Lens: Frosted diffuser
CCT	2200K, 2700K, 3000K, 4000K, Royal Blue
CRI	>90 and >80
Delivered Lumens	42 lm (1W, 3000K)
Efficacy	42 lm/W
Optics	Fixed
Finishes	Paintable Plaster
Fixture Dimensions	4.96" l x 2.52" w x 4.96" h
Cut-out Dimension	5.20" x 5.20"
Aperature	3.39" x 3.39"
Color Consistency	3-Step MacAdam
IP Rating	IP54

Ceiling Cut-Out: 5.20" x 5.20"
Fixture Dimensions



ORDERING INFORMATION

Example: 126 60 205. Accessories / Power Supplies ordered separately.

Model No.	Description	Model No.	Description
126 60 505 - 2200K	1W, 100 lm, CRI 80, IP54 Outdoor	126 61 505 - 2200K	4W, 400 lm, CRI 80, IP54 Outdoor
126 60 005 - 2700K	1W, 100 lm, CRI 90, IP54 Outdoor	126 61 005 - 2700K	4W, 400 lm, CRI 90, IP54 Outdoor
126 60 105 - 3000K	1W, 100 lm, CRI 90, IP54 Outdoor	126 61 105 - 3000K	4W, 400 lm, CRI 90, IP54 Outdoor
126 60 205 - 4000K	1W, 100 lm, CRI 90, IP54 Outdoor	126 61 205 - 4000K	4W, 400 lm, CRI 90, IP54 Outdoor
126 60 305 - Royal Blue	1W, 100 lm, IP54 Outdoor	126 61 305 - Royal Blue	4W, 400 lm, IP54 Outdoor
126 62 505 - 2200K	2W, 200 lm, CRI 80, IP54 Outdoor		
126 62 005 - 2700K	2W, 200 lm, CRI 90, IP54 Outdoor		
126 62 105 - 3000K	2W, 200 lm, CRI 90, IP54 Outdoor		
126 62 205 - 4000K	2W, 200 lm, CRI 90, IP54 Outdoor		
126 62 305 - Royal Blue	2W, 200 lm, IP54 Outdoor		

Job Name/Date:

Fixture Type Designation:

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QUBY IP54

OUTDOOR

SUGGESTED POWER SUPPLIES

350mA

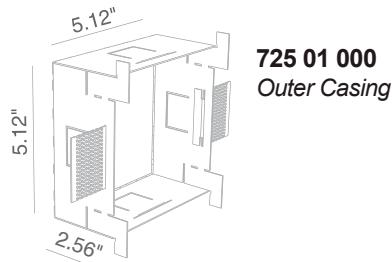
Part Number	Description	Input/Output	# of Fixtures		
			1W	2W	4W
PPLT00138	0-10V Dimming to 10%	120-277VAC to 350mA, 4W, Class 2	2-3	1-1	N/A
PPLT00468	Phase Dim (120V only)	120VAC to 350mA, 14W, Class 2	4-12	2-6	1-3
PPLT00308-P	0-10V Dimming to 0.1%	120-277VAC to 350mA, 30W, Class 2	1-16	1-9	1-4
PPLT00309-P	0-10V Dimming to 0.1%	120-277VAC to 350mA, 50W, Class 2	1-16	1-9	1-4
PPLT00538-P	0-10V Dimming to 0.1%	120-277VAC to 350mA, 100W, Class 2	1-68	1-40	1-16

Suggested Lutron Compatible

Part Number	Option	Lutron SKU	Dim Range	Description	Input/Output	# of Fixtures		
						1W	2W	4W
PPLT00252	LTEA2W	LTEA	100%-1%	Hi-Lume™ 1% 2-Wire LED Driv. (120V forward phase only)	120VAC to 350mA, 7W, Class 2	4-5	2-3	1-1
PPLT00247	L3DAE / L3DA3W	L3DA	100%-1%	Hi-Lume™ 1% EcoSystem™ or 1% 3-Wire LED Driv.	120-277VAC to 350mA, 7W, Class 2	4-5	2-3	1-1
PPLT00516	L3DAE / L3DA3W	L3DA	100%-1%	Hi-Lume™ 1% EcoSystem™ or 1% 3-Wire LED Driv.	120-277VAC to 350mA, 13W, Class 2	6-11	3-6	2-3
PPLT00271	LTEA2W	LTEA	100%-1%	Hi-Lume™ 1% 2-Wire LED Driv. (120V forward phase only)	120VAC to 350mA, 13W, Class 2	6-11	3-6	2-3
PPLT00179	L3DAE / L3DA3W	L3DA	100%-1%	Hi-Lume™ 1% EcoSystem™ or 1% 3-Wire LED Driv.	120-277VAC to 350mA, 19W, Class 2	12-16	6-9	3-4
PPLT00220	LTEA2W	LTEA	100%-1%	Hi-Lume™ 1% 2-Wire LED Driv. (120V forward phase only)	120VAC to 350mA, 19W, Class 2	12-16	6-9	3-4

For other power supply options consult factory.

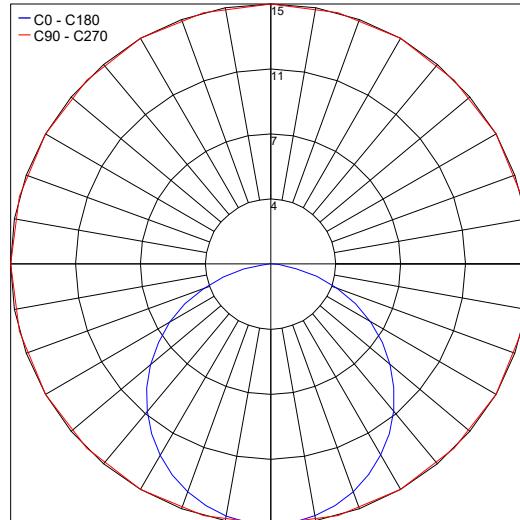
ACCESSORIES - Installation



PHOTOMETRIC DATA

Note all Photometry is 3000K

Maximum Candela = 14.9

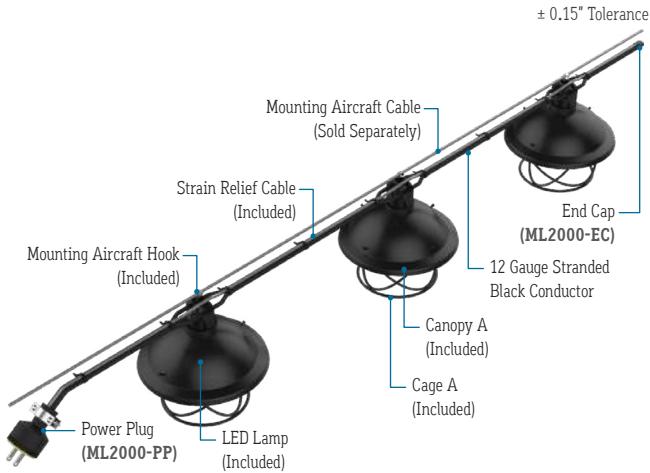


Job Name/Date:

Fixture Type Designation:

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CALI

CALIFORNIA
ACCENT
LIGHTING
INC

FEATURES

APPLICATIONS	Indoor and Outdoor
LAMP	LED Lamp (Included)
LED LAMP LIFE	20,000 Hours
LENGTH	Built to Order
FINISH	Black
FEED	Standard 6' Power Lead
STRAIN RELIEF	Cable (Included, Not for Mounting)
MOUNTING	Mounting Aircraft Cable (Sold Separately)
LISTING	Dry or Wet Location ANSI/UL1598 CSA 22.2 No. 250.0-04, 2nd Edition
OPTIONS	Mesh, Canopies, or Cages
UV RATING	Sun Light Resistance
BUG RATING	B0-U1-G0 Dark Sky Compliant* ¹
INSTALLATION	Link to Installation Instructions
ELECTRICAL	
DIMMING	Forward Phase
MAXIMUM RUN	100'
VOLTAGE	120V
SYSTEM	20 Amps (12 Gauge Wire)
WATTS	1W or 3W Lamps

SERIES	SPACING	LAMP	DIMMING	LISTING	CANOPY FINISH INSIDE* ²	CANOPY FINISH OUTSIDE* ²	Fixture Length
ML2000-CACA	-	-	-	-	-	-	-
ML2000-CACA	12" O/C (12")	2.7K-GSF	5.0K-GSFL	Forward Phase (DM)	Indoor (DRY)	Natural (NA)	Natural (NA)
	18" O/C (18")	5.0K-GSF	2.7K-SSF	Leave Blank for Non-Dimming	Outdoor (WET)	Polished (PA)	Polished (PA)
	24" O/C (24")	A-GSF	5.0K-SSF			White (WH)	White (WH)
	36" O/C (36")	R-GSF	2.7K-SSC			Black (BK)	Black (BK)
	48" O/C (48")	G-BSF	5.0K-SSC			Green (GN)	Green (GN)
	60" O/C (60")	B-GSF	A-SSC			Bronze (BR)	Bronze (BR)
		2.4K-GSFL	R-SSC			Silver (SR)	Silver (SR)
		2.7K-GSFL	G-SSC			Red (RD)	Red (RD)
		3.0K-GSFL	B-SSC				

*¹ For Dark Sky Compliant fixtures, use only 2.4K, 2.7K, or 3.0K LEDs*² Standard Canopy Finish: Black (BK) if unspecified

CALIFORNIA ACCENT LIGHTING, INC.

2820 E. Gretta Lane, Anaheim, CA 92806

ph. 800.921.CALI (2254) | fx. 714.535.7902 | info@calilighting.com | calilighting.com

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L14
ML2000-CACA STRING LIGHTS

PROJECT

TYPE



END VIEW



ACCESSORIES (Sold Separately)

Power Plug
(ML2000-PP)End Cap
(ML2000-EC)

LAMP SPECIFICATIONS

LAMP NUMBER	CORRELATED COLOR TEMPERATURE	DARK SKY COMPLIANT	COMPATIBLE SHAPES
2.4K	2400K Incandescent White	Yes	GSFL
2.7K	2700K Warm White	Yes	GSF, GSFL, SSF, SSC
3.0K	3000K Warm White	Yes	GSFL
5.0K	5000K Cool White	No	GSF, GSFL, SSF, SSC
A	Amber	No	SSC, GSF
R	Red	No	SSC, GSF
G	Green	No	SSC, GSF
B	Blue	No	SSC, GSF

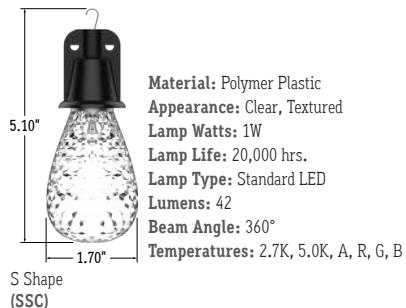
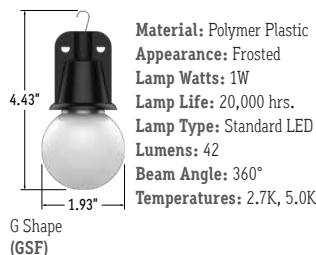
marketLITE™
Manufactured in the U.S.A.



CALIFORNIA
ACCENT
LIGHTING
INC

L14
ML2000-CACA STRING LIGHTS

LAMP OPTIONS



MOUNTING ACCESSORIES

(Sold Separately - Click on Image to View Cut Sheet, If Applicable)



Mounting Plate
(ML2000-MP)



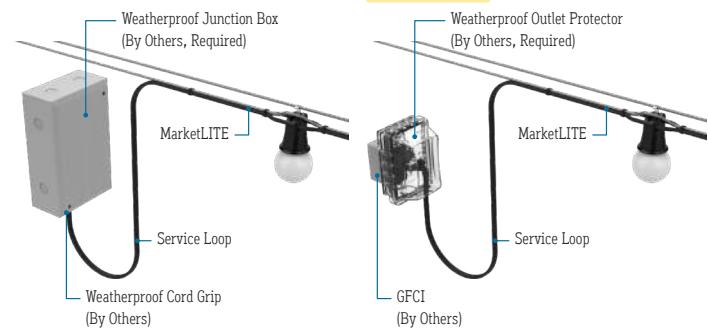
Cable Lock
(ML2000-CL-1/8'')



INSTALLATION RECOMMENDATIONS

- Determine weight of marketLITE that will be used.
- Determine length of marketLITE and multiply by weight.
- An engineer must choose the proper aircraft cable to handle the tension, based on length and weight to prevent product from sagging.
- An engineer must determine the strength of the structure where the cable will attach, based on tension calculation from previous step.
- If installing on a pole, check with pole manufacturer to confirm the pole can handle the tension.
- marketLITE is hung to the above aircraft cable using the hooks. Secure hooks to aircraft cable by crimping or using stainless steel tie wraps.
- The supplied aircraft cable is designed to prevent strain on the wire. An additional aircraft cable is required to hang marketLITE.

HARDWIRE INSTALLATION (Wet Location)



WEIGHT PER FOOT

SERIES	SPACING	WEIGHT
ML2000-CACA	12" O/C	0.62 lbs per foot
	18" O/C	0.45 lbs per foot
	24" O/C	0.37 lbs per foot
	36" O/C	0.28 lbs per foot
	48" O/C	0.24 lbs per foot
	60" O/C	0.22 lbs per foot

CALIFORNIA ACCENT LIGHTING, INC.

2820 E. Gretta Lane, Anaheim, CA 92806

ph. 800.921.CALI (2254) | fx. 714.535.7902 | info@calilighting.com | calilighting.com

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DESIGN GUIDELINES

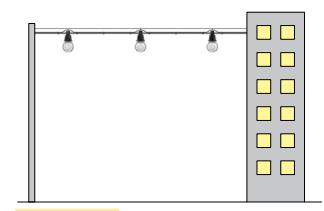
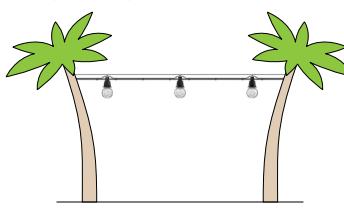
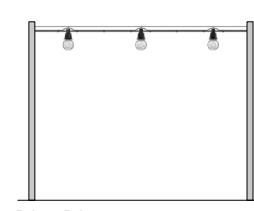
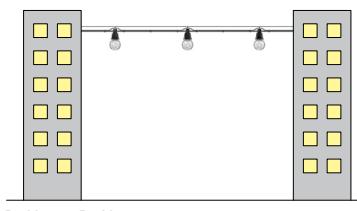
Straight Run



Swayed Run



INSTALLATION OPTIONS



marketLITE™
Manufactured in the U.S.A.



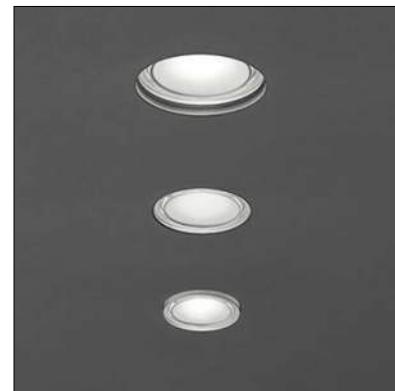
EYE 80 • EYE 125 • EYE 200

Recessed Version

EYE is a ceiling lamp that comes in a recessed or surface-mounted version with 3 sizes each. It offers high luminous efficiency and perfect luminance control with 3 optics options: spot, flood and wide flood.

