



Ordering Information

ORDERING INFORMATION

ORDERING INFORMATION										
FCB6C-36N02										
SERIES	VOLTAGE		HEIGHT		SOURCE/TEMPERATURE		LED LUMENS	FINISH		ACCESSORIES
FCB6C-36N02	UNV	UNV 120V-277V	39	39.5"	LED	27K	522 Lumens (22W)	BK	Black	LD LED Dimming (0-10V) standard
	347V*	347V* AC (integral)				3K		BZ	Bronze	ELV* ELV Dimming (120 only)
	480V*	480V* AC (integral)				35K		SL	Silver	DMX* DMX Dimming* (integral)
						4K		WH	White	DALI* DALI Dimming* (integral)
								CC	Custom Color	PE Photo Eye
										SP20 20kv Surge Protection
										BBU Battery Backup, Integral

*consult factory for lead time





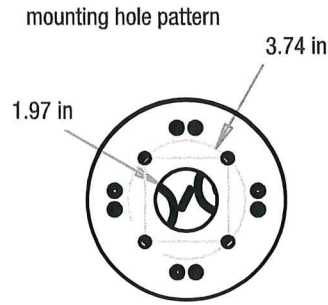
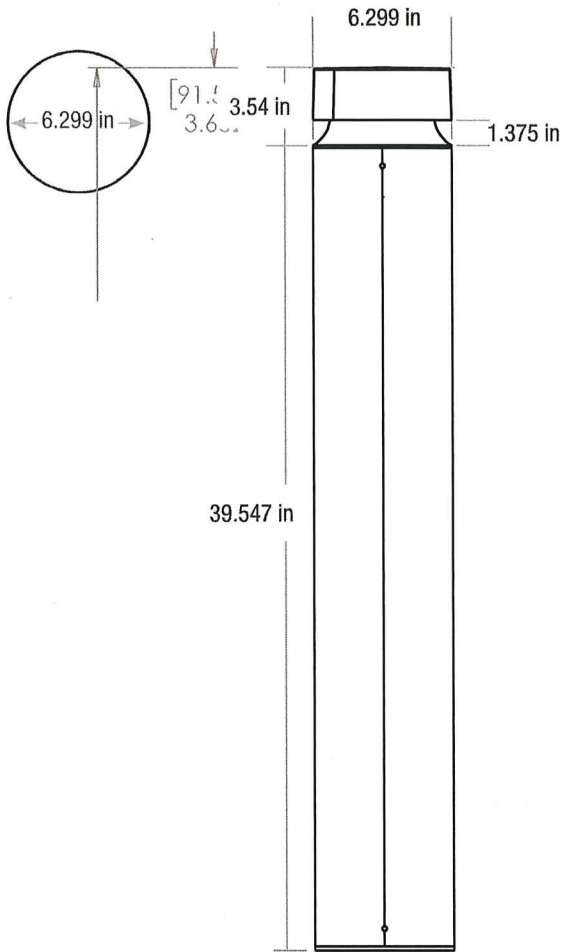
× 0.8 mm
@ 90 DE

PRODUCT DIMENSIONS - STANDARD PRODUCT

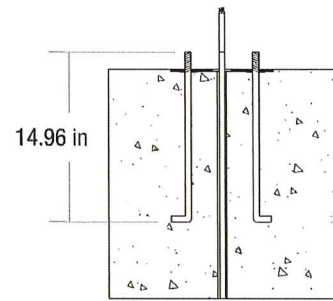
height	39.547" H
diameter	6.299" Ø

MOUNTING - *J-box sold by others*

mounting plate diameter	6.299" Ø
-------------------------	----------



concrete minimum depth 12";
14.96" anchor bolts are above
cement, see installation instructions
for detailed information

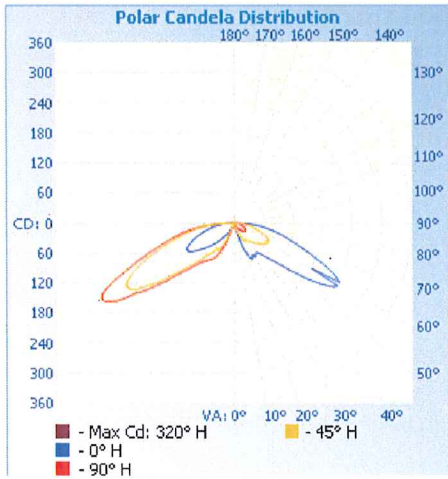


oured and degreased/clean
equately packaged
sions are to be obtained from t



Photometry

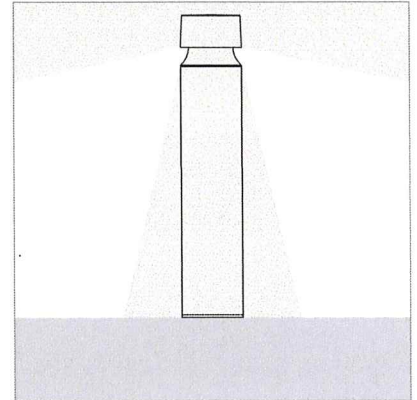
OPTICAL DISTRIBUTION



Illuminance at a Distance

	Center Beam fc	Beam Width	
1.7ft	0.03 fc	0.8 ft	2.2 ft
3.3ft	0.01 fc	1.6 ft	4.3 ft
5.0ft	0.00 fc	2.4 ft	6.5 ft
6.7ft	0.00 fc	3.3 ft	8.7 ft
8.3ft	0.00 fc	4.0 ft	10.7 ft
10.0ft	0.00 fc	4.9 ft	12.9 ft

■ Vert. Spread: 27.3°
■ Horiz. Spread: 65.7°





Excellence in Illumination Engineering Software
since 1984



sample banner copyright 2013 Lighting Analysts, Inc.

Photometric Report (Type C)

Filename: B1_FCB6C-36N02-3K-522 Lumens.IES
[TEST] 3495
[MANUFAC] FC Lighting
[LUMCAT] FCB6C-36N02-3K-522 Lumens

Maximum Candela = 352.69 at 50 H 60 V

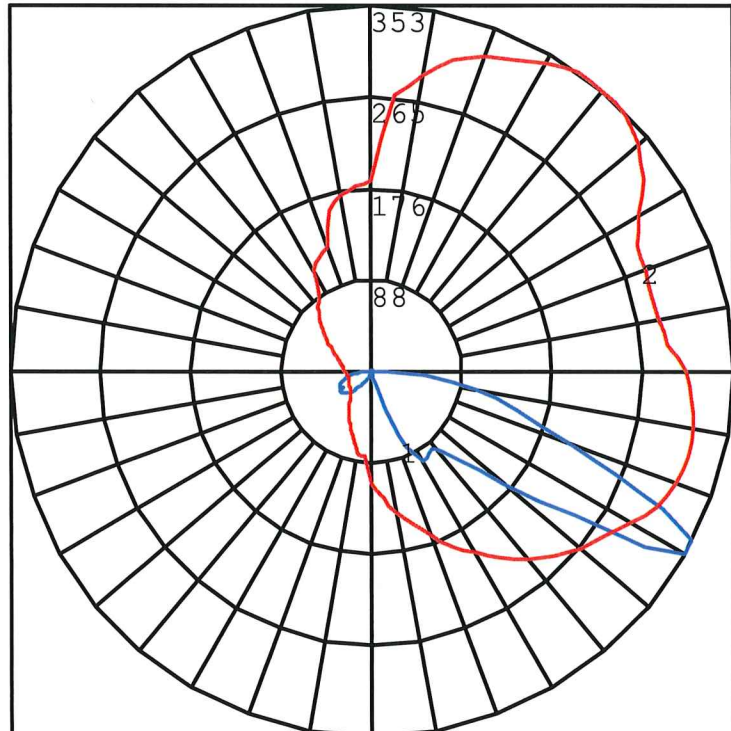
Classification:

Road Classification: Type IV, Short, N.A. (deprecated)
Upward Wast Light Ratio: 0.01
Luminaire Efficacy Rating (LER): 24
Indoor Classification: Direct
BUG Rating : B0-U1-G1

Polar Candela Curves:

Vertical Plane Through:
1) 50 - 230 Horizontal

Horizontal Cone Through:
2) 60 Vertical





Excellence in Illumination Engineering Software since 1984



sample banner copyright 2013 Lighting Analysts, Inc.

Photometric Report (Type C)

Filename: B1_FCB6C-36N02-3K-522 Lumens.IES
[TEST] 3495
[MANUFAC] FC Lighting
[LUMCAT] FCB6C-36N02-3K-522 Lumens

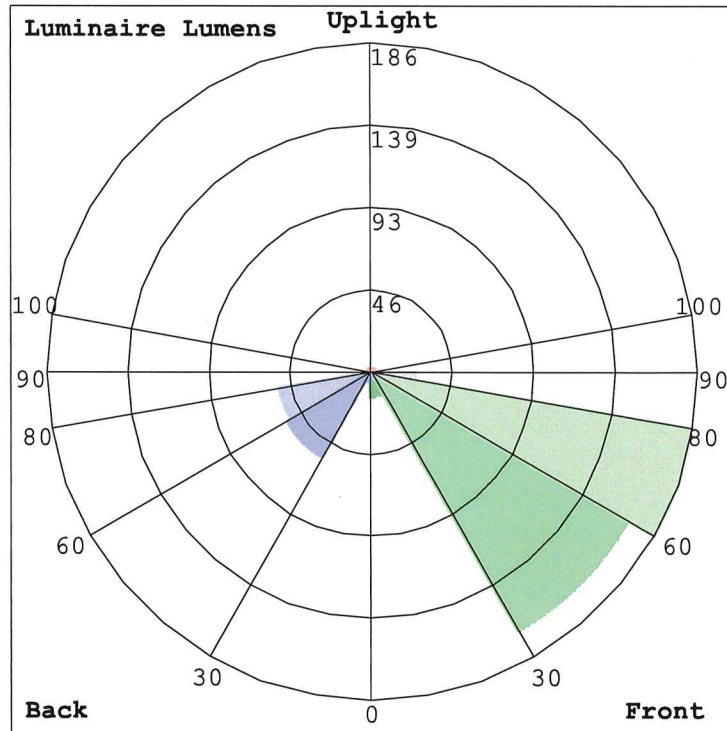
Maximum Candela = 352.69 at 50 H 60 V

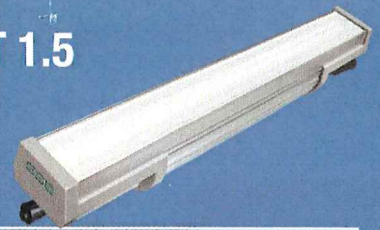
Classification:

Road Classification: Type IV, Short, N.A. (deprecated)
Upward Waste Light Ratio: 0.01
Luminaire Efficacy Rating (LER): 24
Indoor Classification: Direct
BUG Rating : B0-U1-G1

LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	13.9	N.A.	2.7
FM (30-60)	168.7	N.A.	32.4
FH (60-80)	185.9	N.A.	35.7
FVH (80-90)	25.4	N.A.	4.9
BL (0-30)	5.3	N.A.	1.0
BM (30-60)	55.9	N.A.	10.7
BH (60-80)	53.5	N.A.	10.3
BVH (80-90)	8.7	N.A.	1.7
UL (90-100)	1.1	N.A.	0.2
UH (100-180)	1.8	N.A.	0.4
Total	520.2	N.A.	100.0
BUG Rating	B0-U1-G1		





eCVL Wet 1.5

ORDERING INFORMATION

ECVLWET-1.5

model	length	CCT	CRI	optics	options	
ECVLWET1.5	eCOVELINE WET	WHITE LIGHT	MONO COLOR	80CRI 80 CRI	3080 30°x80° beam	WCL Black Louvre
	1 12 in. [305 mm]	27K 2700K	RED Red	<i>CR80 Standard</i>	120 120°x120° beam	WCHS Black Louvre w/House Shield
	4 46.8 in. [1189 mm]	3K 3000K	GRN Green	90CRI 90 CRI		
	6 70 in. [1778 mm]	35K 3500K	BLU Blue			
		4K 4000K	AMB Amber			
		5K 5000K	PINK Pink			
			VIOL Violet			
			LTBLU Light Blue			
			SPGRN Spring Green			
			YELLW Yellow			
			GLDYW Golden Yellow			

Accessories (Indicate the quantity needed for each item.) **REQUIRED:** Starter Cable (SC10W2) and Terminator Cap (TCAPW2) for every run. **Maximum Run Length** = 100 feet (120V)

SC10W 10 ft. Starter Connection Cord	EC12W 12 in. Extension Cord	10VELVDIM 0-10V ELV (<i>Interior Rated Only</i>) Dim Module (1 module per run)
TCAPW Terminator Cap	EC24W 24 in. Extension Cord	MC-10VELDIM 0-10V ELV Dim Module w/Interior Rated Enclosure (1 module per run)
	EC60W 60 in. Extension Cord	

ADBW2 Included With Fixture

Mounting Accessories (*requirements vary for each fixture ordered - see mounting pages for details*)

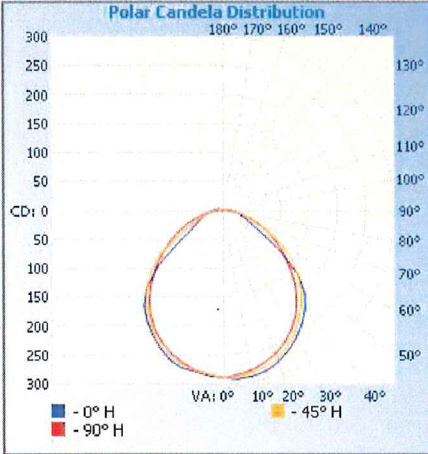
ADBW2 Adjustable Bracket (Bi-directional)	CA2/6 Cantilever Arm - 6"	CWLS6 Heavy Duty Landscape Spike - 6"	LS6 Landscape Spike - 6"
ADBW2-90 90° Adjustable Bracket (Bi-directional)	CA2/12 Cantilever Arm - 12"	CWLS12 Heavy Duty Landscape Spike - 12"	LS12 Landscape Spike - 12"
	CA2/18 Cantilever Arm - 18"	CWLS18 Heavy Duty Landscape Spike - 18"	LS18 Landscape Spike - 18"

Due to continuous development and improvements, specifications are subject to change without notice. FC Lighting and Solid State Luminaires reserve the right to change lab test details or specifications without notice. Product use certifies agreement to FC Lighting and Solid State Luminaires terms and conditions.

Photometry



ECVLWET1.5-1-120-4K-785-120°

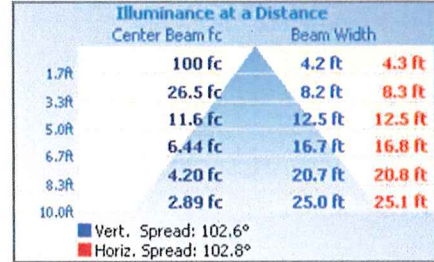


Zonal Lumen Summary

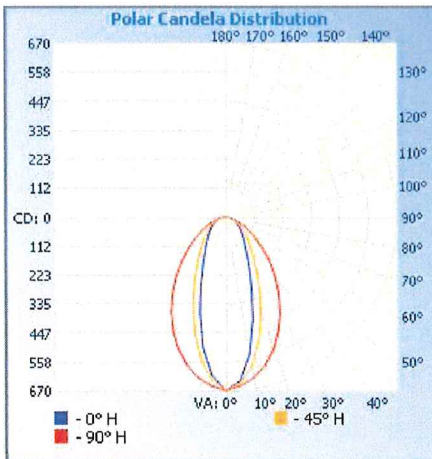
Zone	Lumens	% Luminaire
0-30	224.8	28.6%
0-40	367.4	46.8%
0-60	626.8	79.8%
60-90	135.7	17.3%
70-100	75.3	9.6%
90-120	22.4	2.9%
0-90	762.6	97.1%
90-180	22.4	2.9%
0-180	785.0	100%

Efficiency Total: 99%

Illuminance at a Distance



ECVLWET1.5-1-120-4K-785-30°x 80°

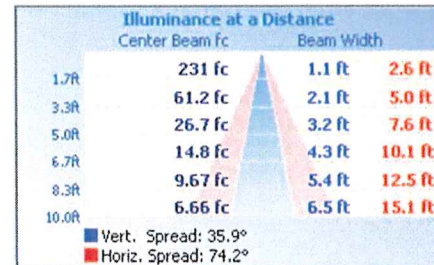


Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	342.3	43.7%
0-40	477.6	61%
0-60	673.2	86%
60-90	104.8	13.4%
70-100	50.7	6.5%
90-120	5.1	.6%
0-90	778.0	99.4%
90-180	5.1	.6%
0-180	783.0	100%

Efficiency Total: 99%

Illuminance at a Distance



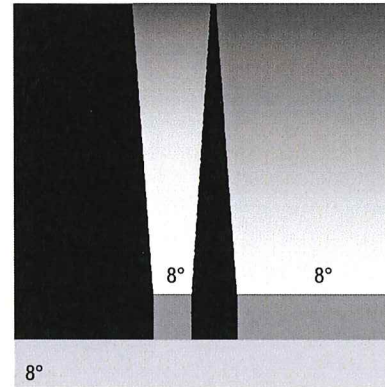
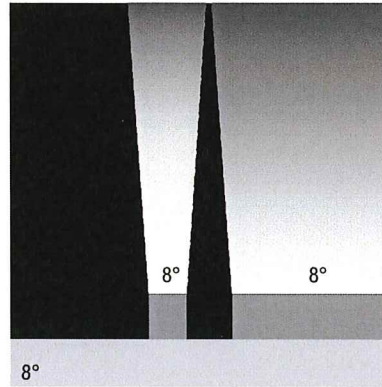
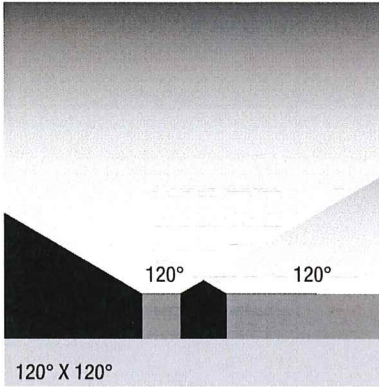
eCOVELINE WET 1.5



Photometry

eCVL WET AVAILABLE OPTICS

FIND IES FILES ON SOLIDSTATELUMINAIRES.COM



PERFORMANCE

DIMMING

Model	Connected Wattage	Delivered Lumens				
		2400K	2700K	3000K	3500K	4000K
ECVLWET1.5-1	3.5	255	273	282	295	300
ECVLWET1.5-4	14	1020	1092	1128	1180	1200
ECVLWET1.5-6	21	1530	1638	1692	1770	1800

TRIAC, REVERSE PHASE DIMMING

Model	Description
DELV	Lutron Diva Dimmer 300P
SELV	Lutron Skylark Dimmer 153P
SCL	Lutron Skylark Dimmer 300P



Dimmers sold by others.

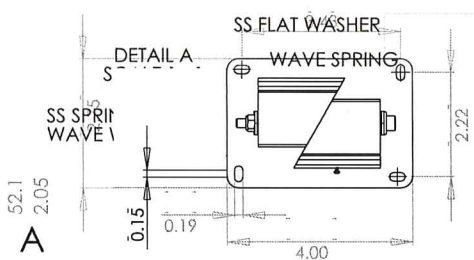
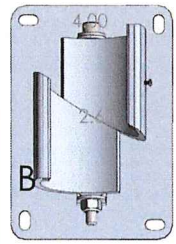


Mounting Options

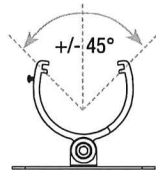
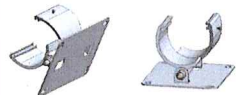
STANDARD ADJUSTABLE BRACKET REQUIREMENTS

ECVLWet-1	1	Minimum Bracket Requirement	ECVLWet-4	2	ECVLWet-6	3
-----------	---	------------------------------------	-----------	---	-----------	---

STANDARD ADJUSTABLE BRACKET (ADBW2)



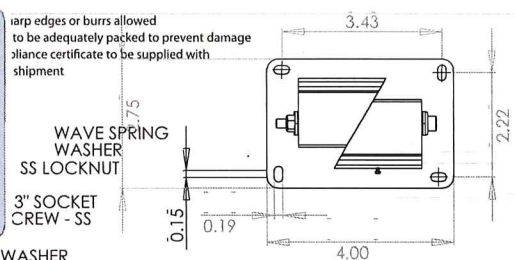
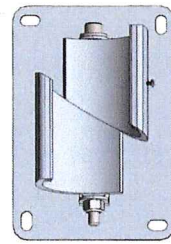
- Universal Orientation**
- Mounts to horizontal or vertical surfaces
 - Easy installation w/fixture in position
 - +/- 45° to surface



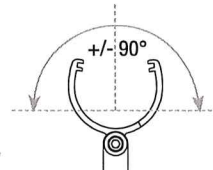
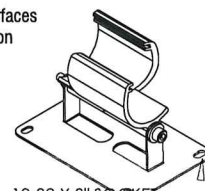
90° ADJUSTABLE BRACKET REQUIREMENTS

ECVLWet-1	1	Minimum Bracket Requirement	ECVLWet-4	2	ECVLWet-6	3
-----------	---	------------------------------------	-----------	---	-----------	---

90° ADJUSTABLE BRACKET (ADBW2-90)

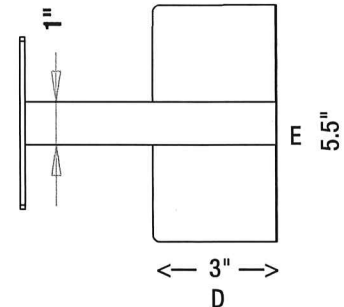
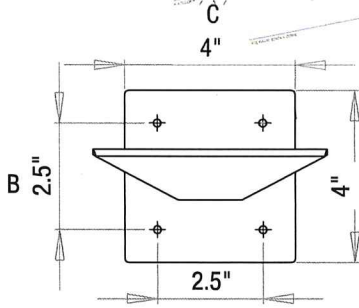
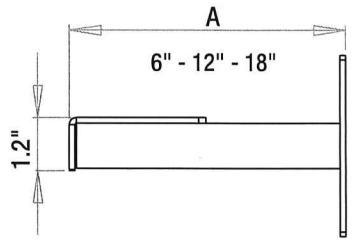
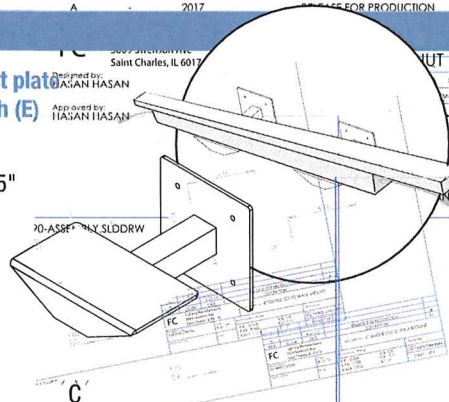


- Universal Orientation**
- Mounts to horizontal or vertical surfaces
 - Easy installation w/fixture in position
 - +/- 90° to surface



CANTILEVER ARM (CA2)

CA2	(A) arm length	mounting height (B)	mounting width (C)	bracket plate length (D)	bracket plate width (E)
CA2/6	6"				
CA2/12	12"	4"	4"	3"	5.5"
CA2/18	18"				

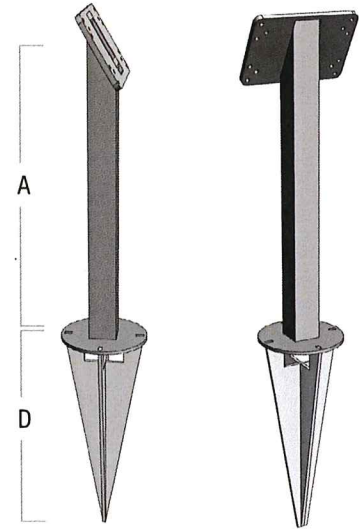
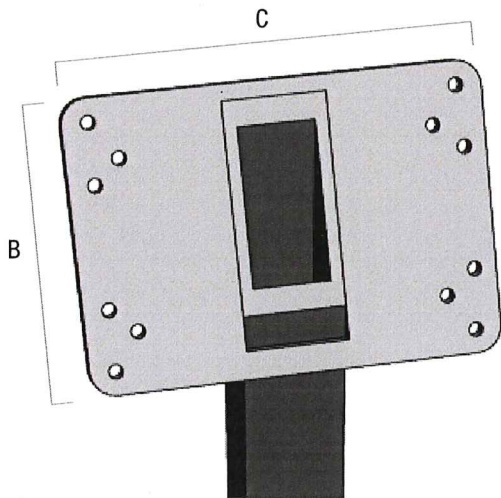




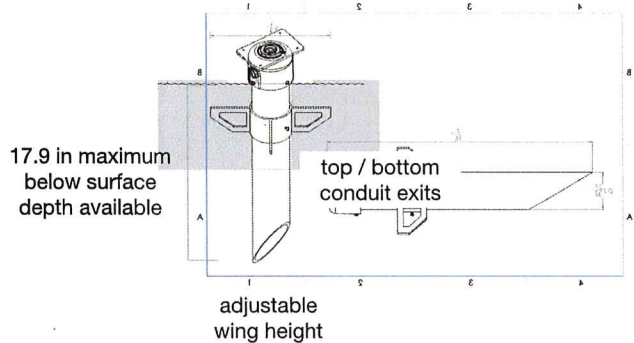
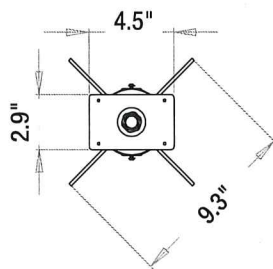
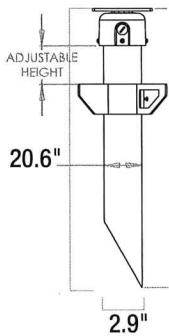
Mounting Option Accessories