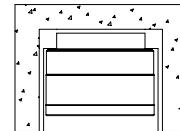
TECHNICAL DATA

Wattage	5W, 12W, 20W
Power Supply	Remote 24VDC - See page 2 (EYE 80) Remote 350mA (EYE 125), 500mA (EYE 200)
Construction	Body: Die-Cast Aluminum Lens: Extra Clear Glass Diffuser
CCT	3000K (2700K, 4000K on request)
BUG Rating	B1-U0-G0 (EYE 80 40° & 60°) B1-U1-G0 (EYE 125 40° & 60°) B2-U1-G0 (EYE 200 40° & 60°)
CRI	>90
Delivered Lumens	400 lm (EYE 80, 40°, 3000K) 950 lm (EYE 125, 40°, 3000K) 1400 lm (EYE 200, 40°, 3000K)
Efficacy	80 lm/W (EYE 80, 40°, 3000K) 63 lm/W (EYE 125, 40°, 3000K) 58 lm/W (EYE 200, 40°, 3000K)
Optics	20°, 40°, 60°
Finishes	4 Standard, See Below
Fixture Dimensions	Ø3.22" x 1.97" (EYE 80) Ø5.12" x 3.03" (EYE 125) Ø8.46" x 4.84" (EYE 200)
Aperature	Ø3.15" (EYE 80) Ø4.92" (EYE 125) Ø7.87" (EYE 200)
Lumen Maintenance	L70 >50,000hrs (Ta 40°C)
Color Consistency	3-Step MacAdam
IP Rating	IP65
Impact Resistance	IK08

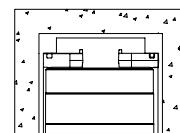


Fixture Dimensions - see page 2

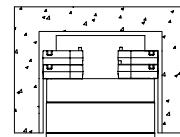
Installation Options (photos on page 3)



recessed installation



lush installation



protruding installation

ORDERING INFORMATION

Example: LNEY60ISOHB7ZU.US. Power Supplies / Accessories ordered separately.

LNEY				U	US
Model #	Size	Optics	Power	Finish	
LNEY	50 ISO - EYE 80 (5W) 60 ISO - EYE 125 (12W) 80 ISO - EYE 200 (20W)	S - 20° Spot F - 40° Flood W - 60° Wide Flood	HB7Z - Remote Driver (EYE 80) HB10 - Remote Driver (EYE 125/200)	U - White	US

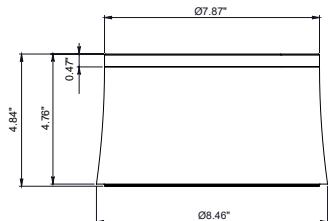
Job Name/Date:

Fixture Type Designation:

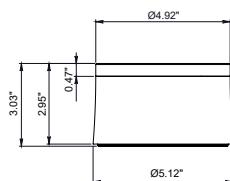
EYE 80 • EYE 125 • EYE 200

Recessed Version

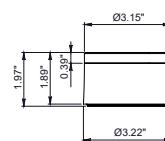
Fixture Dimensions



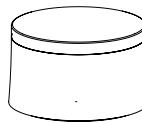
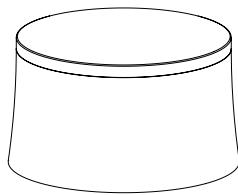
EYE 200



EYE 125



EYE80



Job Name/Date:

Fixture Type Designation:

EYE 80 • EYE 125 • EYE 200

Recessed Version

SUGGESTED POWER SUPPLIES

24VDC - EYE 80 (5W)

Part Number	Description	Input/Output	# of Fixtures - 5W
PPLT00149	Non-Dim	120VAC to 24VDC, 10W, Class 2, IP65	1-1
PPLT00632	0-10V Dimming (Dim to Off)	120-277VAC to 24VDC, 12W, Class 2	1-1
PPLT00155	Non-Dim	120VAC to 24VDC, 30W, Class 2	1-4
PPLT00599	ELV / TRIAC & 0-10V Dimming (100 to 0%)	120-277VAC to 24VDC, 96W, Class 2	1-15
PPLT00158	Non-Dim	120VAC to 24VDC, 100W, Class 2	1-16
PPLT00543	0-10V Dimming to 15% (-40°C / -40°F cold weather start)	120-277VAC to 24VDC, 100W, Class 2	2-16

Suggested Lutron Compatible - EYE 80 (5W)

Part Number	Option	Lutron SKU	Dim Range	Description	Input/Output	# of Fixtures
PPLT00500	LTEA2W	LTEA	100%-1%	Hi-Lume™ 1% 2-Wire LED Driver (120V forward phase only)	120VAC to 24VDC, 40W, Class 2	1-6
PPLT00273	L3DAE / L3DA3W	L3DA	100%-1%	Hi-Lume™ 1% EcoSystem™ or 1% 3-Wire LED Driver	120-277VAC to 24VDC, 40W, Class 2	1-6

350mA - EYE 125 (12W)

Part Number	Description			Input/Output	# of Fixtures - 12W
PPLT00468	Phase Dim (120V only)			120VAC to 350mA, 14W, Class 2	1-1
PPLT00308-P	0-10V Dimming to 0.1%			120-277VAC to 350mA, 30W, Class 2	1-1
PPLT00263	Leading / Trailing Edge Dimming to 10% (120V only)			120-277VAC to 350mA, 32W, Class 2	1-1
PPLT00538-P	0-10V Dimming to 0.1% (4 channels)			120-277VAC to 350mA, 100W, Class 2	11 (1-4)

Suggested Lutron Compatible - EYE 125 (12W)

Part Number	Option	Lutron SKU	Dim Range	Description	Input/Output	# of Fixtures
PPLT00271	LTEA2W	LTEA	100%-1%	Hi-Lume™ 1% 2-Wire LED Driver (120V forward phase only)	120VAC to 350mA, 13W, Class 2	1-1
PPLT00516	L3DAE / L3DA3W	L3DA	100%-1%	Hi-Lume™ 1% EcoSystem™ or 1% 3-Wire LED Driver	120-277VAC to 350mA, 13W, Class 2	1-1

500mA - EYE 200 (20W)

Part Number	Description			Input/Output	# of Fixtures - 20W
PPLT00527	Phase Dim (120V only)			120VAC to 500mA, 20W, Class 2, IP66	1-1
PPLT00308-P	0-10V Dimming to 0.1%			120-277VAC to 500mA, 30W, Class 2, DAMP	1-1
PPLT00262	Leading / Trailing Edge Dimming to 10% (120V only)			120-277VAC to 500mA, 32W, Class 2	1-1
PPLT00538-P	0-10V Dimming to 0.1% (4 channels)			120-277VAC to 500mA, 100W, Class 2	1-1 (1-4)

Suggested Lutron Compatible - EYE 200 (20W)

Part Number	Option	Lutron SKU	Dim Range	Description	Input/Output	# of Fixtures
PPLT00258	LTEA2W	LTEA	100%-1%	Hi-Lume™ 1% 2-Wire LED Driver (120V forward phase only)	120VAC to 500mA, 19W, Class 2	1-1
PPLT00195	L3DAE / L3DA3W	L3DA	100%-1%	Hi-Lume™ 1% EcoSystem™ or 1% 3-Wire LED Driver	120-277VAC to 500mA, 19W, Class 2	1-1

For other power supply options consult factory.

Job Name/Date:

Fixture Type Designation:

EYE 80 • EYE 125 • EYE 200

Recessed Version

INSTALLATION TYPES



Recessed - Threaded

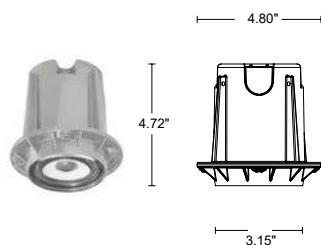
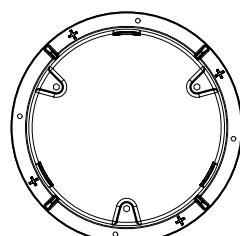
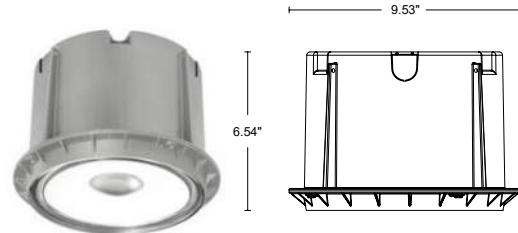
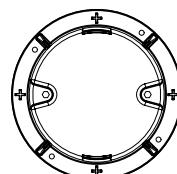
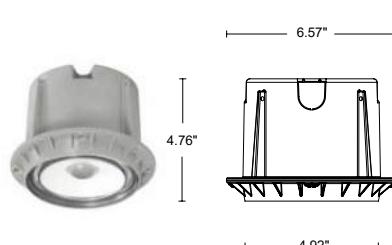


Regressed



Protruding - Trim

ACCESSORIES - Installation (included)

HOUSING BOX - *Included*

ACCESSORIES - Optional

00KEY50
Leveling Kit

010829600000
Plastering Rim

0303003
Suction Cup
to screw the glass

Job Name/Date:

Fixture Type Designation:

EYE 80 • EYE 125 • EYE 200

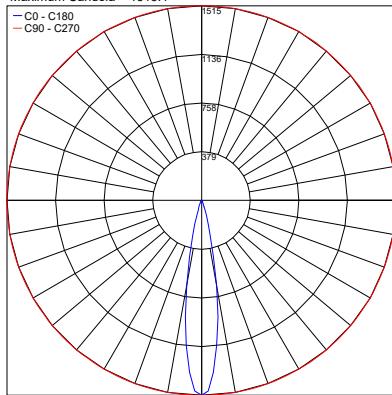
Recessed Version

PHOTOMETRIC DATA

Note: All photometric data is 3000K

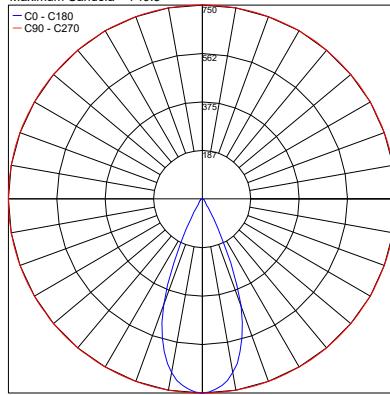
EYE 80

Maximum Candela = 1515.1



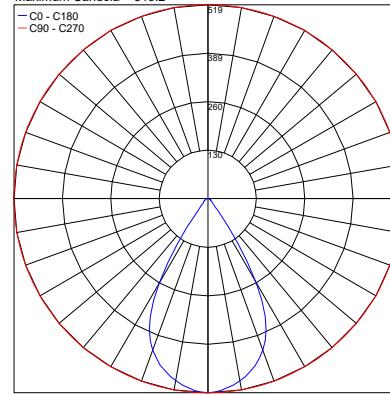
PHOTOMETRIC FILENAME : EYE 80 - EY50POSSXB7ZX - 20° 500MA 5W.IES

Maximum Candela = 749.8



PHOTOMETRIC FILENAME : EYE 80 - EY50POSFXB7ZX - 40° 500MA 5W.IES

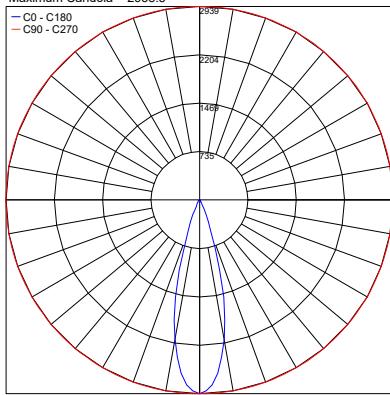
Maximum Candela = 519.2



PHOTOMETRIC FILENAME : EYE 80 - EY50POSWXB7ZX - 60° 500MA 5W.IES

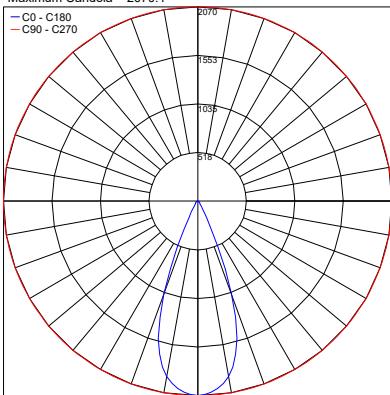
EYE 125

Maximum Candela = 2938.5



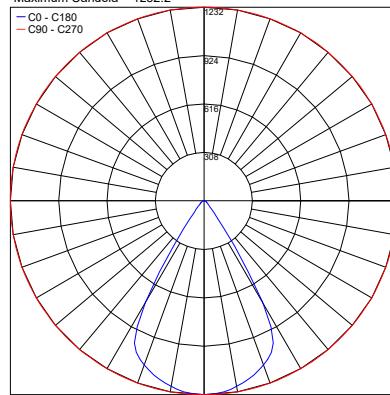
PHOTOMETRIC FILENAME : EYE 125 - EY60POSSXB10X 12W 20°.IES

Maximum Candela = 2070.1



PHOTOMETRIC FILENAME : EYE 125 - EY60POSFXB10X 12W 40°.IES

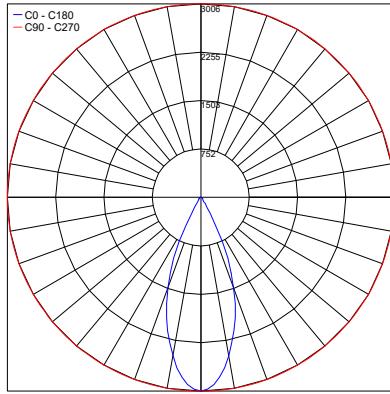
Maximum Candela = 1232.2



PHOTOMETRIC FILENAME : EYE 125 - EY60POSWXB10X 12W 60°.IES

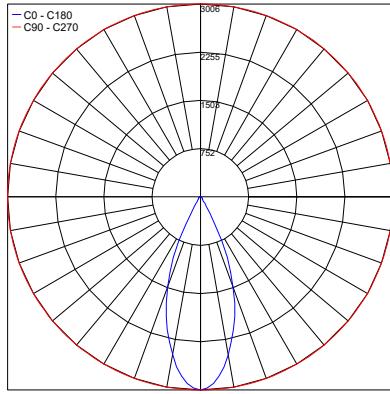
EYE 200

Maximum Candela = 3006.2

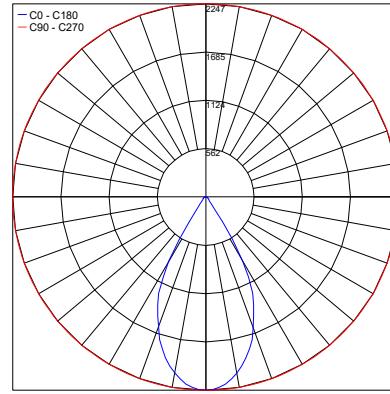


PHOTOMETRIC FILENAME : EYE 200 - EY80POSFXB10X 20W 20°.IES

Maximum Candela = 3006.2



Maximum Candela = 2247.0



PHOTOMETRIC FILENAME : EYE 200 - EY80POSWXB10X 20W 60°.IES

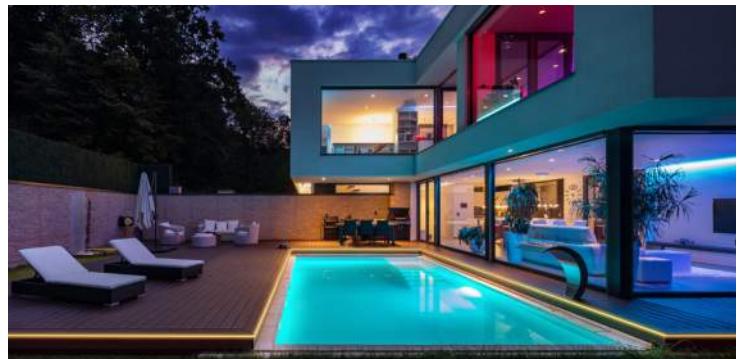
Job Name/Date:

Fixture Type Designation:

CHANNEL NEON 0.5" FLAT LENS

24VDC, OUTDOOR | 5W | STATIC WHITE, WARM DIM & TUNABLE WHITE

ASSEMBLED IN AMERICA



DESCRIPTION

Channel Neon is our Flex Neon fixture shipped within a channel for ease of installation. Channel Neon comes with a 0.5" wide Flat lens, offering superior color rendering while creating uniform illumination without visible diodes. May be surface or flush mounted. Choose from multiple color temperatures, including two Warm Dim options of 2400K (24D) or 2700K (27D) and Dynamic Tunable White (2K6K or 27K6). Tunable White 2000K-6500K (2K6K) or 2700K-6500K (27K6) grants independent control and adjustment of color temperature and intensity from 2000K (Sunset) through 6500K (Day Light White). **2K6K** is ideal for residential spaces including, dining rooms, bedrooms, living spaces, and bathrooms by allowing the user to achieve a warm glow during the golden hours of the early mornings and evenings. For commercial environments, **27K6** promotes focus and alertness which is ideal for offices, healthcare and education, while still achieving warmer color temperatures best for hospitality and retail environments. Use with two dimmers or, our proprietary Tunable White Controller (**CDMX-1**) for fast and accurate adjustment with three pre-set scenes (Ordered separately). The (**W**) is an IP67 rated wet location fixture featuring watertight barrel connections. Patent pending.