LANDSCAPE SPIKE - LS

LS	(A) arm length	bracket plate length (B)	bracket plate width (C)	spike depth (D)
LS/6	6"			
LS/12	12"	3"	5.5"	6"
LS/18	18"			



HEAVE DUTY LANDSCAPE SPIKE - CWLS



Accessories



LOUVRE - WCL

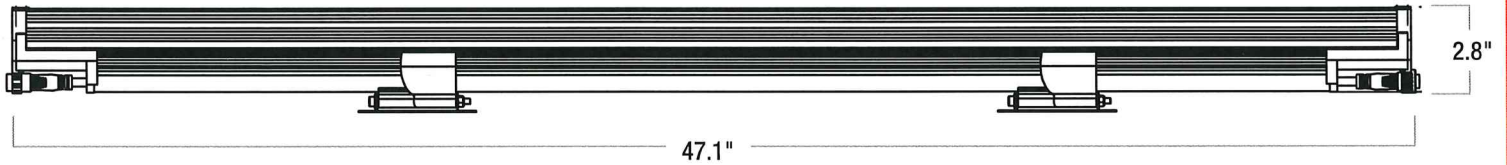
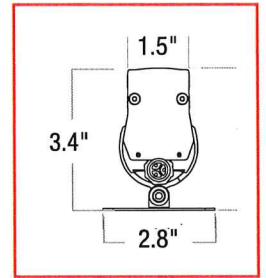
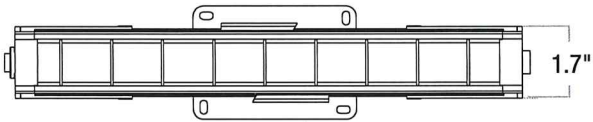
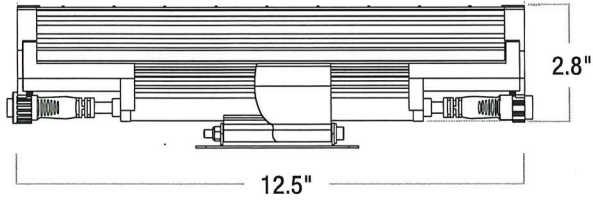
louvre height	.25"
overall height w/bracket	3.4"

1FT

louvre length	12.5"
louvre width	1.5"

4FT

louvre length	47.1"
louvre width	1.5"



HOUSE SHIELD - WCHS

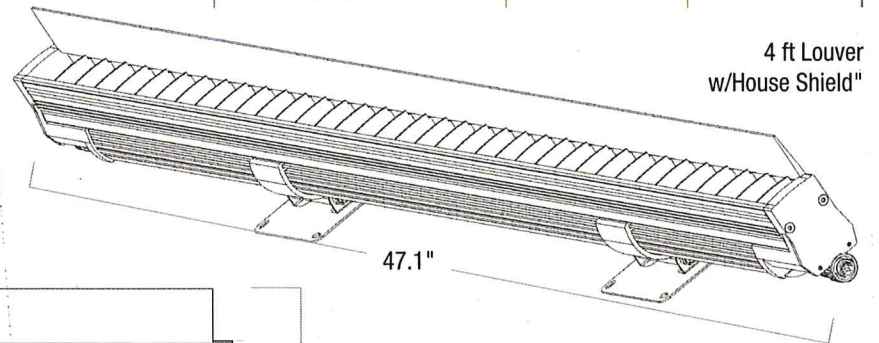
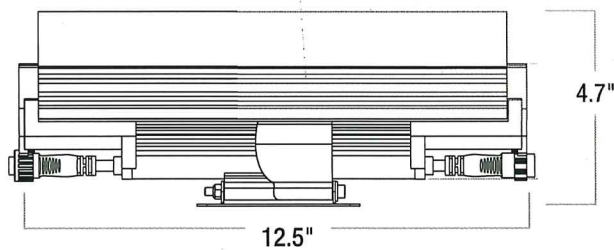
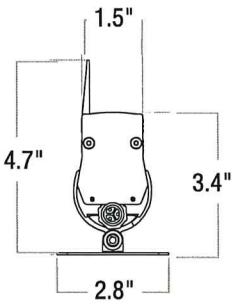
shield height	1.3"
overall height w/bracket	4.7"

1FT

louvre length	12.5"
louvre width	1.5"

4FT

louvre length	47.1"
louvre width	1.5"



4 ft Louver w/House Shield"

Connectivity Options



CONNECTIONS & CABLES

A: MIN/0" - MAX/.38" between fixtures

B: SC10W - 10ft Starter Cord

C: EC12W 12 in. Extension Cord

C: EC24W 24 in. Extension Cord

C: EC60W 60 in. Extension Cord

D: TCAPW 1.13" Terminator Cap

A

H



Daisy Chain Fixtures (1')

A

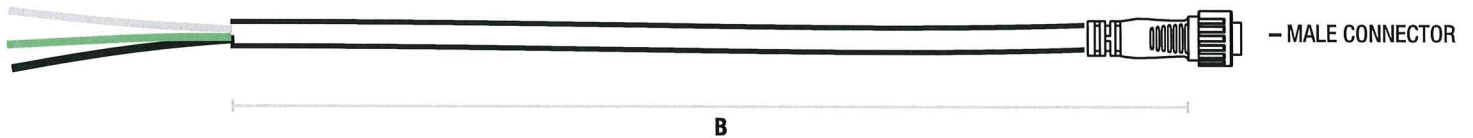
H

Daisy Chain Fixtures (4') & Daisy Chain Fixtures (6')

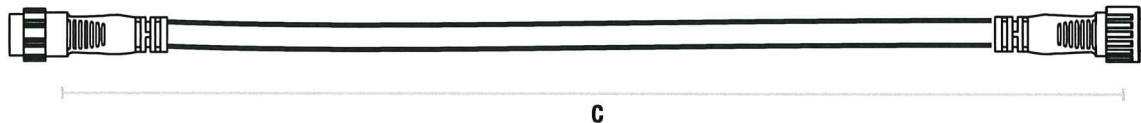


B: STARTER CABLES

INSURE FIRST FIXTURE IS ORIENTED TO ACCEPT MALE CONNECTOR STARTER CABLE



C: EXTENSION CABLES



D: TERMINATOR CAP TCAP

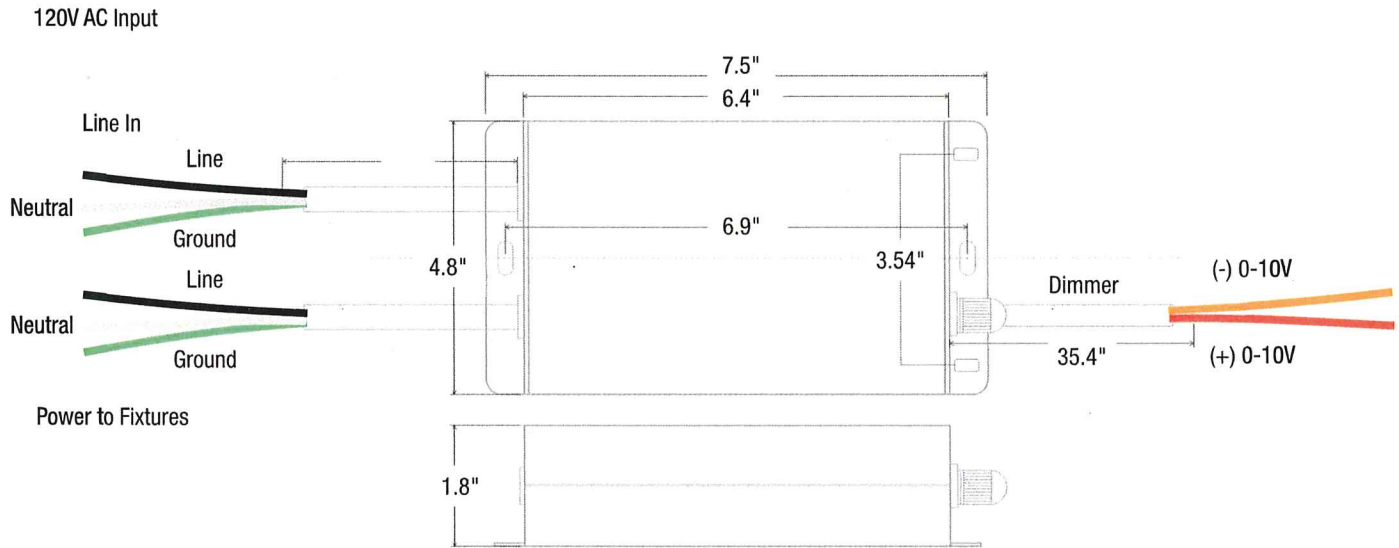
D





Control Components

0-10V ELV DIMMING MODULE (10VELV DIM)



CONTROLS

0-10V DIMMING

Use of exterior rated, IP66, IP67, or IP68 enclosure for Dimming Module is recommended. Recommended controls are interior rated only.

Model	Description
IP710-LFZ	Leviton 0-10V Dimmer
DVSTV	Lutron Diva 0-10V Dimmer

Dimmers are sold by others. FC|SSL does not recommend dimmers that have not been tested with their fixtures.



TRIAC, REVERSE PHASE DIMMING

Model	Description
DELV	Lutron Diva Dimmer 300P
SELV	Lutron Skylark Dimmer 153P
SCL	Lutron Skylark Dimmer 300P

Dimmers are sold by others. FC|SSL does not recommend dimmers that have not been tested with their fixtures.





Excellence in Illumination Engineering Software
since 1984



sample banner copyright 2013 Lighting Analysts, Inc.

Photometric Report (Type C)

Filename: C1_Photometric test Report#2982 ECVLXWET1.5-4-UNV-35K-30x80.IES
[TEST] 2982
[MANUFAC] FC Lighting
[LUMCAT] ECVLXWET1.5-4-UNV-35K-30x80

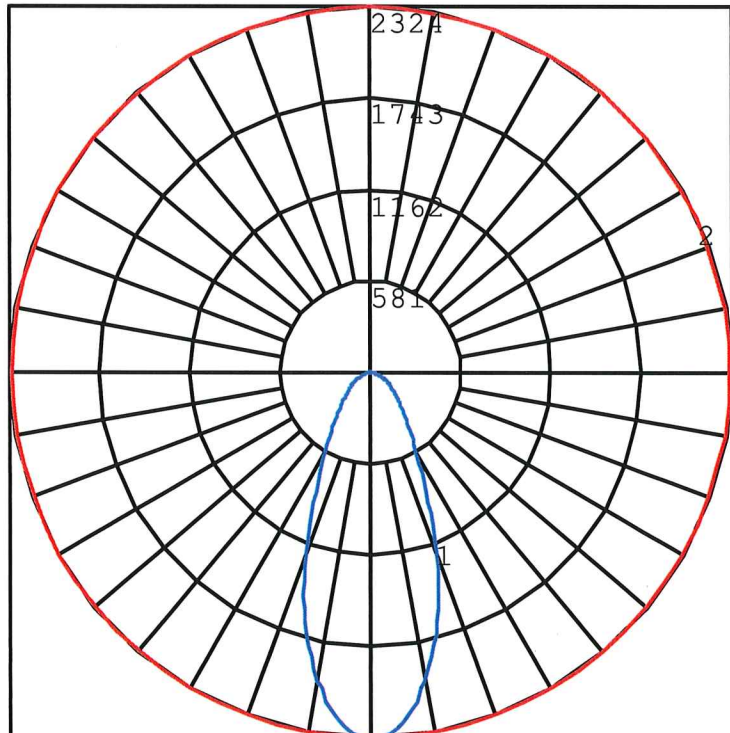
Maximum Candela = 2324.22 at 60 H 1 V

Classification:

Road Classification: Type I, Very Short, N.A. (deprecated)
Upward Wast Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 91
Indoor Classification: Direct
BUG Rating : B1-U1-G0

Polar Candela Curves:

Vertical Plane Through:
1) 60 - 240 Horizontal
Horizontal Cone Through:
2) 1 Vertical





Excellence in Illumination Engineering Software
since 1984



sample banner copyright 2013 Lighting Analysts, Inc.

Photometric Report (Type C)

Filename: C1_Photometric test Report#2982 ECVLXWET1.5-4-UNV-35K-30x80.IES
[TEST] 2982
[MANUFAC] FC Lighting
[LUMCAT] ECVLXWET1.5-4-UNV-35K-30x80

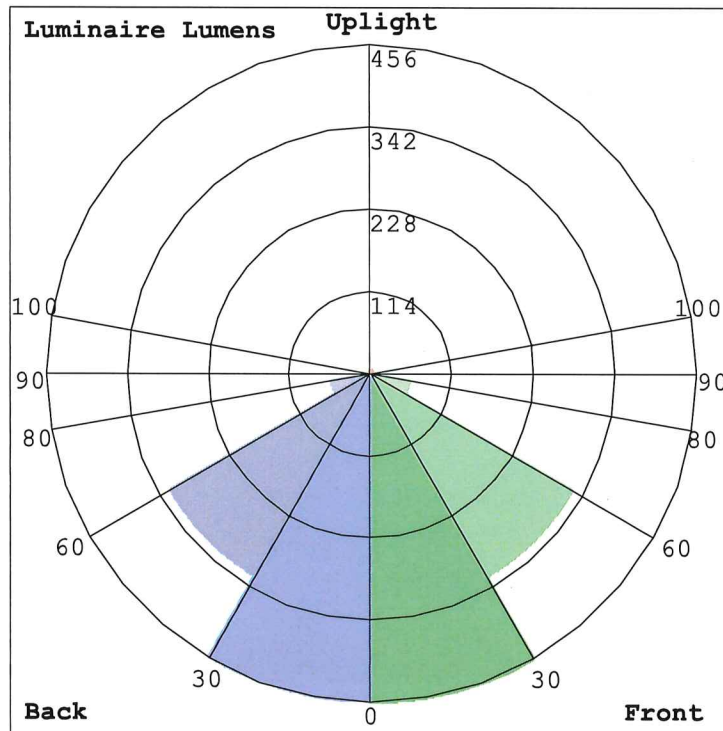
Maximum Candela = 2324.22 at 60 H 1 V

Classification:

Road Classification: Type I, Very Short, N.A. (deprecated)
Upward Waste Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 91
Indoor Classification: Direct
BUG Rating : B1-U1-G0

LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	455.9	N.A.	27.2
FM (30-60)	324.4	N.A.	19.4
FH (60-80)	55.4	N.A.	3.3
FVH (80-90)	1.8	N.A.	0.1
BL (0-30)	454.1	N.A.	27.1
BM (30-60)	324.4	N.A.	19.4
BH (60-80)	55.4	N.A.	3.3
BVH (80-90)	1.8	N.A.	0.1
UL (90-100)	< 0.05	N.A.	0.0
UH (100-180)	3.1	N.A.	0.2
Total	1676.3	N.A.	100.0
BUG Rating	B1-U1-G0		



ENERGY DATA

Series	1000 lumen	
Input Voltage (VAC)	120V	277V
Input Current (A)	0.085	0.042
Input Power (W)	10.1	10.9
In-rush Current (A)	0.644	1.95
In-rush Duration (ms)	0.125	0.24
THDi (%)	8.6	15.6
PF:	≥ 0.90	
(Nominal input 120-277VAC & 100% of rated output power)		
Minimum starting temperature -40°C (-40°F)		
Sound Rating: Class A standards		

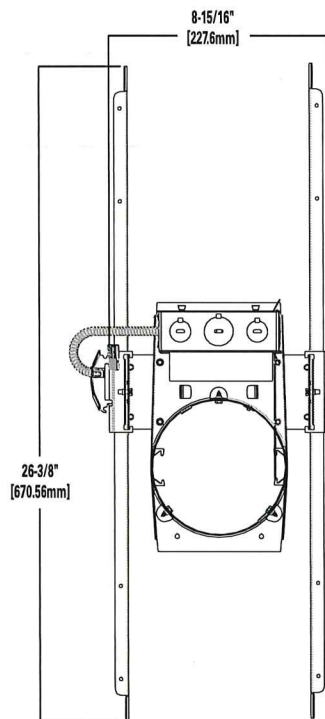
Series	1500 lumen	
Input Voltage (VAC)	120V	277V
Input Current (A)	0.119	0.055
Input Power (W)	14.2	14.9
In-rush Current (A)	0.212	0.85
In-rush Duration (ms)	0.28	0.32
THDi (%)	7.8	16.3
PF:	≥ 0.90	
(Nominal input 120-277VAC & 100% of rated output power)		
Minimum starting temperature -40°C (-40°F)		
Sound Rating: Class A standards		

Series	2000 lumen	
Input Voltage (VAC)	120V	277V
Input Current (A)	0.176	0.082
Input Power (W)	21.1	21.4
In-rush Current (A)	0.588	0.624
In-rush Duration (ms)	0.3	0.38
THDi (%)	8.8	11.2
PF:	≥ 0.90	
(Nominal input 120-277VAC & 100% of rated output power)		
Minimum starting temperature -40°C (-40°F)		
Sound Rating: Class A standards		

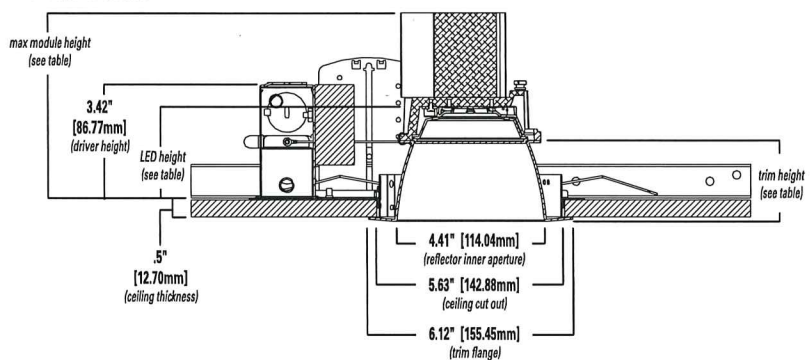
Series	3000 lumen	
Input Voltage (VAC)	120V	277V
Input Current (A)	0.228	0.102
Input Power (W)	27.2	27
In-rush Current (A)	0.898	1.7
In-rush Duration (ms)	0.36	0.38
THDi (%)	9.7	9.3
PF:	≥ 0.90	
(Nominal input 120-277VAC & 100% of rated output power)		
Minimum starting temperature -40°C (-40°F)		
Sound Rating: Class A standards		

Series	4000 lumen	
Input Voltage (VAC)	120V	277V
Input Current (A)	0.345	0.15
Input Power (W)	41.3	40.7
In-rush Current (A)	1.05	2.23
In-rush Duration (ms)	0.32	0.34
THDi (%)	10.06	14.01
PF:	≥ 0.90	
(Nominal input 120-277VAC & 100% of rated output power)		
Minimum starting temperature -40°C (-40°F)		
Sound Rating: Class A standards		

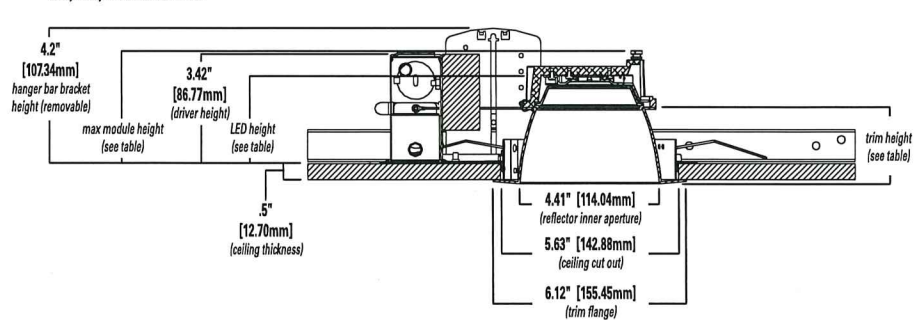
DIMENSIONS



NEW CONSTRUCTION - HIGH LUMEN
3000 AND 4000 LUMEN



NEW CONSTRUCTION - LOW LUMEN
1000, 1500, AND 2000 LUMENS



High Lumen (3000 & 4000 Lumens)

Distribution	Max. Module Height	Trim Height	LED Height
Narrow	5.6"	2.5"	2.9"
Medium	5.7"	2.6"	3.0"
Wide	5.5"	2.4"	2.8"
Baffle	5.5"	2.4"	2.8"

Low Lumen (1000, 1500 & 2000 Lumens)*

Max. Module Height	Trim Height	LED Height
3.6"	2.5"	2.7"
3.7"	2.6"	2.8"
3.5"	2.4"	2.6"
3.1"	2.4"	2.6"

*Max. height w/hanger bar bracket 4.2"

Ordering Information

Sample Number: HC420D010REM7 - HM412835 - 41MDC

A complete luminaire consists of a housing frame, LED module, and reflector (ordered separately)

Mounting Frame	Lumens	Input / Control
HC4 = 4" new construction and remodeler housing HC4CP = 4" new construction and remodeler housing, CCEA Chicago Plenum rated	10 = 1000 lumens (nominal) 15 = 1500 lumens (nominal) 20 = 2000 lumens (nominal) 30 = 3000 lumens (nominal) 40 = 4000 lumens (nominal)	D010 = 120-277VAC 50/60Hz 0-10V analog 1%-100% dimming D010347 = 347VAC 50/60Hz 0-10V analog 1%-100% dimming (Canada only) ¹ DLV = Distributed Low Voltage driver, 1%-100% dimming DLV for use with Eaton's DLVP system only. Refer to DLVP low-voltage power module and DLVP specifications for details. ¹

Options	Accessories
REM7 = 7 watt emergency module with remote test / indicator light, use with D010 only ¹ REM14 = 14 watt emergency module with remote test / indicator light, use with D010 only ¹ REM7V = 7 watt emergency module with remote test / indicator light, use with DLV only ^{1, 2} REM14V = 14 watt emergency module with remote test / indicator light, use with DLV only ^{1, 2} IEM7 = integral 7 watt emergency module with integral test / indicator light, use with D010 only ¹ IEM14 = integral 14 watt emergency module with integral test / indicator light, use with D010 only ¹ IEM7V = integral 7 watt emergency module with integral test / indicator light, use with DLV only ^{1, 2} IEM14V = integral 14 watt emergency module with integral test / indicator light, use with DLV only ^{1, 2} LWTPD1 = factory installed LumaWatt Pro wireless tile mount sensor kit, use with D010 only ¹ SWPD1 = factory installed WaveLinX tile mount daylight sensor, includes control module, sensor, and cable, use with D010 only ¹	HB128APK = L channel hanger bar, 26", pair (replacement) RMB22 = Adjustable wood joist mounting bars, pair, extend to 22" long H347 = 347 to 120V step down transformer, 75VA H347200 = 347 to 120V step down transformer, 200VA PORLWTPD1 = LumaWatt Pro wireless sensor kit, field installed, use with D010 only ¹ TMSWPD1 = WaveLinX wireless sensor kit, field installed, use with D010 only ¹

LED Module	Lumens	CRI/CCT
HM4 = 4" LED module	12 = 1000, 1500 and 2000 lumens (nominal), use with HC410*, HC415*, HC420* housings 34 = 3000 and 4000 lumens (nominal), use with HC430*, HC440* housings	827 = 80 CRI (minimum), 2700K CCT 830 = 80 CRI (minimum), 3000K CCT 835 = 80 CRI (minimum), 3500K CCT 840 = 80 CRI (minimum), 4000K CCT 927 = 90 CRI (minimum), 2700K CCT 930 = 90 CRI (minimum), 3000K CCT 935 = 90 CRI (minimum), 3500K CCT 940 = 90 CRI (minimum), 4000K CCT

Reflector	Distribution ³	Finish	Flange	Accessories
41 = 4" conical reflector	ND = narrow 50° beam angle 0.84 SC (nominal) MD = medium 60° beam angle 1.00 SC (nominal) WD = wide 75° beam angle 1.24 SC (nominal) RWW = rotatable wall wash with linear spread lens	C = Specular clear H = Semi-specular clear W = White (white flange)	Blank = Polished flange standard with C & H reflectors Blank = White flange standard with W reflector WF = White flange option available with C & H reflectors	41RWWPK = rotatable wall wash insert for 4" reflector -replacement part kit

Baffle	Distribution ³	Finish	Flange	Accessories
41 = 4" baffle reflector	WD = wide 75° beam angle 1.24 SC (nominal) RWW = rotatable wall wash with linear spread lens	BB = Black baffle (white flange) WB = White baffle (white flange)	Blank = White flange standard with BB, & WB	41RWWPK = rotatable wall wash insert for 4" reflector -replacement part kit

IEM Reflector	Distribution ³	Finish	Flange	Integral Emergency
41 = 4" conical reflector for integral emergency only	ND = narrow 50° beam angle 0.84 SC (nominal) MD = medium 60° beam angle 1.00 SC (nominal) WD = wide 75° beam angle 1.24 SC (nominal)	C = Specular clear H = Semi-specular clear W = White (white flange)	Blank = Polished flange standard with C & H reflectors Blank = White flange standard with W reflector WF = White flange option available with C & H reflectors	IEM = Reflector for integral emergency only

IEM Baffle	Distribution ³	Finish	Flange	Integral Emergency
41 = 4" baffle reflector for integral emergency only	WD = wide 75° beam angle 1.24 SC (nominal)	BB = Black baffle (white flange) WB = White baffle (white flange)	Blank = White flange standard with BB, & WB	IEM = Reflector for integral emergency only

Reflector	Distribution ³	Finish	Flange
41PS = 4" non-conductive polymer 'dead front' conical reflector ⁴	MD = medium 60° beam angle 1.00 SC (nominal)	W = White (white flange)	Blank = White flange standard with W reflector

Notes:

- Not available with CP version
- ULus for U.S. only
- Values are nominal for white reflector, others may vary.
- 41PS reflector only available in NON-IC environments and up to 3000 lumens.