SPECIFICATIONS

INPUT	24VDC with 5" leads
POWER SUPPLIES	Remote 24VDC power supply required
POWER CONSUMPTION	5 watts per foot
INCREMENTS	2.4" or 3"
MAX LENGTH	5W - 10'
MATERIAL	UV Resistant PVC
OPERATING TEMPERATURE	-4° F (-20° C) to 122° F (+50° C)
AVERAGE LED LIFE	50,000 hrs
WARRANTY	5 Year pro-rated
COMPLIANCE	Class 2 Wiring Indoor Applications, Outdoor Wet Location with Water Tight Barrel Connectors IP67 Rated, ETL listed

LUMEN PERFORMANCE AT 2700K 5W PER FOOT

(SEE COMPLETE CHART PG 2)

LUMEN OUTPUT	212 lm/ft	EFFICIENCY	46 lm/watt
CRI	92	R9	76
Rf	89.5	Rg	98.3
BEAM ANGLE	120°	BEAM TOLERANCE	+/ - 30CCT

System	Viewing Angle	Model Shape	Wattage	Length in Inches	Color Temperature	5" Input Wire Feed	5" Output Wire	Environment
CN		F5	5W	120	27K	E	L	W
CN Channel Neon 24V	F5 Flat Lens 0.5" wide with channel 0.7" wide, 0.7" high	5W 5 watts per foot	6"-120" (10' max)	2.4" Increments Warm Dim 3" increments	22K 2200K Amber White 24K 2400K Very Warm White 24D 2400K Warm Dim, Dims to 1800K 27K 2700K Incandescent White 27D 2700K Warm Dim, Dims to 2000K 30K 3000K Warm White 35K 3500K Neutral White 40K 4000K Cool White 2K6K Tunable White 2000K-6500K 27K6 Tunable White 2700K-6500K	T Top Power Input Wire E End Power Input Wire L Left Power Input Wire R Right Power Input Wire B Bottom Power Input Wire	T Top Wire Lead Out E End Wire Lead Out L Left Wire Lead Out R Right Wire Lead Out B Bottom Wire Lead Out CA Cap at end, no feed through	W Outdoor wet location Barrel Connector cable leads

PROJECT	FIXTURE TYPE	DATE

CHANNEL NEON 0.5" FLAT LENS

24VDC, OUTDOOR | 5W | STATIC WHITE, WARM DIM & TUNABLE WHITE

NOMINAL LAMP DATA The average LED Life is 50,000 hours.

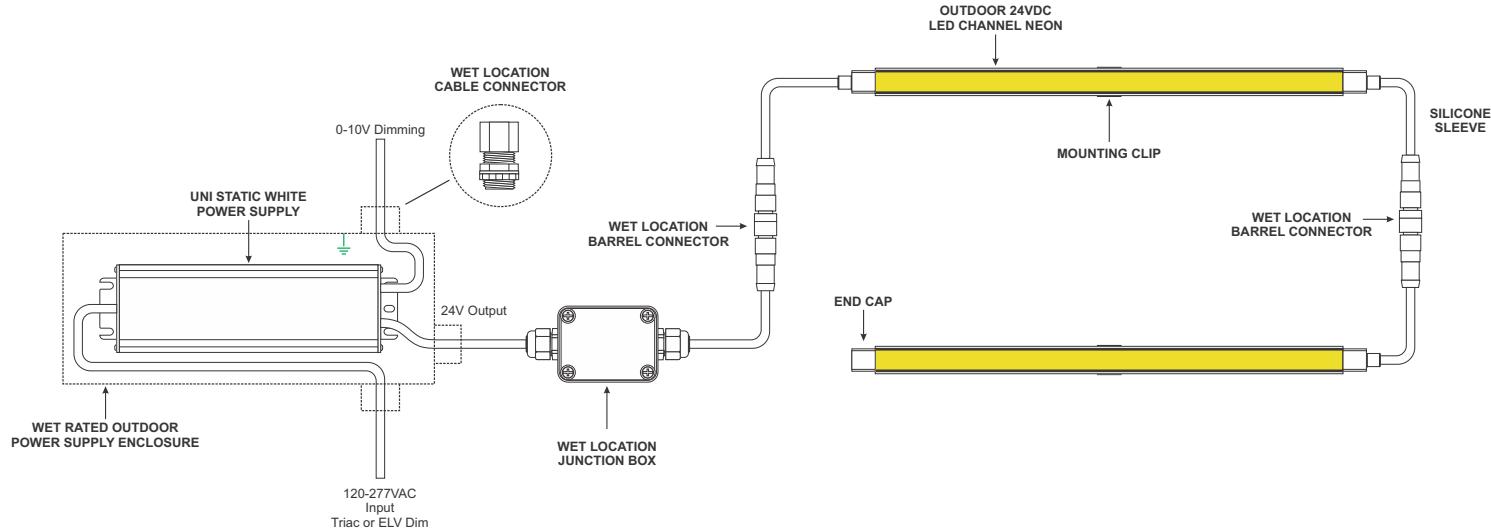
CN-F5							
WATTS PER FOOT	5w						
COLOR TEMPERATURE	22K	24K	24D*	27K	27D*	30K	35K
LUMENS PER FOOT (lm/ft)	174	184	271	212	271	232	265
LUMENS PER WATT (lm/w)	38	42	56	46	56	50	58
CRI	92	92	93	92	93	84	85

TUNABLE WHITE 2K6K							
WATTS PER FOOT	5w						
COLOR TEMPERATURE	18K	20K	24K	27K	30K	35K	40K
LUMENS PER FOOT (lm/ft)	170	157	175	191	213	238	188
LUMENS PER WATT (lm/w)	37	34	38	42	46	52	44
CRI	92	92	92	93	92	92	85

TUNABLE WHITE 27K6*							
WATTS PER FOOT	5w						
COLOR TEMPERATURE	24K	27K	30K	35K	40K	54K	63K
LUMENS PER FOOT (lm/ft)	164	168	174	181	188	177	180
LUMENS PER WATT (lm/w)	41	42	43	44	44	44	45
CRI	92	93	92	92	84	84	85

*Warm Dim & Tunable White has a variance in color temperature due to the curvature of the material.

Drawings: Dimensions for the Channel Neon



PROJECT	FIXTURE TYPE	DATE

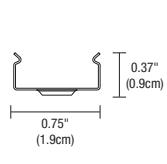
CHANNEL NEON 0.5" FLAT LENS

24VDC, OUTDOOR | 5W | STATIC WHITE, WARM DIM & TUNABLE WHITE

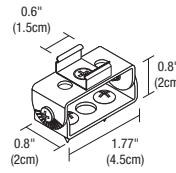
Accessories: Indoor Light Channel .6 Surface Mount, order based on lighting design or as replacement parts



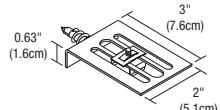
LCS.6-MCL



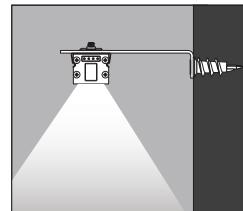
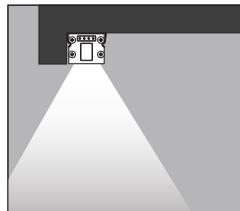
LCS.6-MCL



LCS.6-MCL-075



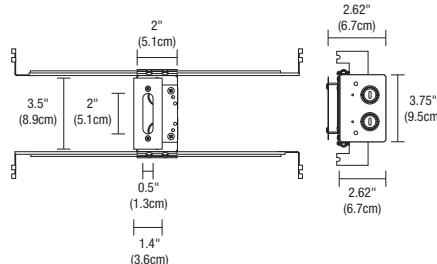
LCS.6-MCL-90



MOUNTING CLIPS

LC-MCL mounting clips are provided with every two feet of Light Channel and may be ordered separately as replacement parts. The LC-MCL-075 rotates Light Channel up to 75°. LC-MCL-90 mounts Light Channel at a 90° angle.

System	Product	Type
LCS.6	MCL	Standard (Leave Blank)
LCS.6 Light Channel 0.6" Surface Mount	MCL Mounting Clip	075 Adjusts 0-75° 90 Adjusts 90°



1" RECTANGLE CANOPY & J-BOX

The Slim-Profile Junction Box with Hanger Bars mounts to studs spaced between 14.5" and 25" apart behind drywall. Allows low voltage DC wires from Remote Power Supply to connect to channel wires. The Junction Box opening is covered by the fixture for a clean, safe connection. Includes a Goof Plate, for poor plastering around J-box.

Channel	Canopy	Product
C	1RE	JBOX
1RE 1" Rectangle	JBOX Junction Box	



TIE STRAP

Use for mounting to poles for extra support, every 6"-12" (30 per package).

Product	Type
SS	ST

SS LED Flex Neon ST Tie Strap



DIRECT BURIAL LOCATION CABLE ORDER PER FOOT

Our Direct Burial, 2 Conductor Plus ground, 12 Gauge Cable is a durable and adaptable cable suitable for transmitting power, control, and switching in outdoor wet and in ground environments. Keep within 60 ft between fixture and power supply. Cable sold by the foot, simply specify the length needed by the foot.

Product	Gauge	Cable
DB	12G	2C

DB Direct Burial 12G 12 Gauge 2C 2 Conductor



WET AND DAMP LOCATION CABLE ORDER PER FOOT

Our Wet Location, 5 Conductor, 14 Gauge Cable is a durable and adaptable cable suitable for transmitting power, control, and switching in indoor and outdoor wet and damp environments. Cable sold by the foot, simply specify the length. Keep within 50 ft between fixture and power supply.

Product	Gauge	Cable
OC	14G	5C

OC Outdoor Cable 14G 14 Gauge 5C 5 Conductor

PROJECT

FIXTURE TYPE

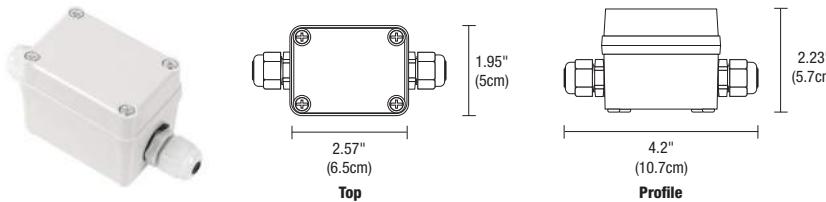
DATE

CHANNEL NEON 0.5" FLAT LENS

24VDC, OUTDOOR | 5W | STATIC WHITE, WARM DIM & TUNABLE WHITE

WET LOCATION JUNCTION BOX

Wet-rated low voltage Splice Box with connectors.



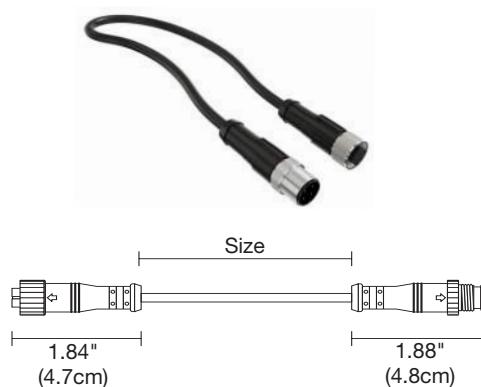
Product	Type	Option
2RE - JBOX - W	2RE 2" Rectangle JBOX Junction Box W Wet Location	



WET LOCATION JUNCTION BOX WITH 6" POWER CABLE

This watertight, multi-fixture Junction Box is especially designed for lighting in wet and damp locations. It is versatile, rugged and simple to install. The Junction Box comes standard with a 6" Flexible Cable providing easy, safe, and reliable connections for 24V low voltage luminaires. This box is approved for indoor and outdoor usage and complies with all the requirements of UL1241 and the National Electric Code.

Product	Canopy	Product	Size	Option
SS - 2RE - JBOX - 6IN - W	SS LED Soft Strip Flex Neon 2RE 2" Rectangle JBOX Junction Box 6IN 6" Four Wire Connection W Wet Location			



POWER CABLE CONNECTOR WET LOCATION

The flexible power cable connector is designed to work in outdoor environments for safe and reliable connections. This Flexible Connector is easy to install and configure, helping you create innovative lighting designs in an outdoor commercial or residential space.

Product	Type	Size	Option
SS - CFX - 12IN - W	SS Soft Strip and Flex Neon CFX Flexible 4 Wire Connector 12IN 12" 96IN 96" W Wet Location		



WET LOCATION T-CONNECTOR

Our Wet Location T-Connector is a robust rugged design especially suited to withstand the challenges of damp and wet environments. This unique T-Connector has one Male and two Female Connectors and is suitable for multiple indoor and outdoor uses. Versatile design is easy to use, making installation quick and efficient.

Product	Type	Option
SS - TC - W	SS Soft Strip and Flex Neon TC T-Connector 4 Wire W Wet Location	

PROJECT	FIXTURE TYPE	DATE
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TM30 DATA

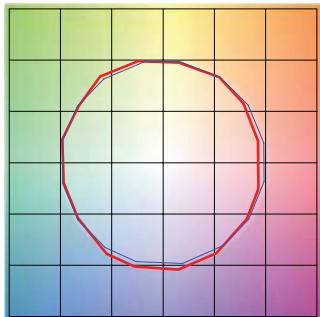
24VDC, OUTDOOR | 5W | STATIC WHITE, WARM DIM & DYNAMIC/TUNABLE WHITE

REV 12.02.21

TM-30-15 DATA: The data below is for ST2A, ST5A, ST7A and ST10A bare LED Soft Strips. Consistent color temperatures throughout a single strip and among multiple strips is possible through a 3 phase binning process in which each order is inspected with a color meter to ensure uniformity.

2200K | Rf: 90.5 | Rg: 99.9

Color Vector Graphic

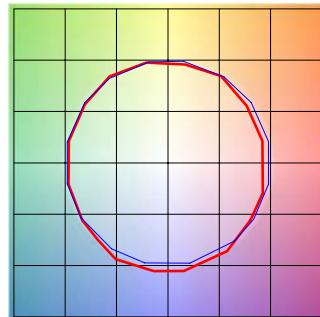


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	88.3	-5.2%	1.0%
2	90.1	-3.6%	3.7%
3	87.5	-0.5%	5.6%
4	93.9	-1.2%	1.3%
5	94.7	0.7%	2.1%
6	93.7	2.6%	0.7%
7	93.5	-1.5%	-2.2%
8	97.8	-0.4%	-0.2%
9	93.7	-1.5%	2.4%
10	90.8	-0.8%	4.9%
11	89.3	3.7%	5.4%
12	90.2	4.6%	1.0%
13	89.0	4.4%	-9.7%
14	75.4	0.6%	-15.1%
15	90.7	-1.7%	-5.0%
16	84.2	-4.4%	-9.1%

2400K | Rf: 90.2 | Rg: 99.3

Color Vector Graphic

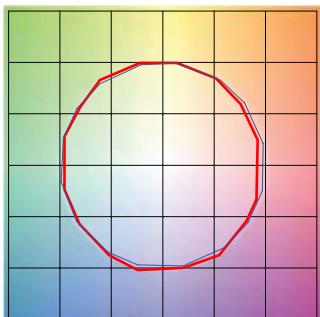


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	89.0	-4.8%	1.1%
2	90.4	-3.7%	3.2%
3	88.1	-0.7%	5.2%
4	93.0	-2.1%	0.9%
5	94.5	-0.1%	2.0%
6	94.7	1.7%	0.6%
7	93.7	-1.9%	-1.5%
8	96.8	-1.2%	0.2%
9	91.9	-1.8%	3.7%
10	88.8	-0.9%	6.1%
11	87.5	3.8%	7.1%
12	89.6	4.3%	0.3%
13	88.1	4.2%	-9.1%
14	82.5	2.8%	-10.6%
15	91.4	-2.1%	-4.2%
16	84.0	-3.6%	-9.9%

2700K | Rf: 89.5 | Rg: 98.3

Color Vector Graphic

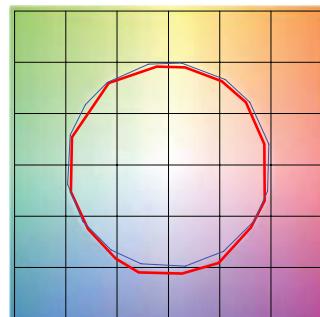


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	88.6	-5.2%	0.9%
2	90.3	-3.6%	2.9%
3	88.4	-1.5%	5.0%
4	91.9	-2.5%	1.4%
5	93.5	-0.9%	2.3%
6	95.7	0.9%	-0.4%
7	91.1	-3.7%	-0.5%
8	95.8	-2.0%	0.4%
9	90.5	-2.6%	4.5%
10	84.9	-1.1%	8.7%
11	85.0	2.3%	9.8%
12	88.1	5.5%	1.5%
13	90.9	2.9%	-5.2%
14	86.2	4.3%	-8.9%
15	90.7	-2.4%	-3.6%
16	83.0	-2.7%	-11.3%

3000K | Rf: 88.7 | Rg: 98.2

Color Vector Graphic

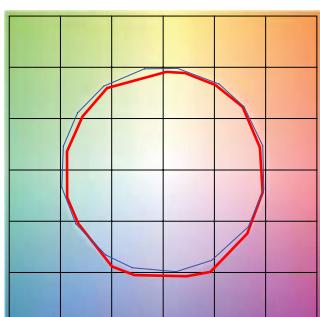


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	88.3	-5.2%	0.8%
2	90.2	-3.7%	2.7%
3	88.3	-1.6%	4.9%
4	92.2	-2.0%	1.8%
5	91.0	-3.5%	1.8%
6	95.8	0.4%	-0.4%
7	90.2	-4.4%	-0.0%
8	94.8	-2.6%	0.8%
9	89.2	-2.9%	6.0%
10	81.4	-1.5%	9.7%
11	82.9	2.3%	10.5%
12	88.3	6.7%	1.9%
13	91.9	2.8%	-4.0%
14	86.3	4.9%	-8.3%
15	87.1	-1.2%	-6.1%
16	83.2	-1.7%	-11.6%

3500K | Rf: 88.1 | Rg: 97.1

Color Vector Graphic

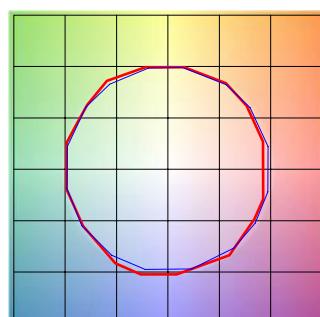


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	87.8	-5.2%	1.0%
2	90.8	-3.3%	2.3%
3	89.8	-1.6%	3.9%
4	91.0	-2.7%	0.9%
5	90.0	-5.4%	0.7%
6	95.6	-0.9%	-0.4%
7	90.0	-5.3%	1.4%
8	91.8	-3.6%	3.0%
9	87.1	-2.9%	7.3%
10	80.1	-1.3%	12.2%
11	81.8	4.1%	10.5%
12	88.2	5.1%	2.3%
13	92.4	2.1%	-3.8%
14	86.6	5.0%	-7.9%
15	86.2	-0.7%	-6.8%
16	84.5	-2.1%	-7.0%

2700D | Rf: 90.7 | Rg: 101.1

Color Vector Graphic



■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	90.9	-4.1%	1.1%
2	91.8	-2.2%	3.2%
3	89.0	0.2%	5.0%
4	92.9	-1.1%	0.8%
5	93.9	1.1%	1.7%
6	93.3	3.3%	0.0%
7	93.1	-0.5%	-1.9%
8	97.2	-0.3%	-0.9%
9	93.4	-1.0%	3.2%
10	89.9	-0.1%	5.6%
11	87.0	4.7%	7.2%
12	89.2	5.8%	-0.2%
13	89.1	3.5%	-6.7%
14	86.3	4.1%	-9.2%
15	91.4	-2.0%	-3.6%
16	84.7	-2.1%	-10.3%

PROJECT	Fixture Type	DATE

TM30 DATA

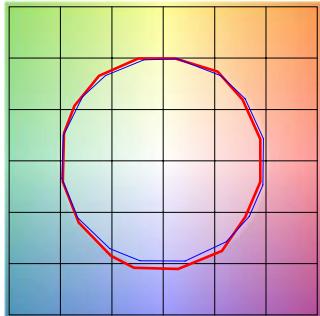
24VDC, OUTDOOR | 5W | STATIC WHITE, WARM DIM & DYNAMIC/TUNABLE WHITE

REV 12.02.21

TM-30-15 DATA: The data below is for ST2A, ST5A, ST7A and ST10A bare LED Soft Strips. Consistent color temperatures throughout a single strip and among multiple strips is possible through a 3 phase binning process in which each order is inspected with a color meter to ensure uniformity.

3000D | Rf: 90.6 | Rg: 101.1

Color Vector Graphic

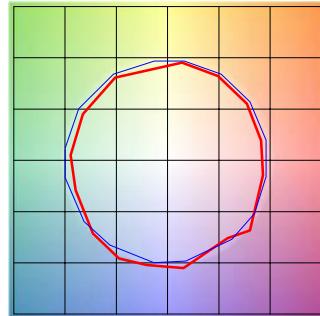


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	91.5	-3.5%	1.3%
2	92.2	-1.8%	3.0%
3	89.3	0.5%	4.8%
4	92.7	-1.1%	0.6%
5	93.3	0.5%	1.4%
6	93.8	2.7%	-0.8%
7	91.2	-2.1%	-0.2%
8	97.0	-0.5%	-0.7%
9	92.5	-0.7%	3.8%
10	88.3	0.9%	7.1%
11	87.5	3.9%	7.6%
12	88.2	6.2%	-0.2%
13	89.9	3.4%	-6.0%
14	86.9	4.4%	-8.5%
15	91.9	-1.9%	-2.9%
16	84.7	-1.3%	-10.6%

6500K ONLY (27K6) | Rf: 86.8 | Rg: 96.8

Color Vector Graphic



■ Test ■ Reference

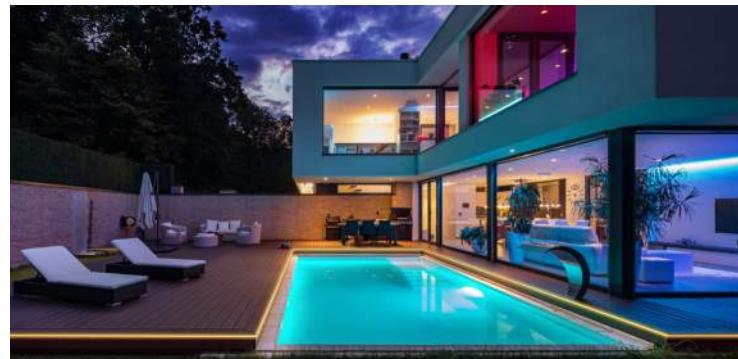
HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	86.5	-4.7%	0.8%
2	91.9	-2.5%	3.1%
3	91.2	-2.0%	1.9%
4	91.2	-1.6%	1.4%
5	85.7	-6.2%	-0.9%
6	92.9	-3.5%	-1.0%
7	92.1	-4.7%	0.7%
8	85.2	-5.8%	4.9%
9	82.8	-6.2%	14.3%
10	77.1	-0.7%	15%
11	72.1	5.8%	14.1%
12	91.6	4.0%	1.0%
13	89.9	5.6%	-2.3%
14	90.5	-1.8%	-3.7%
15	81.6	6.5%	-13.9%
16	92.8	-3.6%	-0.4%

PROJECT		Fixture Type		DATE	
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CHANNEL NEON 0.5" FLAT LENS

24VDC, OUTDOOR | 5W | STATIC WHITE, WARM DIM & TUNABLE WHITE

ASSEMBLED IN AMERICA



DESCRIPTION

Channel Neon is our Flex Neon fixture shipped within a channel for ease of installation. Channel Neon comes with a 0.5" wide Flat lens, offering superior color rendering while creating uniform illumination without visible diodes. May be surface or flush mounted. Choose from multiple color temperatures, including two Warm Dim options of 2400K (24D) or 2700K (27D) and Dynamic Tunable White (2K6K or 27K6). Tunable White 2000K-6500K (2K6K) or 2700K-6500K (27K6) grants independent control and adjustment of color temperature and intensity from 2000K (Sunset) through 6500K (Day Light White). **2K6K** is ideal for residential spaces including, dining rooms, bedrooms, living spaces, and bathrooms by allowing the user to achieve a warm glow during the golden hours of the early mornings and evenings. For commercial environments, **27K6** promotes focus and alertness which is ideal for offices, healthcare and education, while still achieving warmer color temperatures best for hospitality and retail environments. Use with two dimmers or, our proprietary Tunable White Controller (**CDMX-1**) for fast and accurate adjustment with three pre-set scenes (Ordered separately). The (**W**) is an IP67 rated wet location fixture featuring watertight barrel connections. Patent pending.

SPECIFICATIONS

INPUT	24VDC with 5" leads
POWER SUPPLIES	Remote 24VDC power supply required
POWER CONSUMPTION	5 watts per foot
INCREMENTS	2.4" or 3"
MAX LENGTH	5W - 10'
MATERIAL	UV Resistant PVC
OPERATING TEMPERATURE	-4° F (-20° C) to 122° F (+50° C)
AVERAGE LED LIFE	50,000 hrs
WARRANTY	5 Year pro-rated
COMPLIANCE	Class 2 Wiring Indoor Applications, Outdoor Wet Location with Water Tight Barrel Connectors IP67 Rated, ETL listed

LUMEN PERFORMANCE AT 2700K 5W PER FOOT

(SEE COMPLETE CHART PG 2)

LUMEN OUTPUT	212 lm/ft	EFFICIENCY	46 lm/watt
CRI	92	R9	76
Rf	89.5	Rg	98.3
BEAM ANGLE	120°	BEAM TOLERANCE	+/ - 30CCT

System	Viewing Angle	Model Shape	Wattage	Length in Inches	Color Temperature	5" Input Wire Feed	5" Output Wire	Environment
CN		F5	5W	120	27K	E	L	W
CN Channel Neon 24V	F5 Flat Lens 0.5" wide with channel 0.7" wide, 0.7" high	5W 5 watts per foot	6"-120" (10' max)	2.4" Increments Warm Dim 3" increments	22K 2200K Amber White 24K 2400K Very Warm White 24D 2400K Warm Dim, Dims to 1800K 27K 2700K Incandescent White 27D 2700K Warm Dim, Dims to 2000K 30K 3000K Warm White 35K 3500K Neutral White 40K 4000K Cool White 2K6K Tunable White 2000K-6500K 27K6 Tunable White 2700K-6500K	T Top Power Input Wire E End Power Input Wire L Left Power Input Wire R Right Power Input Wire B Bottom Power Input Wire	T Top Wire Lead Out E End Wire Lead Out L Left Wire Lead Out R Right Wire Lead Out B Bottom Wire Lead Out CA Cap at end, no feed through	W Outdoor wet location Barrel Connector cable leads

PROJECT	FIXTURE TYPE	DATE

CHANNEL NEON 0.5" FLAT LENS

24VDC, OUTDOOR | 5W | STATIC WHITE, WARM DIM & TUNABLE WHITE

NOMINAL LAMP DATA The average LED Life is 50,000 hours.

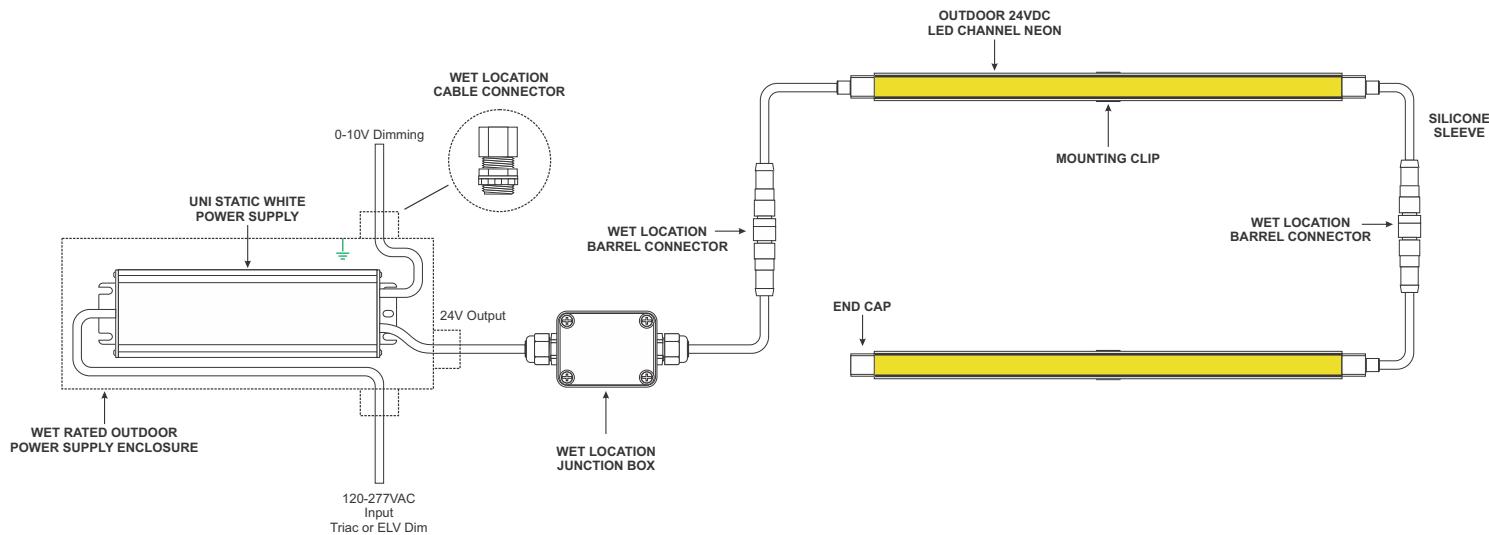
CN-F5							
WATTS PER FOOT	5w						
COLOR TEMPERATURE	22K	24K	24D*	27K	27D*	30K	35K
LUMENS PER FOOT (lm/ft)	174	184	271	212	271	232	265
LUMENS PER WATT (lm/w)	38	42	56	46	56	50	58
CRI	92	92	93	92	93	84	85

TUNABLE WHITE 2K6K							
WATTS PER FOOT	5w						
COLOR TEMPERATURE	18K	20K	24K	27K	30K	35K	40K
LUMENS PER FOOT (lm/ft)	170	157	175	191	213	238	188
LUMENS PER WATT (lm/w)	37	34	38	42	46	52	44
CRI	92	92	92	93	92	92	85

TUNABLE WHITE 27K6*							
WATTS PER FOOT	5w						
COLOR TEMPERATURE	24K	27K	30K	35K	40K	54K	63K
LUMENS PER FOOT (lm/ft)	164	168	174	181	188	177	180
LUMENS PER WATT (lm/w)	41	42	43	44	44	44	45
CRI	92	93	92	92	84	84	85

*Warm Dim & Tunable White has a variance in color temperature due to the curvature of the material.