PHOTOMETRY

NARROW DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

NARROW (50° BEAM*)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE	
Test Number	P255618					Degrees Vertical	Canдела	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance
Housing	HC420D010					0	2112	0-30	1219	73.1	45	15974
Module	HM412835					5	2079	0-40	1553	93.1	55	2141
Reflector	41NDC					15	1784	0-60	1666	99.9	65	0
Lumens	1667 Lm					25	1157	0-90	1667	100	75	0
Efficacy	83.4 Lm/W					35	534	90-180	0	0	85	0
SC	0.84	45	116	0-180	1667	100						
UGR	12.2	55	13									
		65	0									
		75	0									
		85	0									
		90	0									

MEDIUM DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

MEDIUM (60° BEAM*)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE	
Test Number	P255818					Degrees Vertical	Canдела	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance
Housing	HC420D010					0	1761	0-30	1209	67.4	45	22576
Module	HM412835					5	1764	0-40	1615	90.1	55	4707
Reflector	41MDC					15	1686	0-60	1784	99.5	65	1753
Lumens	1793 Lm					25	1257	0-90	1793	100	75	941
Efficacy	89.7 Lm/W					35	655	90-180	0	0	85	0
SC	1.0	45	164									
UGR	13.6	55	28									
		65	8									
		75	2									
		85	0									
		90	0									

WIDE DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

WIDE (75° BEAM*)		CANDLEPOWER DISTRIBUTION		CONE OF LIGHT		CANDELA TABLE		ZONAL LUMEN SUMMARY			LUMINANCE	
Test Number	P256018					Degrees Vertical	Canдела	Zone	Lumens	% Fixture	Average Candela Degrees	Average 0° Luminance
Housing	HC420D010					0	1257	0-30	1054	55.8	45	43057
Module	HM412835					5	1265	0-40	1571	83.2	55	8564
Reflector	41WDC					15	1295	0-60	1871	99.1	65	2906
Lumens	1889 Lm					25	1247	0-90	1889	100	75	1883
Efficacy	94.4 Lm/W					35	841	90-180	0	0	85	0
SC	1.24	45	312									
UGR	15.7	55	50									
		65	13									
		75	5									
		85	0									
		90	0									

*Value are nominal for specular clear reflectors, others may vary.
SC = Spacing Criteria
UGR = Unified Glare Rating

Photometric Multipliers (nominal lumen values)

1000 Lumen	1500 Lumen	2000 Lumen	3000 Lumen	4000 Lumen
0.53	0.72	1.00	1.38	1.87

Multipliers for relative lumen values with other series models.

CCT Multipliers – 80CRI

2700K	3000K	3500K	4000K
0.91	0.94	1.00	1.01

Multipliers for relative lumen values with other series color temperatures.

Color Finish Multipliers

Finish code	C	H	W/WB	BB
Finish	Specular Clear	Semi-Specular	Matte White White Baffle	Black Baffle
Multiplier	1.00	0.95	0.97	0.82

Multipliers for relative lumen values with other color finishes.

CCT Multipliers – 90CRI

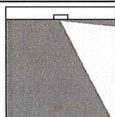
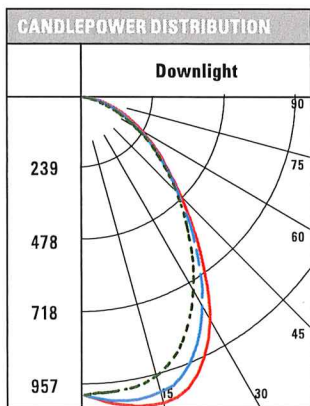
2700K	3000K	3500K	4000K
0.75	0.82	0.89	0.89

Multipliers for relative lumen values with other series color temperatures.

PHOTOMETRY

WALL WASH DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

WALL WASH	
Test Number	P256338
Housing	HC420D010
Module	HM412835
Reflector	41RWWC
Lumens	1816 Lm
Efficacy	90.8 Lm/W
SC	1.20

CANDELA TABLE	
Degrees Vertical	Candela
0	901
5	929
15	957
25	871
35	647
45	420
55	267
65	156
75	70
85	8
90	0

ZONAL LUMEN SUMMARY		
Zone	Lumens	% Fixture
0-30	700	38.5
0-40	1078	59.3
0-60	1630	89.8
0-90	1816	100
90-180	0	0
0-180	1816	100

LUMINANCE	
Average Candela Degrees	Average 0° Luminance
45	57956
55	45350
65	35998
75	26547
85	8498

SC = Spacing Criteria, nominal for specular clear reflector, others may vary.

SINGLE UNIT FOOTCANDLES							
2.5' from wall (distance from fixture along wall)							
1	9.4	6.9	3.2	1.1	0.3	0.1	0
2	12.4	9.5	5.2	2.4	0.9	0.3	0.1
3	13.7	11.1	5.9	2.5	1.1	0.4	0.2
4	10.7	9.4	6.1	3	1.2	0.5	0.2
5	7.7	7	5.4	3.1	1.5	0.6	0.2
6	5.5	5.2	4.3	3	1.6	0.8	0.3
7	4	3.9	3.4	2.6	1.6	0.9	0.4
8	3	2.9	2.6	2.1	1.5	0.9	0.5
9	2.3	2.2	2.1	1.8	1.4	1	0.6
10	1.8	1.8	1.6	1.4	1.2	0.9	0.6

MULTIPLE UNIT FOOTCANDLES									
2.5' from wall (distance from fixture along wall)						2.5' from wall (distance from fixture along wall)			
3						4			
1	10.5	9.8	10.5	10.5	9.8	10.5	10.5	9.8	10.5
2	14.8	14.5	14.8	14.8	14.5	14.8	14.8	14.5	14.8
3	16.2	17	16.2	16.2	17	16.2	16.2	17	16.2
4	13.7	15.8	13.7	13.7	15.8	13.7	13.7	15.8	13.7
5	10.8	12.6	10.8	10.8	12.6	10.8	10.8	12.6	10.8
6	8.5	9.6	8.5	8.5	9.6	8.5	8.5	9.6	8.5
7	6.6	7.3	6.6	6.6	7.3	6.6	6.6	7.3	6.6
8	5.2	5.6	5.2	5.2	5.6	5.2	5.2	5.6	5.2
9	4.1	4.4	4.1	4.1	4.4	4.1	4.1	4.4	4.1
10	3.2	3.4	3.2	3.2	3.4	3.2	3.2	3.4	3.2

Photometric Multipliers (nominal lumen values)

1000 Lumen	1500 Lumen	2000 Lumen	3000 Lumen	4000 Lumen
0.53	0.72	1.00	1.38	1.87

Multipliers for relative lumen values with other series models.

CCT Multipliers - 80CRI

2700K	3000K	3500K	4000K
0.91	0.94	1.00	1.01

Multipliers for relative lumen values with other series color temperatures.

Color Finish Multipliers

Finish code	C	H	W/WB	BB
Finish	Specular Clear	Semi-Specular	Matte White White Baffle	Black Baffle
Multiplier	1.00	0.95	0.97	0.82

Multipliers for relative lumen values with other color finishes.

CCT Multipliers - 90CRI

2700K	3000K	3500K	4000K
0.75	0.82	0.89	0.89

Multipliers for relative lumen values with other series color temperatures.



Excellence in Illumination Engineering Software
since 1984



sample banner copyright 2013 Lighting Analysts, Inc.

Photometric Report (Type C)

Filename: D1_HC410D010-HM412830-41MDH.ies
[TEST] P255881 TEST IS SCALED FROM IESNA LM-79-08 TEST
DATA (G1-1805-779-8)
[TESTLAB] INNOVATIONS CENTER(G1)
[ISSUEDATE] 7/17/2018
[MANUFAC] COOPER LIGHTING - HALO
[LUMCAT] HC410D010-HM412830-41MDH
[LUMINAIRE] HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION
FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM
[LAMP] (1) HIGH LUMEN LED 80CRI / 3000K CCT

Maximum Candela = 754.4 at 0 H 0 V

Classification:

Road Classification: Type V, Very Short, N.A. (deprecated)
Upward Wast Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 85
Indoor Classification: Direct
BUG Rating : B1-U0-G0

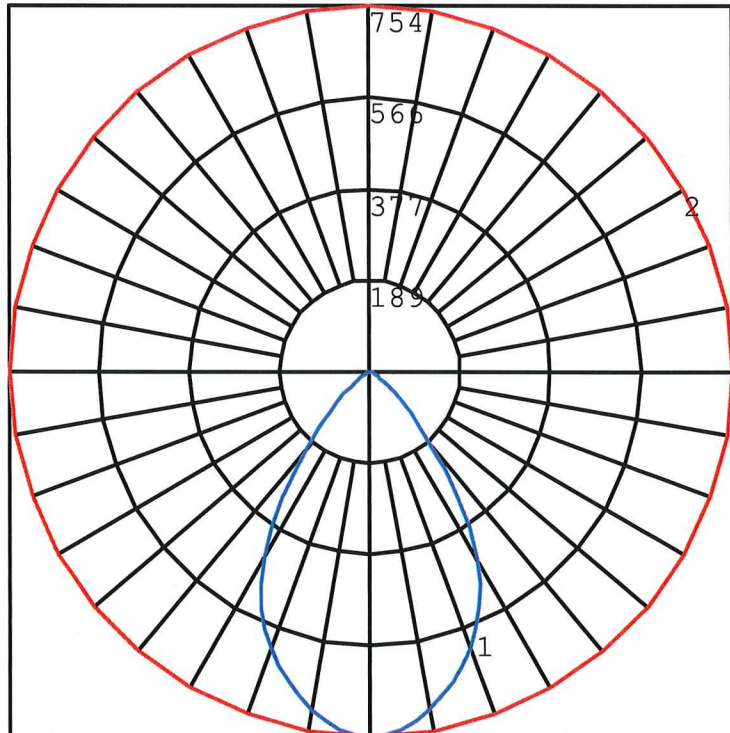
Polar Candela Curves:

Vertical Plane Through:

1) 0 - 180 Horizontal

Horizontal Cone Through:

2) 0 Vertical





Excellence in Illumination Engineering Software since 1984



sample banner copyright 2013 Lighting Analysts, Inc.

Photometric Report (Type C)

Filename: D1_HC410D010-HM412830-41MDH.ies
 [TEST] P255881 TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1805-779-8)
 [TESTLAB] INNOVATIONS CENTER(G1)
 [ISSUEDATE] 7/17/2018
 [MANUFAC] COOPER LIGHTING - HALO
 [LUMCAT] HC410D010-HM412830-41MDH
 [LUMINAIRE] HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM
 [LAMP] (1) HIGH LUMEN LED 80CRI / 3000K CCT

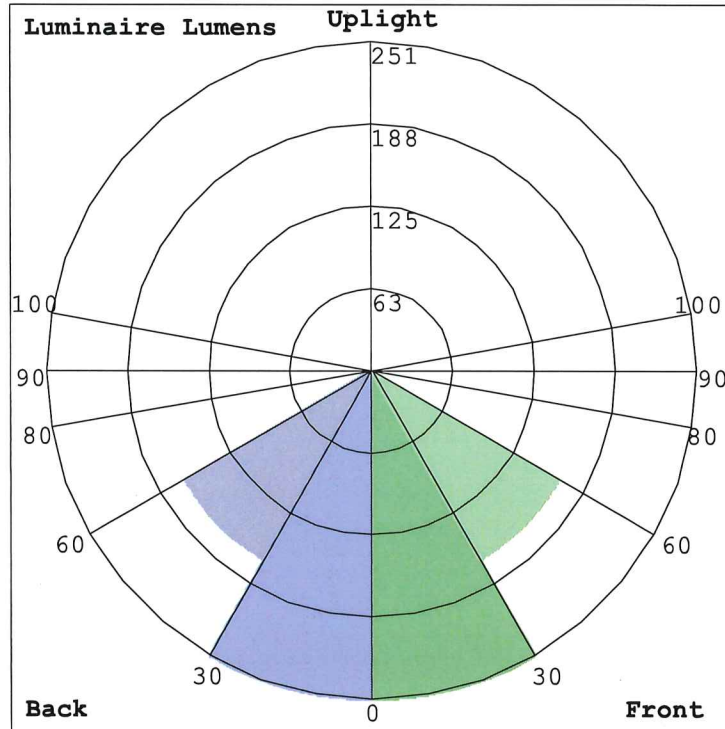
Maximum Candela = 754.4 at 0 H 0 V

Classification:

Road Classification: Type V, Very Short, N.A. (deprecated)
 Upward Waste Light Ratio: 0.00
 Luminaire Efficacy Rating (LER): 85
 Indoor Classification: Direct
 BUG Rating : B1-U0-G0