Drawings: Dimensions for the Channel Neon



PROJECT	FIXTURE TYPE	DATE

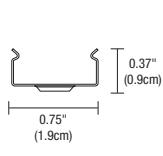
CHANNEL NEON 0.5" FLAT LENS

24VDC, OUTDOOR | 5W | STATIC WHITE, WARM DIM & TUNABLE WHITE

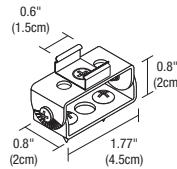
Accessories: Indoor Light Channel .6 Surface Mount, order based on lighting design or as replacement parts



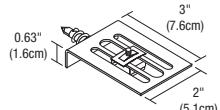
LCS.6-MCL



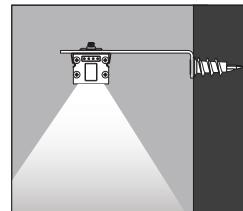
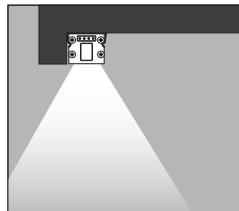
LCS.6-MCL



LCS.6-MCL-075



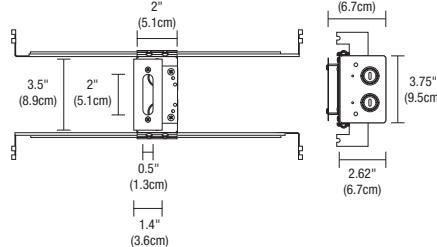
LCS.6-MCL-90



MOUNTING CLIPS

LC-MCL mounting clips are provided with every two feet of Light Channel and may be ordered separately as replacement parts. The LC-MCL-075 rotates Light Channel up to 75°. LC-MCL-90 mounts Light Channel at a 90° angle.

System	Product	Type
LCS.6	MCL	Standard (Leave Blank)
LCS.6 Light Channel 0.6" Surface Mount	MCL Mounting Clip	075 Adjusts 0-75° 90 Adjusts 90°



1" RECTANGLE CANOPY & J-BOX

The Slim-Profile Junction Box with Hanger Bars mounts to studs spaced between 14.5" and 25" apart behind drywall. Allows low voltage DC wires from Remote Power Supply to connect to channel wires. The Junction Box opening is covered by the fixture for a clean, safe connection. Includes a Goof Plate, for poor plastering around J-box.

Channel	Canopy	Product
C	1RE	JBOX
1RE 1" Rectangle	JBOX Junction Box	



TIE STRAP

Use for mounting to poles for extra support, every 6"-12" (30 per package).

Product	Type
SS	ST

SS LED Flex Neon ST Tie Strap



DIRECT BURIAL LOCATION CABLE ORDER PER FOOT

Our Direct Burial, 2 Conductor Plus ground, 12 Gauge Cable is a durable and adaptable cable suitable for transmitting power, control, and switching in outdoor wet and in ground environments. Keep within 60 ft between fixture and power supply. Cable sold by the foot, simply specify the length needed by the foot.

Product	Gauge	Cable
DB	12G	2C

DB Direct Burial 12G 12 Gauge 2C 2 Conductor



WET AND DAMP LOCATION CABLE ORDER PER FOOT

Our Wet Location, 5 Conductor, 14 Gauge Cable is a durable and adaptable cable suitable for transmitting power, control, and switching in indoor and outdoor wet and damp environments. Cable sold by the foot, simply specify the length. Keep within 50 ft between fixture and power supply.

Product	Gauge	Cable
OC	14G	5C

OC Outdoor Cable 14G 14 Gauge 5C 5 Conductor

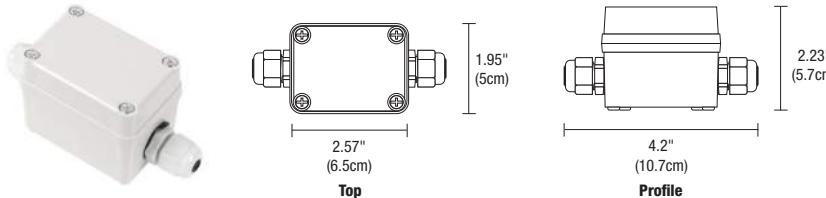
PROJECT	FIXTURE TYPE	DATE

CHANNEL NEON 0.5" FLAT LENS

24VDC, OUTDOOR | 5W | STATIC WHITE, WARM DIM & TUNABLE WHITE

WET LOCATION JUNCTION BOX

Wet-rated low voltage Splice Box with connectors.



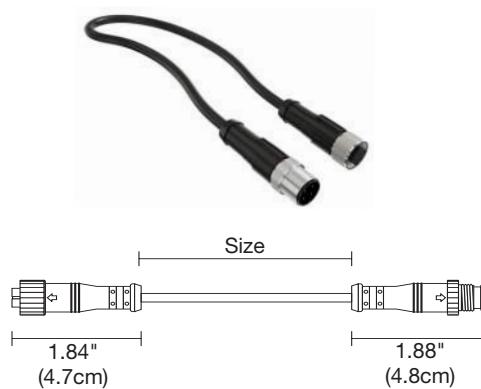
Product	Type	Option
2RE - JBOX - W	2RE 2" Rectangle JBOX Junction Box W Wet Location	



WET LOCATION JUNCTION BOX WITH 6" POWER CABLE

This watertight, multi-fixture Junction Box is especially designed for lighting in wet and damp locations. It is versatile, rugged and simple to install. The Junction Box comes standard with a 6" Flexible Cable providing easy, safe, and reliable connections for 24V low voltage luminaires. This box is approved for indoor and outdoor usage and complies with all the requirements of UL1241 and the National Electric Code.

Product	Canopy	Product	Size	Option
SS - 2RE - JBOX - 6IN - W	SS LED Soft Strip Flex Neon 2RE 2" Rectangle JBOX Junction Box 6IN 6" Four Wire Connection W Wet Location			



POWER CABLE CONNECTOR WET LOCATION

The flexible power cable connector is designed to work in outdoor environments for safe and reliable connections. This Flexible Connector is easy to install and configure, helping you create innovative lighting designs in an outdoor commercial or residential space.

Product	Type	Size	Option
SS - CFX - 12IN - W	SS Soft Strip and Flex Neon CFX Flexible 4 Wire Connector 12IN 12" 96IN 96" W Wet Location		



WET LOCATION T-CONNECTOR

Our Wet Location T-Connector is a robust rugged design especially suited to withstand the challenges of damp and wet environments. This unique T-Connector has one Male and two Female Connectors and is suitable for multiple indoor and outdoor uses. Versatile design is easy to use, making installation quick and efficient.

Product	Type	Option
SS - TC - W	SS Soft Strip and Flex Neon TC T-Connector 4 Wire W Wet Location	

PROJECT	FIXTURE TYPE	DATE
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TM30 DATA

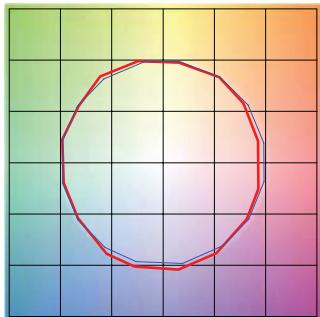
24VDC, OUTDOOR | 5W | STATIC WHITE, WARM DIM & DYNAMIC/TUNABLE WHITE

REV 12.02.21

TM-30-15 DATA: The data below is for ST2A, ST5A, ST7A and ST10A bare LED Soft Strips. Consistent color temperatures throughout a single strip and among multiple strips is possible through a 3 phase binning process in which each order is inspected with a color meter to ensure uniformity.

2200K | Rf: 90.5 | Rg: 99.9

Color Vector Graphic

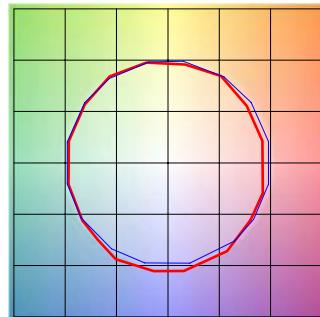


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	88.3	-5.2%	1.0%
2	90.1	-3.6%	3.7%
3	87.5	-0.5%	5.6%
4	93.9	-1.2%	1.3%
5	94.7	0.7%	2.1%
6	93.7	2.6%	0.7%
7	93.5	-1.5%	-2.2%
8	97.8	-0.4%	-0.2%
9	93.7	-1.5%	2.4%
10	90.8	-0.8%	4.9%
11	89.3	3.7%	5.4%
12	90.2	4.6%	1.0%
13	89.0	4.4%	-9.7%
14	75.4	0.6%	-15.1%
15	90.7	-1.7%	-5.0%
16	84.2	-4.4%	-9.1%

2400K | Rf: 90.2 | Rg: 99.3

Color Vector Graphic

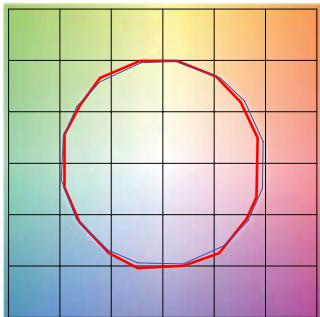


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	89.0	-4.8%	1.1%
2	90.4	-3.7%	3.2%
3	88.1	-0.7%	5.2%
4	93.0	-2.1%	0.9%
5	94.5	-0.1%	2.0%
6	94.7	1.7%	0.6%
7	93.7	-1.9%	-1.5%
8	96.8	-1.2%	0.2%
9	91.9	-1.8%	3.7%
10	88.8	-0.9%	6.1%
11	87.5	3.8%	7.1%
12	89.6	4.3%	0.3%
13	88.1	4.2%	-9.1%
14	82.5	2.8%	-10.6%
15	91.4	-2.1%	-4.2%
16	84.0	-3.6%	-9.9%

2700K | Rf: 89.5 | Rg: 98.3

Color Vector Graphic

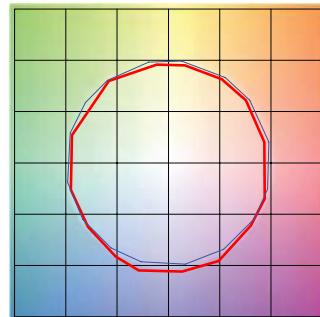


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	88.6	-5.2%	0.9%
2	90.3	-3.6%	2.9%
3	88.4	-1.5%	5.0%
4	91.9	-2.5%	1.4%
5	93.5	-0.9%	2.3%
6	95.7	0.9%	-0.4%
7	91.1	-3.7%	-0.5%
8	95.8	-2.0%	0.4%
9	90.5	-2.6%	4.5%
10	84.9	-1.1%	8.7%
11	85.0	2.3%	9.8%
12	88.1	5.5%	1.5%
13	90.9	2.9%	-5.2%
14	86.2	4.3%	-8.9%
15	90.7	-2.4%	-3.6%
16	83.0	-2.7%	-11.3%

3000K | Rf: 88.7 | Rg: 98.2

Color Vector Graphic

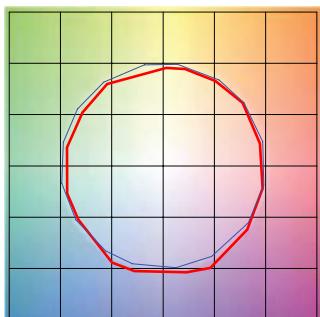


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	88.3	-5.2%	0.8%
2	90.2	-3.7%	2.7%
3	88.3	-1.6%	4.9%
4	92.2	-2.0%	1.8%
5	91.0	-3.5%	1.8%
6	95.8	0.4%	-0.4%
7	90.2	-4.4%	-0.0%
8	94.8	-2.6%	0.8%
9	89.2	-2.9%	6.0%
10	81.4	-1.5%	9.7%
11	82.9	2.3%	10.5%
12	88.3	6.7%	1.9%
13	91.9	2.8%	-4.0%
14	86.3	4.9%	-8.3%
15	87.1	-1.2%	-6.1%
16	83.2	-1.7%	-11.6%

3500K | Rf: 88.1 | Rg: 97.1

Color Vector Graphic

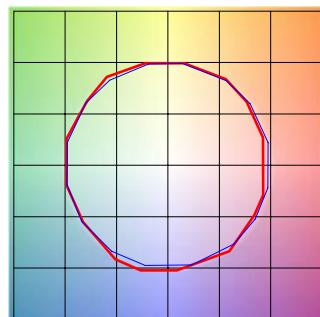


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	87.8	-5.2%	1.0%
2	90.8	-3.3%	2.3%
3	89.8	-1.6%	3.9%
4	91.0	-2.7%	0.9%
5	90.0	-5.4%	0.7%
6	95.6	-0.9%	-0.4%
7	90.0	-5.3%	1.4%
8	91.8	-3.6%	3.0%
9	87.1	-2.9%	7.3%
10	80.1	-1.3%	12.2%
11	81.8	4.1%	10.5%
12	88.2	5.1%	2.3%
13	92.4	2.1%	-3.8%
14	86.6	5.0%	-7.9%
15	86.2	-0.7%	-6.8%
16	84.5	-2.1%	-7.0%

2700D | Rf: 90.7 | Rg: 101.1

Color Vector Graphic



■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	90.9	-4.1%	1.1%
2	91.8	-2.2%	3.2%
3	89.0	0.2%	5.0%
4	92.9	-1.1%	0.8%
5	93.9	1.1%	1.7%
6	93.3	3.3%	0.0%
7	93.1	-0.5%	-1.9%
8	97.2	-0.3%	-0.9%
9	93.4	-1.0%	3.2%
10	89.9	-0.1%	5.6%
11	87.0	4.7%	7.2%
12	89.2	5.8%	-0.2%
13	89.1	3.5%	-6.7%
14	86.3	4.1%	-9.2%
15	91.4	-2.0%	-3.6%
16	84.7	-2.1%	-10.3%

PROJECT	Fixture Type	DATE

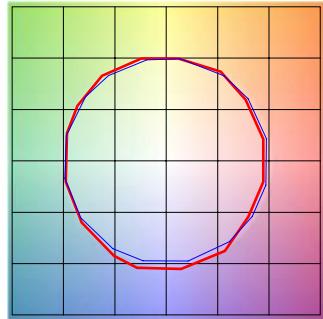
TM30 DATA

24VDC, OUTDOOR | 5W | STATIC WHITE, WARM DIM & DYNAMIC/TUNABLE WHITE

TM-30-15 DATA: The data below is for ST2A, ST5A, ST7A and ST10A bare LED Soft Strips. Consistent color temperatures throughout a single strip and among multiple strips is possible through a 3 phase binning process in which each order is inspected with a color meter to ensure uniformity.

3000D | Rf: 90.6 | Rg: 101.1

Color Vector Graphic

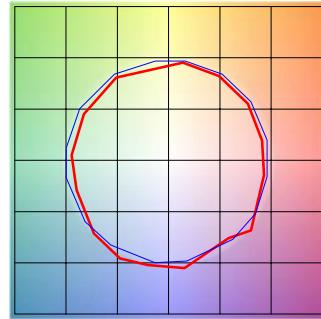


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	91.5	-3.5%	1.3%
2	92.2	-1.8%	3.0%
3	89.3	0.5%	4.8%
4	92.7	-1.1%	0.6%
5	93.3	0.5%	1.4%
6	93.8	2.7%	-0.8%
7	91.2	-2.1%	-0.2%
8	97.0	-0.5%	-0.7%
9	92.5	-0.7%	3.8%
10	88.3	0.9%	7.1%
11	87.5	3.9%	7.6%
12	88.2	6.2%	-0.2%
13	89.9	3.4%	-6.0%
14	86.9	4.4%	-8.5%
15	91.9	-1.9%	-2.9%
16	84.7	-1.3%	-10.6%

6500K ONLY (27K6) | Rf: 86.8 | Rg: 96.8

Color Vector Graphic



■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	86.5	-4.7%	0.8%
2	91.9	-2.5%	3.1%
3	91.2	-2.0%	1.9%
4	91.2	-1.6%	1.4%
5	85.7	-6.2%	-0.9%
6	92.9	-3.5%	-1.0%
7	92.1	-4.7%	0.7%
8	85.2	-5.8%	4.9%
9	82.8	-6.2%	14.3%
10	77.1	-0.7%	15%
11	72.1	5.8%	14.1%
12	91.6	4.0%	1.0%
13	89.9	5.6%	-2.3%
14	90.5	-1.8%	-3.7%
15	81.6	6.5%	-13.9%
16	92.8	-3.6%	-0.4%

PROJECT		Fixture Type		DATE	
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MIN / MAX - TRIANGOLO IP67

LEMEE
IDEAS BECOMING LIGHT

designplan®

datasheet

MIN / MAX Triangolo are triangular, IP67-rated LED luminaire for flush installation on floors in indoor or outdoor areas. It is available in 2 different triangle shapes - 5 sizes each with antislip glass. Driveover rated up to 11,000 lbs. Pressure switch on request. Can be ordered in IP68 stainless steel version suitable for fountains - see Fountain Lighting section.



TECHNICAL DATA

Wattage / Input	16W, 33W, 45W, 60W, 76W (Triangolo 1-5: 24VDC) 9.6W, 27W, 40W, 54W, 67W (Triangolo 6-10: 24VDC)	
Power Supply	Remote, not included. See page 2.	
Construction	Body: Anticorodal Aluminum Protected by 25 Micron Lens: Extra Clear Tempered Glass Cable Length: 1.64'	
CCT	2700K, 3000K, 4000K (RGBW or Tunable White on request)	
BUG Rating	B0-U0-G0	
Delivered Lumens	1360-5600 lm (3000K)	
Efficacy	83-92 lm/W (3000K)	
Optics	Diffuse	
Finishes	Antislip Glass (Sandblasted available on request)	
Fixture Dimensions (all are 1.6" h)	9.8" x 15.9" x 15.9" (T1) 19.7" x 31.9" x 31.9" (T2) 29.5" x 47.3" x 47.3" (T3) 39.4" x 63.8" x 63.8" (T4) 49.2" x 79.7" x 79.7" (T5)	9.8" x 9.8" x 15.9" (T6) 19.7" x 19.7" x 31.9" (T7) 29.5" x 29.5" x 47.3" (T8) 39.4" x 39.4" x 63.8" (T9) 49.2" x 49.2" x 79.7" (T10)
Color Consistency	3-Step MacAdam	
IP Rating	IP67	
Impact Resistance	IK10	
Driveover Capacity	Up to 11,000 lbs	

Fixture Dimensions - See page 2



ORDERING INFORMATION

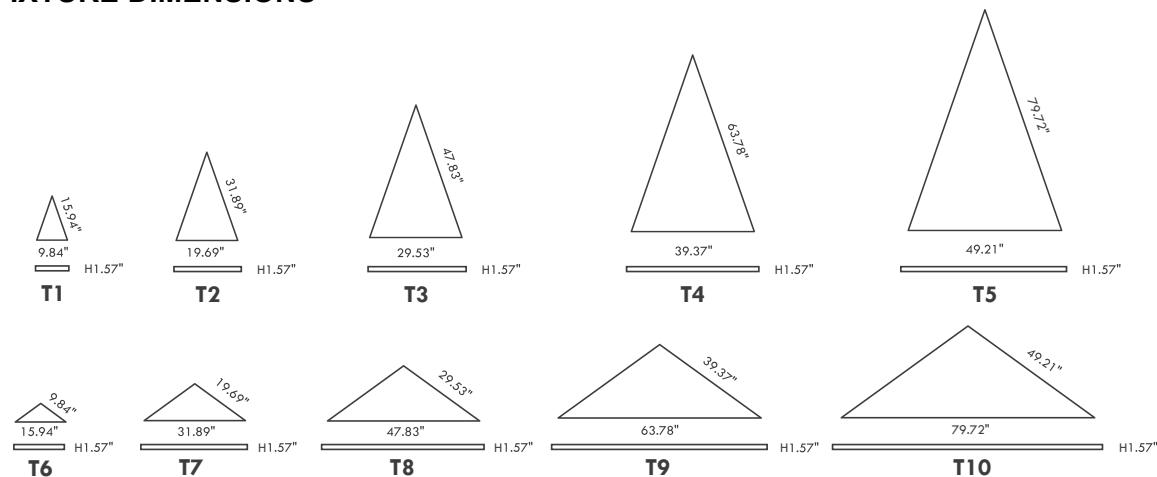
Example: LM07.103826.A1.DI.BP.US. Accessories / Power supplies sold separately.

	A1	DI	
Model No.	Finish	Optic	CCT
LM07.103823.US (T1 - 16W)	A1 - Antislip	DI - Diffuse	BC - 2700K
LM07.103824.US (T2 - 33W)			BP - 3000K
LM07.103825.US (T3 - 45W)			BF - 4000K
LM07.103885.US (T4 - 60W)			
LM07.103886.US (T5 - 76W)			
LM07.103826.US (T6 - 9.6W)			
LM07.103827.US (T7 - 27W)			
LM07.103828.US (T8 - 40W)			
LM07.103887.US (T9 - 54W)			
LM07.103888.US (T10 - 67W)			

Job Name/Date:

Fixture Type Designation:

FIXTURE DIMENSIONS



SUGGESTED POWER SUPPLIES

24VDC

Part Number	Description	Input/Output	# of Fixtures				
			T1	T2	T3	T4	T5
PPLT00481	Non-Dim	120-277VAC to 24VDC, 24W, Class 2	1-1	—	—	—	—
PPLT00156	Non-Dim	120VAC to 24VDC, 45W, Class 2	1-2	1-1	—	—	—
PPLT00157	Non-Dim	120VAC to 24VDC, 60W, Class 2	1-3	1-1	1-1	—	—
PPLT00599	ELV/TRIAC & 0-10V Dimming (100-0%)	120-277VAC to 24VDC, 96W, Class 2	1-4	1-2	1-1	1-1	—
PPLT00158	Non-Dim	120VAC to 24VDC, 100W, Class 2	1-5	1-2	1-1	1-1	1-1
PPLT00543	0-10V Dimming to 15% (-40°C / -40°F cold weather start)	120-277VAC to 24VDC, 100W, Class 2	1-5	1-2	1-1	1-1	1-1

Part Number	Description	Input/Output	# of Fixtures				
			T6	T7	T8	T9	T10
PPLT00194	Non-Dim	120-277VAC to 24VDC, 24W, Class 2, IP66	1-1	—	—	—	—
PPLT00481	Non-Dim	120-277VAC to 24VDC, 24W, Class 2	1-2	—	—	—	—
PPLT00156	Non-Dim	120VAC to 24VDC, 45W, Class 2	1-3	1-1	—	—	—
PPLT00157	Non-Dim	120VAC to 24VDC, 60W, Class 2	1-5	1-1	1-1	—	—
PPLT00599	ELV/TRIAC & 0-10V Dimming (100-0%)	120-277VAC to 24VDC, 96W, Class 2	1-8	1-2	1-1	1-1	1-1
PPLT00158	Non-Dim	120VAC to 24VDC, 100W, Class 2	1-8	1-2	1-2	1-1	1-1
PPLT00543	0-10V Dimming to 15% (-40°C / -40°F cold weather start)	120-277VAC to 24VDC, 100W, Class 2	2-8	1-2	1-2	1-1	1-1

For other power supply options consult factory.

Job Name/Date:

Fixture Type Designation:

ACCESSORIES - Installation



H 3.94"



H 3.94"



LM20.103942 (T1 - 10.2" x 16.3" x 3.9" h)
LM20.103943 (T2 - 20.0" x 32.2" x 3.9" h)
LM20.103944 (T3 - 29.8" x 48.1" x 3.9" h)
LM20.103945 (T4 - 39.7" x 64.1" x 3.9" h)
LM20.103946 (T5 - 49.5" x 80.0" x 3.9" h)
 IP67 Housing

LM20.103947 (T6 - 10.2" x 16.3" x 3.9" h)
LM20.103948 (T7 - 20.0" x 32.2" x 3.9" h)
LM20.103949 (T8 - 29.8" x 48.1" x 3.9" h)
LM20.103950 (T9 - 39.7" x 64.1" x 3.9" h)
LM20.103951 (T10 - 49.5" x 80.0" x 3.9" h)
 IP67 Housing

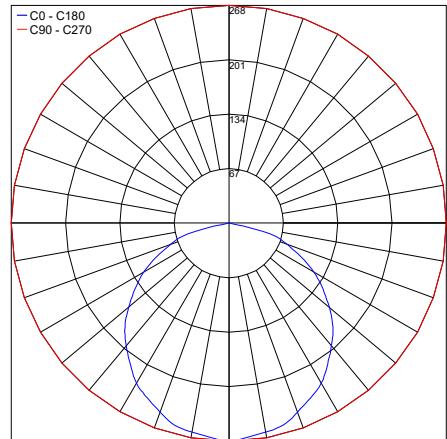
LM20.104765
 Light Source Extraction Tool Kit
 (For T1, T2, T6, T7)

LM20.104812
 Light Source Extraction Tool Kit
 (For T3, T4, T5, T8, T9, T10)

PHOTOMETRIC DATA

T1-T10

Maximum Candela = 268.3



PHOTOMETRIC FILENAME : T1-T10-all the same.ies

Job Name/Date:

Fixture Type Designation:

SABER SUSPENSION, 0.8" ROUND OUTDOOR WET LOCATION

24VDC OUTDOOR 5W | 7W STATIC WHITE, WARM DIM & TUNABLE WHITE

ASSEMBLED IN AMERICA | US PATENT PENDING



DESCRIPTION

Visually stimulating and housed within an unconventional silicone lens, PureEdge's Flexible Saber Line is Tension hung offering flexible installation and conceptual yet functional design. The SCS8 bends Up and Down giving it the unique ability to traverse open spaces wall to wall, wall to ceiling, or floor to ceiling. The 0.75" wide round lens, offers superior color quality and performance while creating uniform illumination without pixelation. Offered in various color temperatures ranging from 2000K to 5700K, including two Warm Dim options of 2700K (**27D**) or 3000K (**30D**) and Tunable White (**2K6K** or **27K6**). Using the latest in LED Technology Tunable White grants independent control for adjusting color temperature and brightness. Use with two dimmers or, our proprietary Tunable White Controller (**CDMX-1**) for fast and accurate adjustment with three pre-set scenes (Ordered separately). Saber is an IP67 rated wet location system featuring watertight barrel connections. System includes a pair of turnbuckles and aircraft cable. Includes a 5-year pro-rated warranty. Patent Pending. For custom designs and quotes, email our design team: design@PureEdgeLighting.com.

SPECIFICATIONS

DIMENSIONS	1.12" Height 0.66" (top) 0.75" (bottom)
INPUT	5" leads
POWER SUPPLIES	Remote 24VDC power supply required
POWER CONSUMPTION	4.4 or 7.3 watts per foot
INCREMENTS	1'
MAX LENGTH	5W - Up to 40' with power feeds at both ends, 20' with one feed 7W - 24' with power feeds at both ends, 12' with one feed
MATERIAL	UV Resistant PVC
OPERATING TEMPERATURE	-40° F (-40° C) to 122° F (+50° C)
AVERAGE LED LIFE	50,000 hrs
WARRANTY	5 Year pro-rated
COMPLIANCE	Class 2 Wiring, Outdoor Wet Location with Water Tight Barrel Connectors IP67 Rated, ETL listed

System	Viewing Angle	Model Shape	Wattage	Length in Feet	Color Temperature	5" Input	Wire Feed	Output Wire	Environment
FN - SCS8 - 5W - 20 - 27K - E CA W									

FN Flex Neon 24V **SCS8** Suspension Saber .8" bends up/down. Includes suspension aircraft cable and turnbuckle. Order power supply and canopy separately. **5W** 4.4 watts per foot **7W** 7.3 watts per foot 5W - Up to 20' with power feed at one end
7W - Up to 12' with power feed at one end Lengths surpassing 26' may have a slight sag up to 1" **20K** 2000K Candle Light White **30D*** 3000K Warm Dim, Dims to 2000K **22K** 2200K Amber White **35K** 3500K Neutral White **24K** 2400K Very Warm White **40K** 4000K Cool White **27K** 2700K Incandescent White **57K** 5700K Daylight White **27D*** 2700K Warm Dim, Dims to 1800K **2K6K** Tunable White 2000K-6500K **30K** 3000K Warm White **27K6** Tunable White 2700K-6500K *5W Only **E** End Power Input Wire **CA** Cap at end, no feed through **W** Outdoor wet location Barrel Connector cable leads

System	Viewing Angle	Model Shape	Wattage	Length in Feet	Color Temperature	5" Input	Wire Feed	Output Wire	Environment
FN - SCS8 - 5W - 20 - 27K - E E W									

FN Flex Neon 24V **SCS8** Suspension Saber .8" bends up/down. Includes suspension aircraft cable and turnbuckle. Order power supply and canopy separately. **5W** 4.4 watts per foot **7W** 7.3 watts per foot 5W - 21-40' with power feed at both ends
7W - 13-24' with power feed at both ends Lengths surpassing 26' may have a slight sag up to 1" **20K** 2000K Candle Light White **30D*** 3000K Warm Dim, Dims to 2000K **22K** 2200K Amber White **35K** 3500K Neutral White **24K** 2400K Very Warm White **40K** 4000K Cool White **27K** 2700K Incandescent White **57K** 5700K Daylight White **27D*** 2700K Warm Dim, Dims to 1800K **2K6K** Tunable White 2000K-6500K **30K** 3000K Warm White **27K6** Tunable White 2700K-6500K *5W Only **E** End Power Input Wire **E** End Wire Lead Out **W** Outdoor wet location Barrel Connector cable leads

PROJECT	FIXTURE TYPE	DATE



SABER SUSPENSION, 0.8" ROUND OUTDOOR WET LOCATION

24VDC OUTDOOR 5W | 7W STATIC WHITE, WARM DIM & TUNABLE WHITE

Lamp Data: Lamp Data for Saber Line SCS8

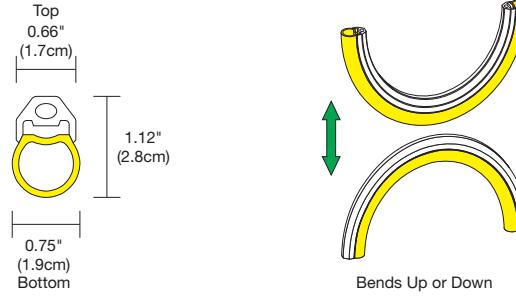
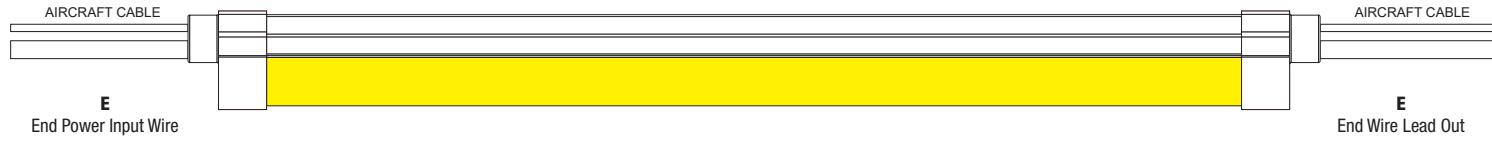
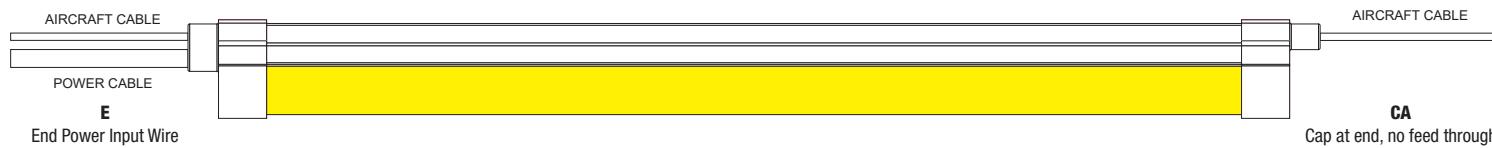
WATTS PER FOOT	FN-SCS8															
	5W (4.4 watts)					7W (7.3 watts)										
COLOR TEMPERATURE	22K	24K	27K	27D*	30K	30D*	35K	40K	57K	22K	24K	27K	30K	35K	40K	57K
LUMENS PER FOOT (lm/ft)	257	283	312	398	342	405	392	426	453	419	462	509	557	639	695	738
LUMENS PER WATT (lm/w)	58	64	71	83	78	84	89	97	103	57	63	70	76	87	95	101
CRI	92+	92+	92+	94+	92+	94+	92+	92+	92+	92+	92+	92+	92+	92+	92+	92+

*27D, 30D - Warm Dim 5 Watts Only

WATTS PER FOOT	2KGK - 5W (4.4 watts)										27K6 - 5W (4.4 watts)										2K6K - 7W (7.3 watts)											
	20K	22K	24K	27K	30K	35K	40K	57K	65K	27K	30K	35K	40K	45K	57K	65K	20K	22K	24K	27K	30K	35K	40K	57K	65K	27K	30K	35K	40K	45K	57K	65K
LUMENS PER FOOT (lm/ft)	280	295	309	323	354	368	382	319	318	296	303	314	325	322	319	318	378	422	466	509	550	586	517	431	429	399	408	424	439	434	431	429
LUMENS PER WATT (lm/w)	70	64	67	70	77	80	95	69	79	74	66	68	71	70	69	79	59	59	65	71	76	81	81	60	67	62	57	59	61	60	60	67
CRI	91+	91+	91+	94+	94+	94+	91+	93+	93+	92+	92+	92+	95+	93+	93+	93+	91+	91+	91+	94+	94+	94+	91+	93+	93+	92+	92+	95+	93+	93+	93+	93+

*Tunable White has a variance in color temperature due to the curvature of the material.