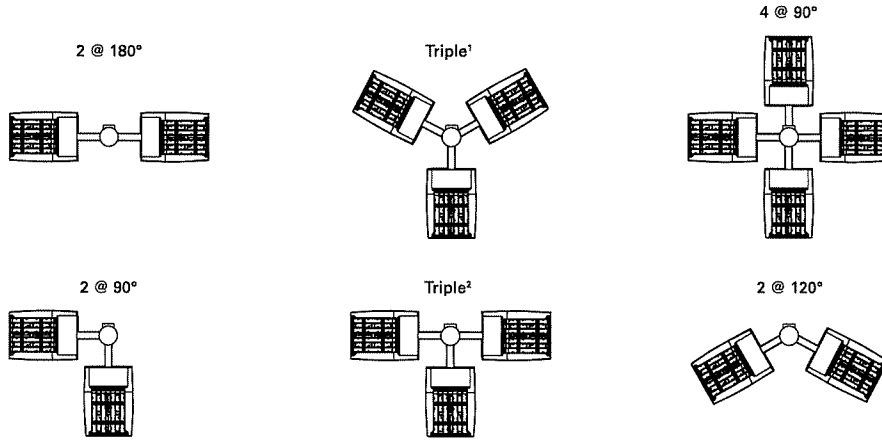
LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	250.7	N.A.	29.5
FM (30-60)	166.1	N.A.	19.5
FH (60-80)	8.0	N.A.	0.9
FVH (80-90)	0.3	N.A.	0.0
BL (0-30)	250.7	N.A.	29.5
BM (30-60)	166.1	N.A.	19.5
BH (60-80)	8.0	N.A.	0.9
BVH (80-90)	0.3	N.A.	0.0
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	850.2	N.A.	100.0
BUG Rating	B1-U0-G0		



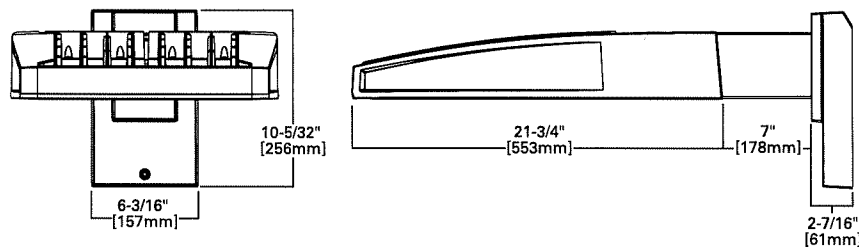
ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GLEON-AF-01	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-02	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-03	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-04	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-05	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AF-06	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AF-07	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AF-08	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AF-09	16" Extended Arm (Required)	16" Extended Arm (Required)
GLEON-AF-10	16" Extended Arm (Required)	16" Extended Arm (Required)

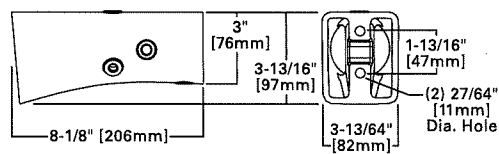


NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. 2 Round poles are 3 @ 90°.

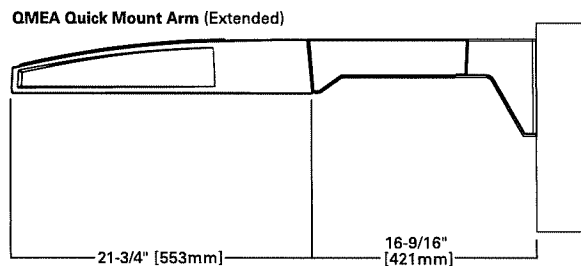
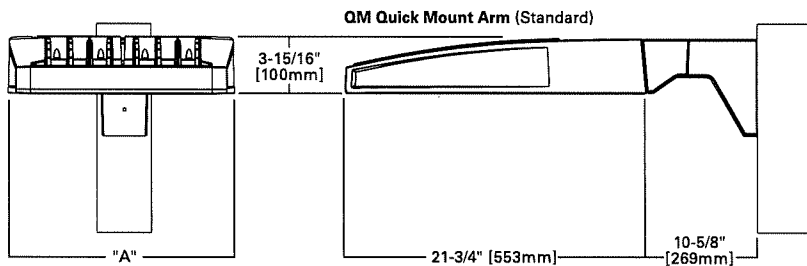
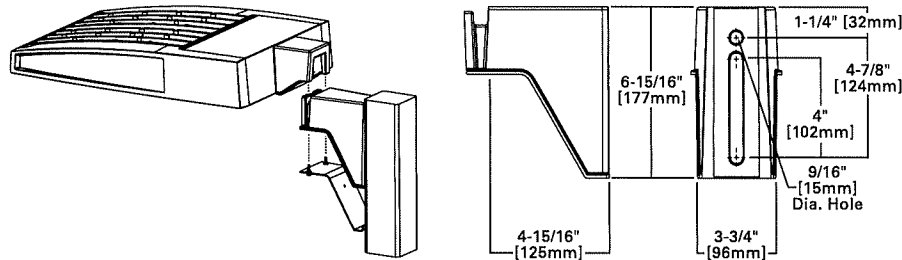
STANDARD WALL MOUNT



MAST ARM MOUNT



QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)

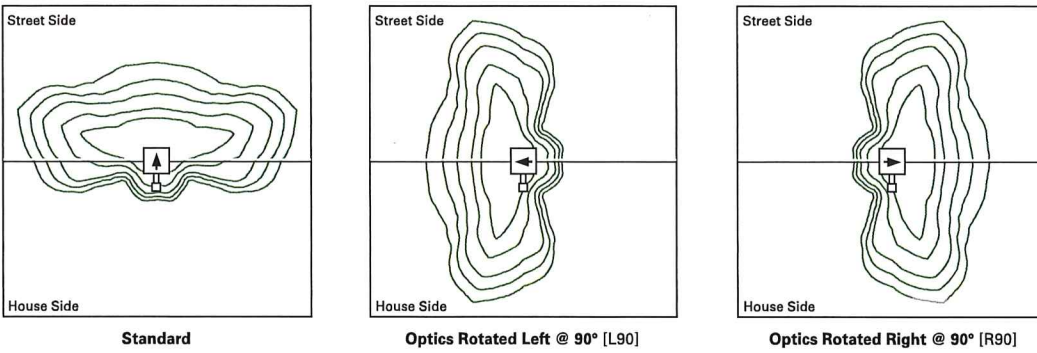


QUICK MOUNT ARM DATA

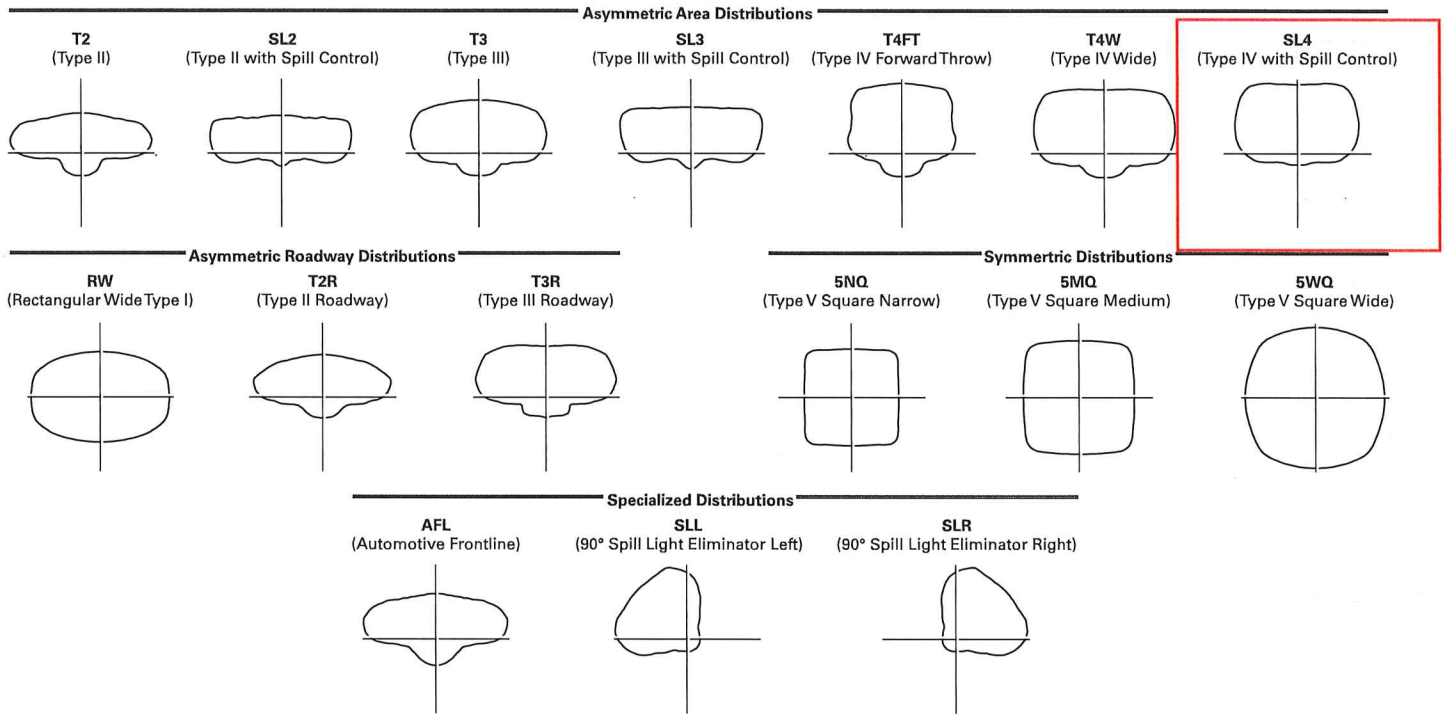
Number of Light Squares 1,2	"A" Width	Weight with QM Arm (lbs.)	Weight with QMEA Arm (lbs.)	EPA (Sq. Ft.)
1-4	15-1/2" (394mm)	35 (15.91 kgs.)	38 (17.27 kgs.)	1.11
5-6 ³	21-5/8" (549mm)	46 (20.91 kgs.)	49 (22.27 kgs.)	
7-8	27-5/8" (702mm)	56 (25.45 kgs.)	N/A	

NOTES: 1 QM option available with 1-8 light square configurations. 2 QMEA option available with 1-6 light square configurations. 3 QMEA arm to be used when mounting two fixtures at 90° on a single pole.

OPTIC ORIENTATION



OPTICAL DISTRIBUTIONS

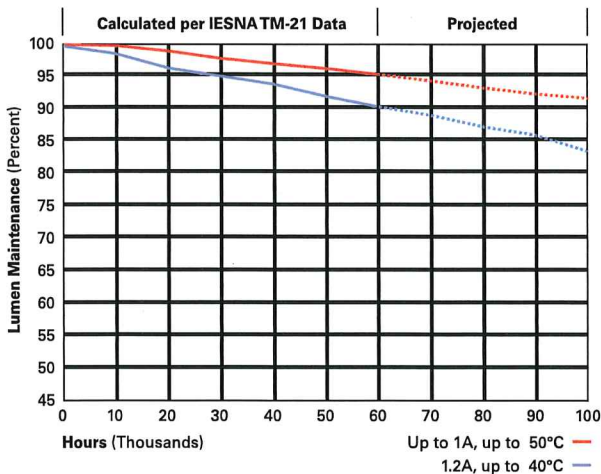


LUMEN MAINTENANCE

Drive Current	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Projected L70 (Hours)
Up to 1A	Up to 50°C	> 95%	416,000
1.2A	Up to 40°C	> 90%	205,000

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97



NOMINAL POWER LUMENS (1A)