Drawings: Saber Line SCS8



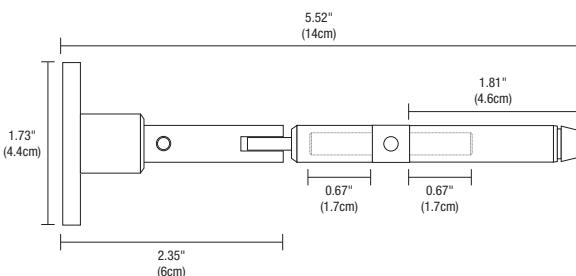
LENGTH CHART Actual lengths for Saber Line SCS8

LENGTH CHART																
Ordering Code (Nominal Size)	Actual Length (Inches)	Ordering Code (Nominal Size)	Actual Length (Inches)	Ordering Code (Nominal Size)	Actual Length (Inches)	Ordering Code (Nominal Size)	Actual Length (Inches)	Ordering Code (Nominal Size)	Actual Length (Inches)							
1	12.75	11	132.75	21	252.75	31	372.75	32	384.75							
2	24.75	12	144.75	22	264.75	33	396.75	34	408.75							
3	36.75	13	156.75	23	276.75	35	420.75	36	432.75							
4	48.75	14	168.75	24	288.75	37	444.75	38	456.75							
5	60.75	15	180.75	25	300.75	39	468.75	40	480.75							
6	72.75	16	192.75	26	312.75											
7	84.75	17	204.75	27	324.75											
8	96.75	18	216.75	28	336.75											
9	108.75	19	228.75	29	348.75											
10	120.75	20	240.75	30	360.75											

PROJECT	FIXTURE TYPE	DATE

FLEX NEON OUTDOOR ACCESSORIES AND J-BOXES

24VDC OUTDOOR 5W | 7W STATIC WHITE, WARM DIM & TUNABLE WHITE



PAIR OF TURNBUCKLES AND AIRCRAFT CABLE (INCLUDED)

The Slim-Profile Turnbuckles hold the tension of the air craft cable running through the silicone Saber tube with LED strip. 6' stainless steel aircraft cable included.

Product	Finish
SABT	SA

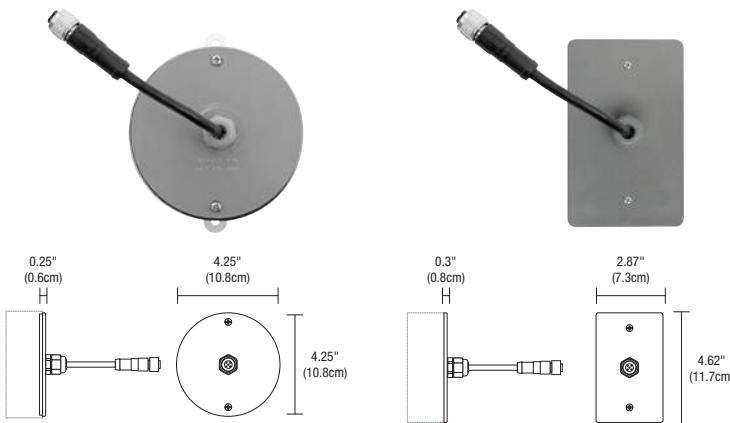
SABT Saber Line Turnbuckle SA Satin Aluminum



AIRCRAFT CABLE (INCLUDED WITH AN EXTRA 6')

Product	Type	Length
ACBL	SAB	50FT

ACBL Aircraft Cable for Saber SAB Saber 10ft to 50ft lengths



CANOPY (ORDER SEPARATELY)

Outdoor canopy with 8ft outdoor barrel connector power feed, may be cut on job site.

System	Type	Canopy	Finish
OC8P	CFX	RD	ZN

OC8P Outdoor Canopy with 8' outdoor Power cable CFX Flexible 4 Wire Cable with Barrel Connector for Static White and Tunable LEDs RD Round Cover, 1 gauge 4.125" ZN Zinc
RE Rectangle Cover, 1 gauge 2.8" x 4.5"

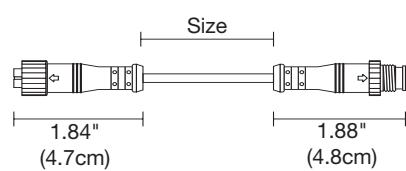


WET AND DAMP LOCATION CABLE ORDER PER FOOT

Our Wet Location, 5 Conductor, 14 Gauge Cable is a durable and adaptable cable suitable for transmitting power, control, and switching in indoor and outdoor wet and damp environments. Cable sold by the foot, simply specify the length needed by the foot. Keep within 50 ft between fixture and power supply. Cable sold by the foot, simply specify the length needed by the foot.

Product	Gauge	Cable
OC	14G	5C

OC Outdoor Cable 14G 14 Gauge 5C 5 Conductor



POWER CABLE CONNECTOR WET LOCATION

The flexible power cable connector is designed to work in outdoor environments for safe and reliable connections. This Flexible Connector is easy to install and configure, helping you create innovative lighting designs in an outdoor commercial or residential space.

Product	Type	Size	Option
SS	CFX	12IN	W

SS Soft Strip and Flex Neon CFX Flexible 4 Wire Connector 12IN 12" W Wet Location
96IN 96"

PROJECT	FIXTURE TYPE	DATE

TM30 DATA

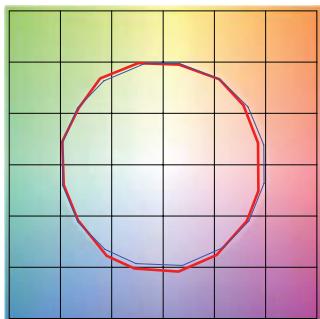
24VDC OUTDOOR 5W | 7W STATIC WHITE, WARM DIM & TUNABLE WHITE

REV 12.10.21

TM-30-15 DATA: The data below is for ST2A, ST5A, ST7A and ST10A bare LED Soft Strips. Consistent color temperatures throughout a single strip and among multiple strips is possible through a 3 phase binning process in which each order is inspected with a color meter to ensure uniformity.

2200K | Rf: 90.5 | Rg: 99.9

Color Vector Graphic

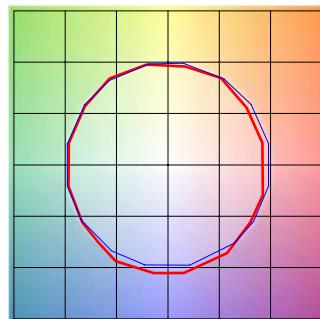


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	88.3	-5.2%	1.0%
2	90.1	-3.6%	3.7%
3	87.5	-0.5%	5.6%
4	93.9	-1.2%	1.3%
5	94.7	0.7%	2.1%
6	93.7	2.6%	0.7%
7	93.5	-1.5%	-2.2%
8	97.8	-0.4%	-0.2%
9	93.7	-1.5%	2.4%
10	90.8	-0.8%	4.9%
11	89.3	3.7%	5.4%
12	90.2	4.6%	1.0%
13	89.0	4.4%	-9.7%
14	75.4	0.6%	-15.1%
15	90.7	-1.7%	-5.0%
16	84.2	-4.4%	-9.1%

2400K | Rf: 90.2 | Rg: 99.3

Color Vector Graphic

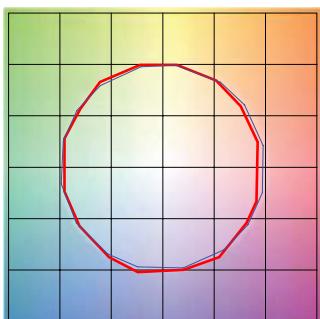


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	89.0	-4.8%	1.1%
2	90.4	-3.7%	3.2%
3	88.1	-0.7%	5.2%
4	93.0	-2.1%	0.9%
5	94.5	-0.1%	2.0%
6	94.7	1.7%	0.6%
7	93.7	-1.9%	-1.5%
8	96.8	-1.2%	0.2%
9	91.9	-1.8%	3.7%
10	88.8	-0.9%	6.1%
11	87.5	3.8%	7.1%
12	89.6	4.3%	0.3%
13	88.1	4.2%	-9.1%
14	82.5	2.8%	-10.6%
15	91.4	-2.1%	-4.2%
16	84.0	-3.6%	-9.9%

2700K | Rf: 89.5 | Rg: 98.3

Color Vector Graphic

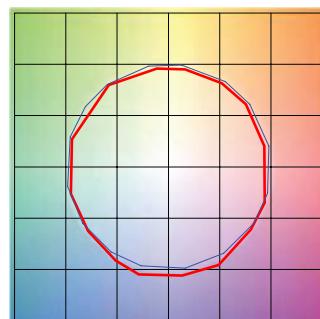


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	88.6	-5.2%	0.9%
2	90.3	-3.6%	2.9%
3	88.4	-1.5%	5.0%
4	91.9	-2.5%	1.4%
5	93.5	-0.9%	2.3%
6	95.7	0.9%	-0.4%
7	91.1	-3.7%	-0.5%
8	95.8	-2.0%	0.4%
9	90.5	-2.6%	4.5%
10	84.9	-1.1%	8.7%
11	85.0	2.3%	9.8%
12	88.1	5.5%	1.5%
13	90.9	2.9%	-5.2%
14	86.2	4.3%	-8.9%
15	90.7	-2.4%	-3.6%
16	83.0	-2.7%	-11.3%

3000K | Rf: 88.7 | Rg: 98.2

Color Vector Graphic

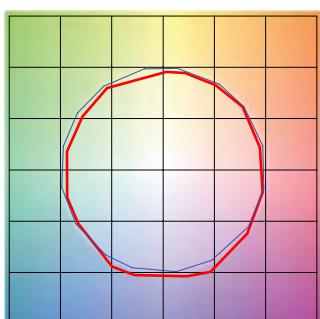


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	88.3	-5.2%	0.8%
2	90.2	-3.7%	2.7%
3	88.3	-1.6%	4.9%
4	92.2	-2.0%	1.8%
5	91.0	-3.5%	1.8%
6	95.8	0.4%	-0.4%
7	90.2	-4.4%	-0.0%
8	94.8	-2.6%	0.8%
9	89.2	-2.9%	6.0%
10	81.4	-1.5%	9.7%
11	82.9	2.3%	10.5%
12	88.3	6.7%	1.9%
13	91.9	2.8%	-4.0%
14	86.3	4.9%	-8.3%
15	87.1	-1.2%	-6.1%
16	83.2	-1.7%	-11.6%

3500K | Rf: 88.1 | Rg: 97.1

Color Vector Graphic

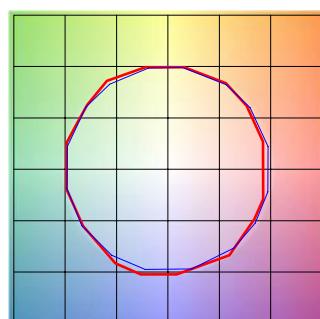


■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	87.8	-5.2%	1.0%
2	90.8	-3.3%	2.3%
3	89.8	-1.6%	3.9%
4	91.0	-2.7%	0.9%
5	90.0	-5.4%	0.7%
6	95.6	-0.9%	-0.4%
7	90.0	-5.3%	1.4%
8	91.8	-3.6%	3.0%
9	87.1	-2.9%	7.3%
10	80.1	-1.3%	12.2%
11	81.8	4.1%	10.5%
12	88.2	5.1%	2.3%
13	92.4	2.1%	-3.8%
14	86.6	5.0%	-7.9%
15	86.2	-0.7%	-6.8%
16	84.5	-2.1%	-7.0%

2700D | Rf: 90.7 | Rg: 101.1

Color Vector Graphic



■ Test ■ Reference

GRAPHIC SHIFTS %			
HUE BIN	Rf	CHROMA	HUE
1	90.9	-4.1%	1.1%
2	91.8	-2.2%	3.2%
3	89.0	0.2%	5.0%
4	92.9	-1.1%	0.8%
5	93.9	1.1%	1.7%
6	93.3	3.3%	0.0%
7	93.1	-0.5%	-1.9%
8	97.2	-0.3%	-0.9%
9	93.4	-1.0%	3.2%
10	89.9	-0.1%	5.6%
11	87.0	4.7%	7.2%
12	89.2	5.8%	-0.2%
13	89.1	3.5%	-6.7%
14	86.3	4.1%	-9.2%
15	91.4	-2.0%	-3.6%
16	84.7	-2.1%	-10.3%

PROJECT

FIXTURE TYPE

DATE

TM30 DATA

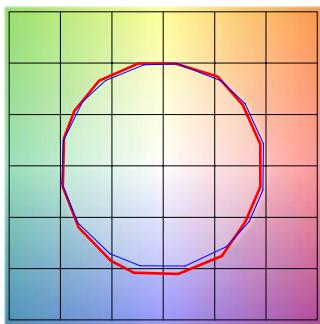
24VDC OUTDOOR 5W | 7W STATIC WHITE, WARM DIM & TUNABLE WHITE

REV 12.10.21

TM-30-15 DATA: The data below is for ST2A, ST5A, ST7A and ST10A bare LED Soft Strips. Consistent color temperatures throughout a single strip and among multiple strips is possible through a 3 phase binning process in which each order is inspected with a color meter to ensure uniformity.

3000D | Rf: 90.6 | Rg: 101.1

Color Vector Graphic

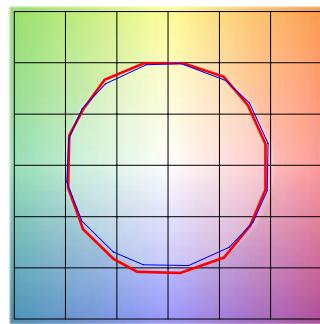


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	91.5	-3.5%	1.3%
2	92.2	-1.8%	3.0%
3	89.3	0.5%	4.8%
4	92.7	-1.1%	0.6%
5	93.3	0.5%	1.4%
6	93.8	2.7%	-0.8%
7	91.2	-2.1%	-0.2%
8	97.0	-0.5%	-0.7%
9	92.5	-0.7%	3.8%
10	88.3	0.9%	7.1%
11	87.5	3.9%	7.6%
12	88.2	6.2%	-0.2%
13	89.9	3.4%	-6.0%
14	86.9	4.4%	-8.5%
15	91.9	-1.9%	-2.9%
16	84.7	-1.3%	-10.6%

3000K (2K6K/27K6) | Rf: 90.5 | Rg: 100.7

Color Vector Graphic

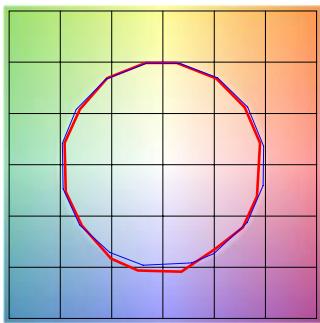


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	91.5	-3.5%	1.2%
2	92.4	-1.8%	2.7%
3	89.8	0.3%	4.5%
4	92.4	-1.7%	0.4%
5	93.3	-0.1%	1.4%
6	94.5	2.1%	-0.6%
7	91.0	-2.5%	0.3%
8	96.9	-0.8%	-0.2%
9	91.6	-0.9%	4.6%
10	86.7	0.7%	7.8%
11	86.3	3.8%	8.5%
12	88.3	6.1%	0.6%
13	90.9	3.1%	-5.2%
14	87.3	4.7%	-7.9%
15	92.1	-1.9%	-2.5%
16	84.5	-0.9%	-10.9%

2000K ONLY (2K6K/27K6) | Rf: 90.6 | Rg: 98.5

Color Vector Graphic

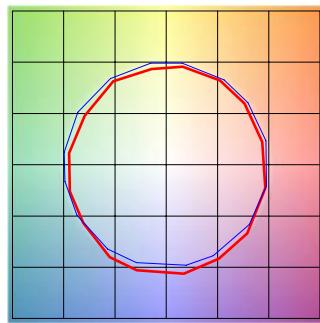


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	87.7	-5.5%	1.2%
2	88.7	-3.9%	4.2%
3	90.5	-1.5%	4.3%
4	95.0	-1.7%	0.8%
5	95.2	-0.2%	2.1%
6	94.2	1.6%	1.9%
7	95.9	-0.8%	-2.2%
8	95.5	-1.7%	1.3%
9	93.8	-1.4	2.6%
10	91.9	-0.7%	4.2%
11	91.3	3.6%	3.7%
12	91.2	4.2%	-1.0%
13	86.6	3.8%	-12.7%
14	67.2	-3.0%	-16.3%
15	84.9	-3.3%	-9.4%
16	84.2	-5.7%	-7.5%

4000K ONLY (2K6K/27K6) | Rf: 86.4 | Rg: 96.1

Color Vector Graphic

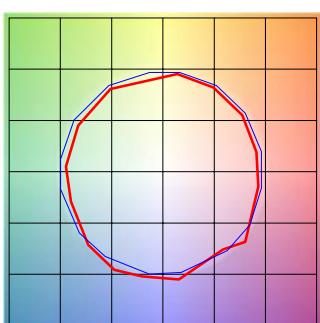


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	86.5	-5.5%	1.3%
2	90.4	-3.0%	2.3%
3	89.8	-2.1%	3.6%
4	89.1	-3.4%	0.4%
5	88.5	-5.9%	0.1%
6	93.6	-3.0%	-0.4%
7	88.9	-6.2%	1.7%
8	87.3	-5.0%	4.9%
9	82.4	-3.6%	11.3%
10	77.4	-1.8%	12.7%
11	79.8	4.9%	11.4%
12	88.7	4.4%	2.7%
13	88.7	4.0%	-5.1%
14	91.2	2.2%	-3.8%
15	82.7	-0.1%	-9.2%
16	82.8	-2.2%	-7.6%

6500K ONLY (2K6K/27K6) | Rf: 86.8 | Rg: 96.8

Color Vector Graphic



■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	86.5	-4.7%	0.8%
2	91.9	-2.5%	3.1%
3	91.2	-2.0%	1.9%
4	91.2	-1.6%	1.4%
5	85.7	-6.2%	-0.9%
6	92.9	-3.5%	-1.0%
7	92.1	-4.7%	0.7%
8	85.2	-5.8%	4.9%
9	82.8	-6.2%	14.3%
10	77.1	-0.7%	15%
11	72.1	5.8%	14.1%
12	91.6	4.0%	1.0%
13	89.9	5.6%	-2.3%
14	90.5	-1.8%	-3.7%
15	81.6	6.5%	-13.9%
16	92.8	-3.6%	-0.4%

PROJECT	FIXTURE TYPE	DATE

8w LED
855 LumensIP65
Suitable for wet locationsIK08
Impact Resistant | Vandal Resistant

Weight - 6.6 lbs

**Construction****Aluminum**

Less than 0.1% copper content - Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength, clean detailed product lines and excellent heat dissipation.

Pre paint

8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket

Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management

LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression

Standard 10kv surge suppressor provided with all fixtures.

BUG Rating

B0 - U0 - G0

Finishing

All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint

UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C. This process ensures that Ligman products can withstand harsh environments. Rated for use in natatoriums.

Inspired by Nature Finishes

The Inspired by nature Finishing is a unique system of decorative powder coating. Our metal decoration process can easily transform the appearance of metal or aluminum product into a wood grain finish.

This patented technology enables the simulation of wood grain, and even marble or granite finish through the use of decorative powder coating.

The wood grain finish is so realistic that it's almost undistinguishable from real wood, even from a close visual inspection. The system of coating permeates the entire thickness of the coat and as a result, the coating cannot be removed by normal rubbing, chipping, or scratching.

The Coating Process

After pre-treatment the prepared parts are powder coated with a specially formulated polyurethane powder. This powder provides protection against wear, abrasion, impact and corrosion and acts as the relief base color for the finalized metal decoration.

The component is then wrapped with a sheet of non-porous film with the selected decoration pattern printed on it using special high temperature inks.

This printed film transfer is vacuum-sealed to the surface for a complete thermo print and then transferred into a customized oven. The oven transforms the ink into different forms within the paint layer before it becomes solid. Finally, the film is removed, and a vivid timber look on aluminum remains.

Wood grain coating can create beautiful wood-looking products of any sort. There are over 300 combinations of designs currently in use. Wood grains can be made with different colors, designs, etc.

Our powder coatings are certified for indoor and outdoor applications and are backed by a comprehensive warranty. These coatings rise to the highest conceivable standard of performance excellence and design innovation.

Added Benefits

- Resistance to salt-acid room, accelerated aging
- Boiling water, lime and condensed water resistant
- Anti-Graffiti, Anti-Slip, Anti-Microbial, Anti-Scratch
- Super durable (UV resistant)
- TGIC free (non-toxic)

Hardware

Provided Hardware is Marine grade 316 Stainless steel.

Anti Seize Screw Holes

Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens

Provided with tempered, impact resistant crystal clear low iron glass ensuring no green glass tinge.

Optics & LED

Precise optic design provides exceptional light control and precise distribution of light. LED CRI > 80

Lumen - Maintenance Life

L80 / B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

A new contemporary bollard design family, meeting Dark Sky requirements, utilizing MicroVos Technology to get maximum spacing and excellent uniformity.

Small, medium and large size LED bollards incorporates optional symmetrical and asymmetrical light distributions, in a variety of different heights. Clean architectural design with no visible hardware, at the top of the luminaire are the further characteristics of this bollard. Ideal for lighting pathways, entrances, square, and terraces.

Color temperature from 2700K, 3000K, 3500K and 4000K, LED CRI >80. Aluminum housing and extruded aluminium column with high corrosion resistance. Stainless steel fasteners in grade 316. Durable silicone rubber gasket and clear toughened glass. Powder coating with high corrosion resistance and chemical chromatized protection.

The Prague has been IDA Dark Sky certified for cct's of 3000K or lower.

micro TECHNOLOGY

Ligman's micro Variable Optical System provides the ability to interchange, mix & rotate optics to provide specific light distributions for optimized spacing and uniformity.



Type II

Type III

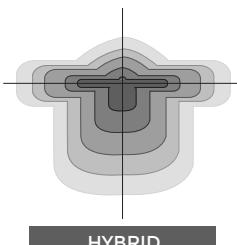


Type IV



Type V

The variable optic system allows for the designer to create hybrid distributions for precise lighting requirements.

**Optics & LED**

Precise optic design provides exceptional light control and precise distribution of light. LED CRI > 80

Lumen - Maintenance Life

L80 / B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)



PROJECT				DATE
QUANTITY		TYPE	NOTE	

ORDERING EXAMPLE || UPRA - 10001 - 8w - T2 - W30 - 02 - 120/277v - Options

UPRA-10001					
	LAMP	BEAM	LED COLOR	FINISH COLOR	VOLTAGE
8w LED 855 Lumens	T1 - Type I Distribution T2 - Type II Distribution T3 - Type III Distribution T4 - Type IV Distribution M - Medium 32° W - Wide 52° VW - Very Wide 65° EW - Extra Wide 108°		W27 - 2700K  W30 - 3000K  W35 - 3500K W40 - 4000K	01 - BLACK RAL 9011 02 - DARK GREY RAL 7043 03 - WHITE RAL 9003 04 - METALLIC SILVER RAL 9006 05 - MATTE SILVER RAL 9006 06 - LIGMAN BRONZE 07 - CUSTOM RAL	120/277v Other - Specify






INSPIRED BY NATURE FINISHES
 SW01 - OAK FINISH
 SW02 - WALNUT FINISH
 SW03 - PINE FINISH
 DF - DOUGLAS FIR FINISH
 CW - CHERRY WOOD FINISH
 NW - NATIONAL WALNUT FINISH
 SU01 - CONCRETE FINISH
 SU02 - SOFTSCAPE FINISH
 SU03 - STONE FINISH
 SU04 - CORTEN FINISH

THERE IS AN ADDITIONAL COST FOR THESE FINISHES

ADDITIONAL OPTIONS

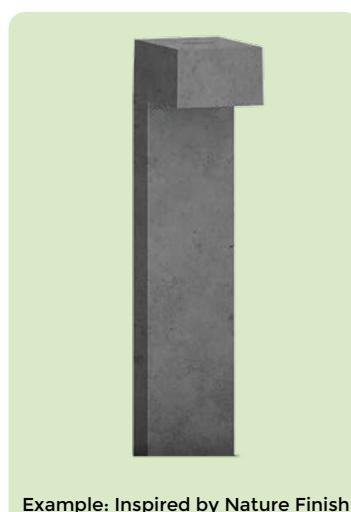
NAT - Natatorium Rated

HGT - Custom Bollard Height

FNF - Front Face Nature Finish

Custom Finishes Available Upon Request

Consult factory for pricing and lead times



Example: Inspired by Nature Finish



Example: Front Face Nature Finish

Prague Product Family



Prague 1

- UPRA-10001-8w-855lm [19.6"]
- UPRA-10002-8w-855lm [39.3"]



Prague 2

- UPRA-10011-14w-1675lm [19.6"]
- UPRA-10012-14w-1675lm [39.3"]



Prague 3

- UPRA-10021-20w-2422lm [19.6"]
- UPRA-10022-20w-2422lm [39.3"]

Twiggy, terra

by Marc Sadler

FOSCARINI



DESCRIPTION

The elastic and coloured graphic appeal of Twiggy is an unmistakable sign in space, an exemplary marriage between the designer's eclectic creativity and Foscarini's research in the field of materials and technologies. Suspended on a detachable rod made of composite material, flexible like a fishing rod, heightadjustable using a system of counterweights, Twiggy is a simple and genius idea, which has become an Foscarini icon and awarded outstanding success among both the public and the critics. The diffuser guarantees direct lighting in the area underneath the lamp and - thanks to the transparency of the upper protection disk - diffuses a cosy ambient light. This lighting emotion is also vouched by Led version – affording high energy efficiency levels and durability - completely re-engineered in terms of lighting technology especially to ensure the same intensity, diffusion and temperature as the light produced by the original version.

MATERIALS

Coated fiberglass-based composite material, PMMA, polycarbonate, coated metal and aluminium (LED)

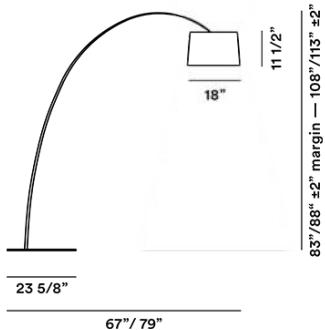
COLORS

Black, Greige, Crimson, White, Graphite

Floor lamp with direct and indirect light. Diffuser and rod made of fibreglass-based composite material and liquid coated. Translucent polycarbonate upper diffuser disc, PMMA lower diffuser disc with polyprismatic internal surface. Epoxy powder coated metal round base. Supplied with 4 counter-weights to be inserted in the purpose-provided seat above the diffuser to adjust its height. For LED version the circuit boards were purpose-designed by Foscarini, to achieve a superior level of color rendering (CRI) and retaining the same colour temperature as a halogen light source (Kelvin). The two LED circuit boards are installed on an aluminium disc that acts as a dissipator, and the upper board is protected by a small PMMA disc. Additional arc-extending rods available upon request; the black cable is fitted with a dimmer which can be used both to adjust the level of luminous intensity gradually or as the ON/OFF switch.

Twiggy

SCHEMATIC & LIGHT EMISSION



MATERIAL

Coated fiberglass-based composite material, PMMA, polycarbonate, coated metal and aluminium (LED)

LIGHT SOURCE

HALO
100WE26

CERTIFICATIONS

COLORS



ACCESSORIES

Twiggy

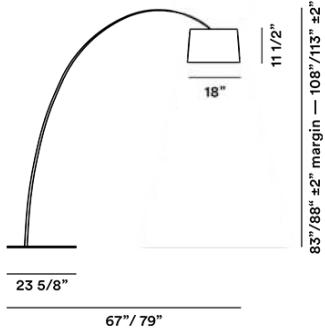
Twiggy, terra

technical details

FOSCARINI

Twiggy LED

SCHEMATIC & LIGHT EMISSION



MATERIAL

Coated fiberglass-based composite material, PMMA, polycarbonate, coated metal and aluminium (LED)

LIGHT SOURCE

LED
34W
2700 K 3840 lm CRI>90

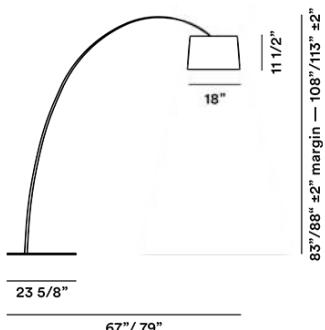
COLORS



CERTIFICATIONS

Twiggy LED MyLight

SCHEMATIC & LIGHT EMISSION



MATERIAL

Coated fiberglass-based composite material, PMMA, polycarbonate, coated metal and aluminium (LED)

LIGHT SOURCE

Doesn't apply to 120V

COLORS



CERTIFICATIONS

ACCESSORIES

Twiggy

Twiggy, terra

Designer

MARC SADLER

Marc Sadler boasts lengthy experience as an industrial designer in the field of sports, which has often led him to experiment with new materials and innovative production processes.

This innovative and experimental approach has become his modus operandi, even when he designs for sectors which are traditionally more focused on the styling component. He has won four Compassi d'Oro ADI, including the one for Mite and Tite in 2001, for projects which have become genuine icons in the Foscarini collection, together with Kite, Twiggy, Tress and Jamaica, each one marked by technological and styling innovation.



Twiggy, terra
family

FOSCARINI



Twiggy Wood



Twiggy Elle



Twiggy Wood



Twiggy Grid XL



Twiggy Grid Lettura



Twiggy Grid



Twiggy Grid



Twice as Twiggy



Twice as Twiggy



Twiggy



Twiggy



Twiggy Lettura