Number of Light Squares	1	2	3	4	5	6	7	8	9	10	
Nominal Power (Watts)	59	113	166	225	279	333	391	445	501	558	
Input Current @ 120V (A)	0.51	1.02	1.53	2.03	2.55	3.06	3.56	4.08	4.60	5.07	
Input Current @ 208V (A)	0.29	0.56	0.82	1.11	1.37	1.64	1.93	2.19	2.46	2.75	
Input Current @ 240V (A)	0.26	0.48	0.71	0.96	1.19	1.41	1.67	1.89	2.12	2.39	
Input Current @ 277V (A)	0.23	0.42	0.61	0.83	1.03	1.23	1.45	1.65	1.84	2.09	
Input Current @ 347V (A)	0.17	0.32	0.50	0.64	0.82	1.00	1.14	1.32	1.50	1.68	
Input Current @ 480V (A)	0.14	0.24	0.37	0.48	0.61	0.75	0.91	0.99	1.12	1.28	
Optics											
T2	4000K/5000K Lumens	6,256	12,225	18,242	24,104	29,865	35,739	42,265	47,888	53,420	59,144
	3000K Lumens	5,915	11,559	17,248	22,789	28,236	33,790	39,960	45,277	50,506	55,919
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
T2R	4000K/5000K Lumens	6,642	12,979	19,366	25,589	31,705	37,941	44,870	50,840	56,711	62,789
	3000K Lumens	6,280	12,271	18,311	24,193	29,976	35,872	42,423	48,068	53,619	59,365
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3	4000K/5000K Lumens	6,377	12,461	18,593	24,568	30,439	36,426	43,077	48,810	54,447	60,282
	3000K Lumens	6,029	11,781	17,580	23,229	28,781	34,441	40,731	46,150	51,480	56,997
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
T3R	4000K/5000K Lumens	6,518	12,739	19,006	25,113	31,116	37,235	44,036	49,895	55,658	61,622
	3000K Lumens	6,029	11,781	17,579	23,229	28,779	34,440	40,729	46,148	51,478	56,995
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T4FT	4000K/5000K Lumens	6,414	12,533	18,702	24,710	30,616	36,637	43,328	49,093	54,763	60,631
	3000K Lumens	6,064	11,849	17,681	23,363	28,946	34,638	40,966	46,417	51,776	57,325
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T4W	4000K/5000K Lumens	6,331	12,372	18,459	24,391	30,221	36,163	42,769	48,459	54,056	59,849
	3000K Lumens	5,986	11,697	17,452	23,061	28,572	34,192	40,436	45,817	51,108	56,585
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL2	4000K/5000K Lumens	6,245	12,205	18,212	24,062	29,813	35,677	42,192	47,807	53,326	59,042
	3000K Lumens	5,904	11,539	17,218	22,750	28,187	33,732	39,891	45,199	50,418	55,822
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL3	4000K/5000K Lumens	6,376	12,460	18,591	24,564	30,436	36,421	43,072	48,803	54,439	60,273
	3000K Lumens	6,028	11,780	17,578	23,224	28,776	34,435	40,723	46,141	51,471	56,986
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL4	4000K/5000K Lumens	6,058	11,838	17,664	23,340	28,918	34,605	40,924	46,370	51,727	57,269
	3000K Lumens	5,727	11,193	16,701	22,067	27,341	32,718	38,692	43,841	48,906	54,146
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	4000K/5000K Lumens	6,577	12,851	19,176	25,336	31,392	37,566	44,426	50,337	56,151	62,170
	3000K Lumens	6,218	12,151	18,131	23,955	29,680	35,517	42,003	47,592	53,089	58,779
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
5MQ	4000K/5000K Lumens	6,697	13,088	19,528	25,803	31,970	38,258	45,243	51,264	57,185	63,313
	3000K Lumens	6,332	12,374	18,463	24,395	30,227	36,171	42,776	48,468	54,066	59,861
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
5WQ	4000K/5000K Lumens	6,715	13,122	19,580	25,871	32,055	38,360	45,365	51,401	57,337	63,482
	3000K Lumens	6,348	12,406	18,513	24,461	30,307	36,268	42,891	48,599	54,210	60,021
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
SLL/SLR	4000K/5000K Lumens	5,604	10,949	16,337	21,586	26,745	32,004	37,850	42,886	47,838	52,965
	3000K Lumens	5,298	10,351	15,446	20,409	25,287	30,258	35,786	40,547	45,229	50,077
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	4000K/5000K Lumens	6,517	12,735	19,002	25,107	31,109	37,227	44,025	49,883	55,644	61,607
	3000K Lumens	6,162	12,040	17,965	23,738	29,413	35,197	41,623	47,163	52,609	58,247
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
AFL	4000K/5000K Lumens	6,541	12,781	19,072	25,199	31,221	37,362	44,185	50,065	55,846	61,831
	3000K Lumens	6,184	12,084	18,032	23,825	29,519	35,325	41,775	47,334	52,801	58,459
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4

* Nominal data for 70 CRI.



Eaton
 1121 Highway 74 South
 Peachtree City, GA 30269
 P: 770-486-4800
www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

CONTROL OPTIONS

0-10V (DIM)

This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (P, R and PER7)

Optional button-type photocontrol (P) and photocontrol receptacles (R and PER7) provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PER7 receptacle.

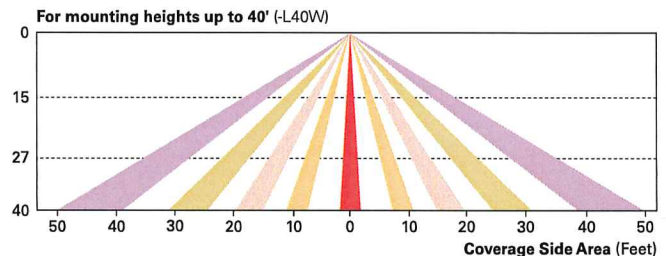
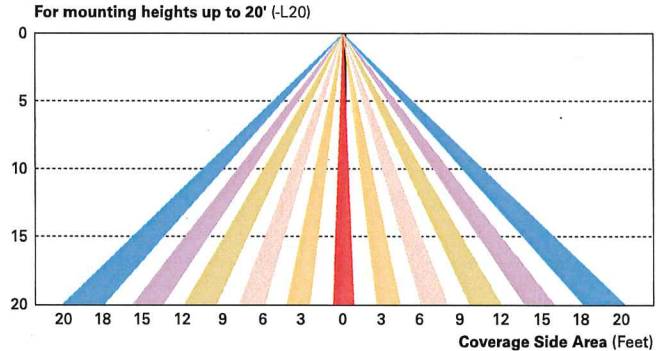
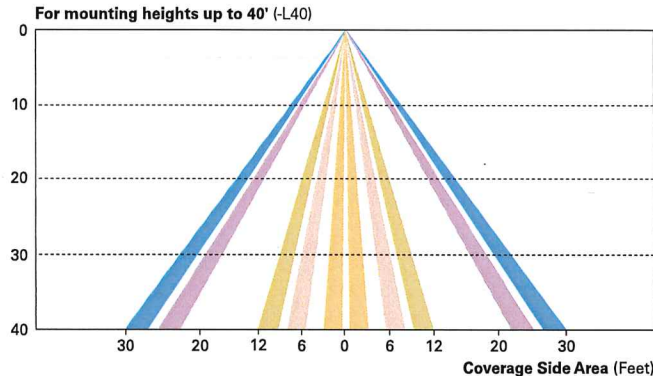
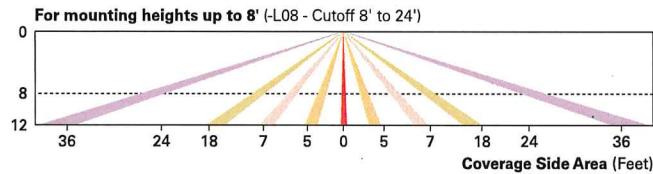
After Hours Dim (AHD)

This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

Dimming Occupancy Sensor (MS/DIM-LXX, MS/X-LXX and MS-LXX)

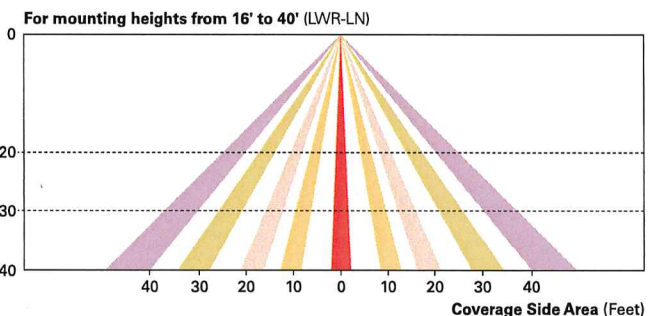
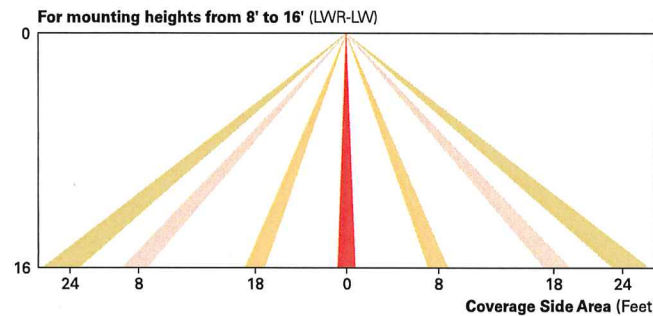
These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. The MS/X-LXX is also preset for five minutes and only controls the specified number of light engines to maintain steady output from the remaining light engines.

These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for "dusk-to-dawn" control or daylight harvesting - the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters. A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-40'.



LumaWatt Pro Wireless Control and Monitoring System (LWR-LW and LWR-LN)

The Eaton's LumaWatt Pro powered by Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.



WaveLinx Wireless Outdoor Lighting Control Module (WOLC-7P-10A)

The 7-pin wireless outdoor lighting control module enables WaveLinx to control outdoor area, site and flood lighting. WaveLinx controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week.

LumenSafe Integrated Network Security Camera (LD)


Eaton brings ease of camera deployment to a whole new level. No additional wiring is needed beyond providing line power to the luminaire. A variety of networking options allows security integrators to design the optimal solution for active surveillance. As the ideal solution to meet the needs for active surveillance, the LumenSafe integrated network camera is a streamlined, outdoor-ready fixed dome that provides HDTV 1080p video. This IP camera is optimally designed for deployment in the video management system or security software platform of choice.

ORDERING INFORMATION

Sample Number: GLEON-AF-04-LED-E1-T3-GM-QM

Product Family ^{1,2}	Light Engine	Number of Light Squares ³	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON-Galleon	AF-1A Drive Current	01=1 02=2 03=3 04=4 05=5 ⁴ 06=6 07=7 ⁵ 08=8 ⁵ 09=9 ⁶ 10=10 ⁶	LED-Solid State Light Emitting Diodes	E1=120-277V 347=347V ⁷ 480=480V ²⁸	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5N0=Type V Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	[Blank]=Arm for Round or Square Pole EA=Extended Arm ⁹ MA=Mast Arm Adapter ¹⁰ WM=Wall Mount QM=Quick Mount Arm (Standard Length) ¹¹ QMEA=Quick Mount Arm (Extended Length) ¹²
Options (Add as Suffix)					Accessories (Order Separately)		
7027=70 CRI 2700K ¹³ 7030=70 CRI 3000K ¹³ 8030=80 CRI 3000K ¹³ 7050=70 CRI 5000K ¹³ 7060=70 CRI 6000K ¹³ 600=Drive Current Set to Nominal 600mA ¹⁵ 800=Drive Current Set to Nominal 800mA ¹⁵ 1200=Drive Current Set to Nominal 1200mA ^{15,18} F=Single Fuse (120, 277 or 347V. Specify Voltage) FF=Double Fuse (208, 240 or 480V. Specify Voltage) 2L=Two Circuits ^{14,18} DIM=External 0-10V Dimming Leads ^{19,20} AHD145=After Hours Dim, 5 Hours ²² AHD245=After Hours Dim, 6 Hours ²² AHD255=After Hours Dim, 7 Hours ²² AHD355=After Hours Dim, 8 Hours ²² HA=50°C High Ambient ²³ L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right MT=Installed Mesh Top TH=Tool-less Door Hardware HSS=Installed House Side Shield ²⁸ CE=CE Marking ²⁹ LCF=Light Square Trim Painted to Match Housing ²⁷					P=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage) ²¹ PER7=NEMA 7-PIN Photocontrol Receptacle ²¹ R=NEMA Photocontrol Receptacle ²¹ MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height ²⁴ MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height ²⁴ MS/DIM-L08= Motion Sensor for Dimming Operation, Maximum 8' Mounting Height ²⁴ MS/DIM-L20= Motion Sensor for Dimming Operation, 9' - 20' Mounting Height ²⁴ MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height ²⁴ MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height ^{24,25} MS/X-L20=Bi-Level Motion Sensor, 21' - 40' Mounting Height ^{24,25} MS/X-L40W=Bi-Level Motion Sensor, 21' - 40' Mounting Height ^{24,25} MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height ²⁴ LWR-LW=LumaWatt Pro Wireless Sensor, Wide Lens for 8' - 16' Mounting Height ²⁶ LWR-LN=LumaWatt Pro Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height ²⁶ ZW =WaveLinX-enabled 4-PIN Twistlock Receptacle ^{19,33} ZW-SWPD4WH=Wavelinx Wireless Sensor, 7' - 15' Mounting Height, White ^{19,33} ZW-SWPD4BZ=Wavelinx Wireless Sensor, 7' - 15' Mounting Height, Bronze ^{19,33} ZW-SWPD5WH=Wavelinx Wireless Sensor, 15' - 40' Mounting Height, White ^{19,33} ZW-SWPD5BZ=Wavelinx Wireless Sensor, 15' - 40' Mounting Height, Bronze ^{19,33}		
NOTES: 1 Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information. 2 DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 3 Standard 4000K CCT and minimum 70 CRI. 4 Not compatible with MS/4-LXX or MS/1-LXX sensors. 5 Not compatible with extended quick mount arm (QMEA). 6 Not compatible with standard quick mount arm (QM) or extended quick mount arm (QMEA). 7 Requires the use of an internal step down transformer when combined with sensor options. Not available with sensor at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A. 8 Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems. 9 May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table. 10 Factory installed. 11 Maximum 8 light squares. 12 Maximum 6 light squares. 13 Extended lead times apply. Use dedicated IES files for 2700K, 3000K, 5000K and 6000K when performing layouts. 14 Reserved 15 1 Amp standard. Use dedicated IES files for 600mA, 800mA and 1200mA when performing layouts. 16 Not available with HA option. 17 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in AF-02 through AF-04 requires a larger housing, normally used for AF-05 or AF-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table. 18 Not available with LumaWatt Pro wireless sensors. 19 Cannot be used with other control options. 20 Low voltage control lead brought out 18" outside fixture. 21 Not available if any "MS" sensor is selected. Motion sensor has an integral photocell. 22 Requires the use of P photocontrol or the PER7 or R photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information. 23 50°C lumen maintenance data applies to 600mA, 800mA and 1A drive currents. 24 The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information. 25 Replace X with number of Light Squares operating in low output mode. 26 LumaWatt Pro wireless sensors are factory installed only requiring network components LWP-EM-1, LWP-GW-1 and LWP-PoE8 in appropriate quantities. See www.eaton.com/lighting for LumaWatt Pro application information. 27 Not available with house side shield (HSS). 28 Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected. 29 CE is not available with the LWR, MS, MS/X, MS/DIM, P, R or PER7 options. Available in 120-277V only. 30 One required for each Light Square. 31 Requires PER7. 32 Reserved. 33 WAC Gateway required to enable field-configurability: Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed. 34 Requires ZW. 35 Reserved.					OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V OA/RA1027=NEMA Photocontrol - 480V OA/RA1021=NEMA Photocontrol - 347V OA/RA1013=NEMA Photocontrol Shorting Cap OA/RA1014=120V Photocontrol MA1252=10kV Surge Module Replacement MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon MA1037-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon MA1197-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon MA1188-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1189-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1190-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1191-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon MA1039-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon MA1192-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon MA1193-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1194-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1195-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon FSIR-100=Wireless Configuration Tool for Occupancy Sensor ²⁴ GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares GLEON-QM=Quick Mount Arm Kit ¹¹ GLEON-QMEA=Quick Mount Extended Arm Kit ¹² LS/HSS=Field Installed House Side Shield ^{28,30} WOLC-7P-10A=WaveLinX Outdoor Control Module ^{19,31} SWPD4-WH=Wavelinx Wireless Sensor, 7' - 15' Mounting Height, White ^{19,33,34} SWPD4-BZ=Wavelinx Wireless Sensor, 7' - 15' Mounting Height, Bronze ^{19,33,34} SWPD5-WH=Wavelinx Wireless Sensor, 15' - 40' Mounting Height, White ^{19,33,34} SWPD5-BZ=Wavelinx Wireless Sensor, 15' - 40' Mounting Height, Bronze ^{19,33,34}		

LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

Product Family	Camera Type	Data Backhaul
L=LumenSafe Technology* 	D=Dome Camera, Standard H=Dome Camera, Hi-Res Z=Dome Camera, Remote PTZ	C=Cellular, Customer Installed SIM Card A=Cellular, Factory Installed AT&T SIM Card V=Cellular, Factory Installed Verizon SIM Card S=Cellular, Factory Installed Sprint SIM Card W=Wi-Fi Networking w/ Omni-Directional Antenna E=Ethernet Networking

*Consult LumenSafe system pages for additional details and compatibility.



Ordering Information

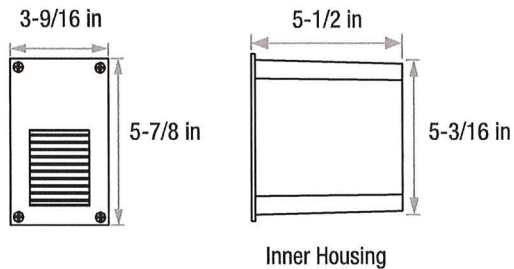
ORDERING INFORMATION

This product has Quick Ship options available. See fclighting.com Quick Ship.

FCSL550											
SERIES	VOLTAGE		SOURCE/TEMPERATURE/LED LUMENS			CRI	FINSH		OPTIONS & ACCESSORIES		
FCSL550	120V	120V	LED	27K	157 Lumens (10W)	CRI85	85 CRI	BK	Black	LD	Dimming 0-10V
	277V	277V		3K		CRI90	90 CRI	BZ	Bronze		
	UNV	120V-277V		35K				CC	Custom Color		
				4K				SL	Silver		
								WH	White		

PRODUCT DIMENSIONS - STANDARD PRODUCT

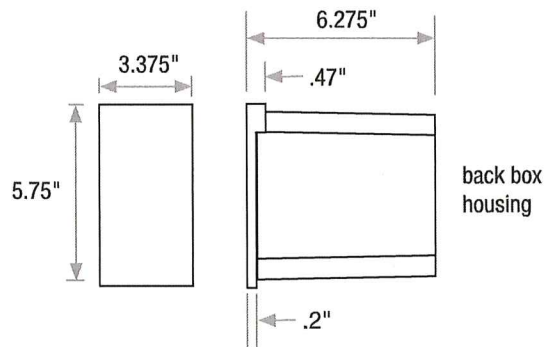
width	3-9/16"
height	5-7/8"
depth	5-1/2"



MOUNTING -

back box width	3.375"
back box height	5.75"
back box depth	6.275"

Back Box mounts inside brick masonry; faceplate in front of surface - see installation instructions for proper mounting directions.



Due to continuous development and improvements, specifications are subject to change without notice. FC Lighting reserves the right to change lab test details or specifications without notice. Product use certifies agreement to FC Lighting terms and conditions.



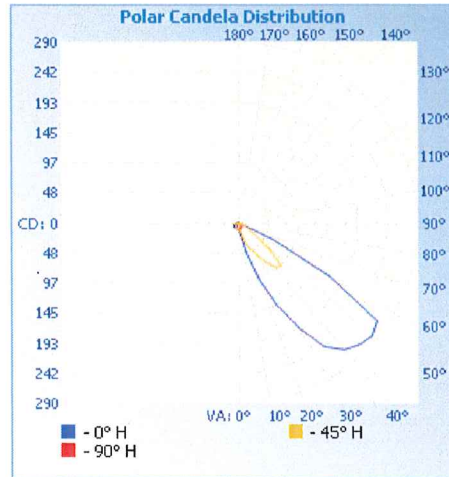
Photometry

OPTICAL DISTRIBUTION

lumen output 157 Lm @ 4000K
power consumption 10W

Illuminance at a Distance			
	Center Beam fc	Beam Width	
1.7ft	3.61 fc	1.1 ft	1.3 ft
3.3ft	0.96 fc	2.2 ft	2.5 ft
5.0ft	0.42 fc	3.3 ft	3.8 ft
6.7ft	0.23 fc	4.4 ft	5.1 ft
8.3ft	0.15 fc	5.5 ft	6.3 ft
10.0ft	0.10 fc	6.6 ft	7.6 ft

■ Vert. Spread: 36.5°
■ Horiz. Spread: 41.6°



iti illuminations testing labroatory: Report #1023

Due to continuous development and improvements, specifications are subject to change without notice. FC Lighting reserves the right to change lab test details or specifications without notice. Product use certifies agreement to FC Lighting terms and conditions.



Excellence in Illumination Engineering Software
since 1984



sample banner copyright 2013 Lighting Analysts, Inc.

Photometric Report (Type C)

Filename: SL_FCSSL-550-120V-4K-160LM.ies
[TEST] TypeC Intensity
[TESTLAB] FC/SSL Lab
[MANUFAC] FC/SSL Lighting
[LUMINAIRE] Exterior Die-Cast 6" Tall Mini Step Light
with Die-Cast or 316 Stainless Steel Faceplate
[LAMP] LED

Maximum Candela = 282.313494147062 at 0 H 50 V

Classification:

Road Classification: Type III, Very Short, N.A. (deprecated)
Upward Wast Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 16
Indoor Classification: Direct
BUG Rating : B0-U1-G0

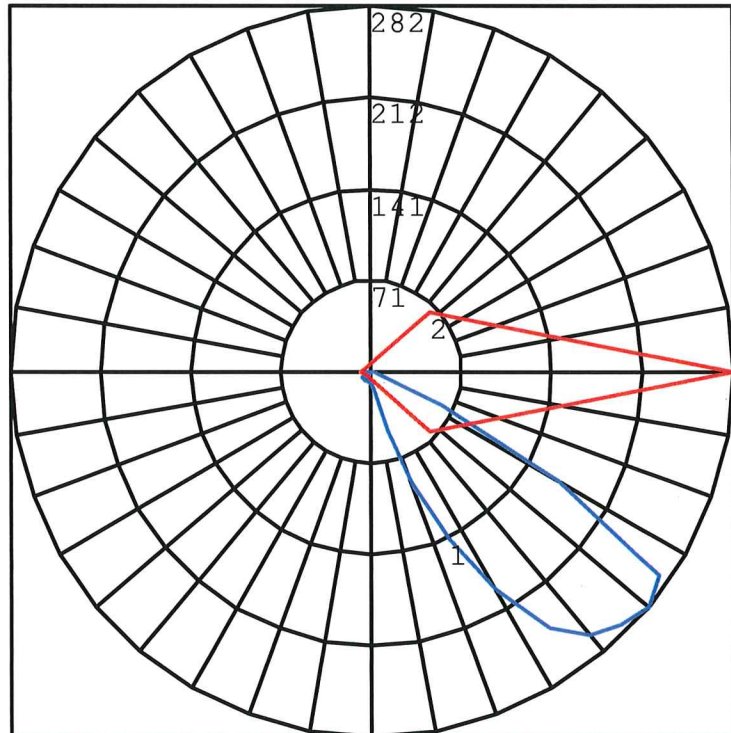
Polar Candela Curves:

Vertical Plane Through:

1) 0 - 180 Horizontal

Horizontal Cone Through:

2) 50 Vertical





Excellence in Illumination Engineering Software
since 1984



sample banner copyright 2013 Lighting Analysts, Inc.

Photometric Report (Type C)

Filename: SL_FCSSL-550-120V-4K-160LM.ies
[TEST] TypeC Intensity
[TESTLAB] FC/SSL Lab
[MANUFAC] FC/SSL Lighting
[LUMINAIRE] Exterior Die-Cast 6" Tall Mini Step Light
with Die-Cast or 316 Stainless Steel Faceplate
[LAMP] LED

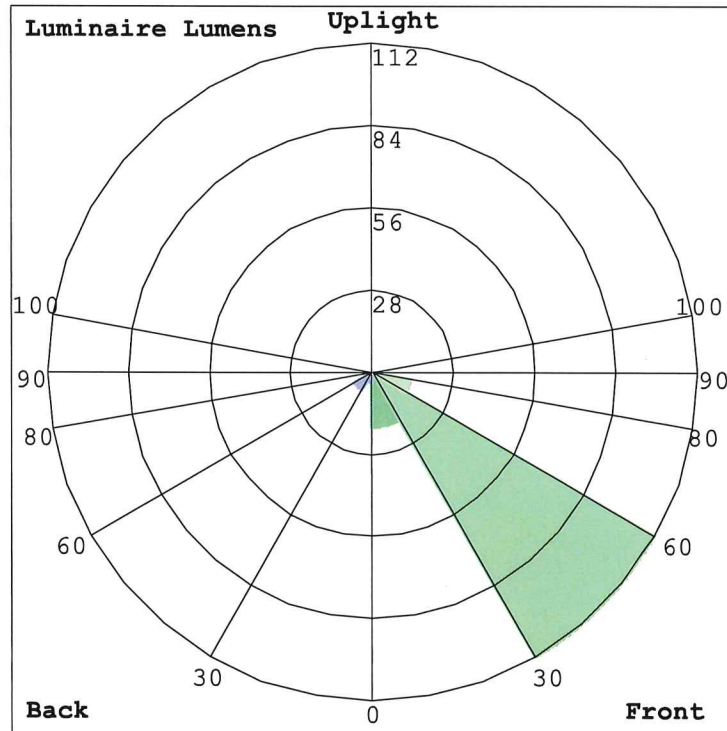
Maximum Candela = 282.313494147062 at 0 H 50 V

Classification:

Road Classification: Type III, Very Short, N.A. (deprecated)
Upward Waste Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 16
Indoor Classification: Direct
BUG Rating : B0-U1-G0

LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	18.7	N.A.	11.9
FM (30-60)	112.5	N.A.	71.5
FH (60-80)	13.3	N.A.	8.5
FVH (80-90)	0.2	N.A.	0.1
BL (0-30)	3.4	N.A.	2.1
BM (30-60)	7.1	N.A.	4.5
BH (60-80)	2.1	N.A.	1.3
BVH (80-90)	0.1	N.A.	0.1
UL (90-100)	0.1	N.A.	0.0
UH (100-180)	< 0.05	N.A.	0.0
Total	157.5	N.A.	100.0
BUG Rating	B0-U1-G0		

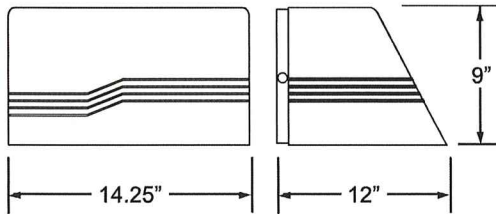


Fixture Performance

Part Number	Total System Watts	L70 Hours @ 25°C	3000K CCT		4000K CCT		5000K CCT	
			Lumens (lm)	Efficacy (LPW)	Lumens (lm)	Efficacy (LPW)	Lumens (lm)	Efficacy (LPW)
TLED110P-42-VS	27W	50,000	1833	69	1850	68	1866	70
TLED110P-66-VS	40W	50,000	N/A	N/A	2906	68	3050	76

NOTE: Lumen maintenance and life (part of LM-80 data) are per published information from primary LED suppliers and is based on design operation at their specified thermal management and electrical design parameters.

Dimensions



Approximate Weight: 16.5 lbs.

Sample Photometrics

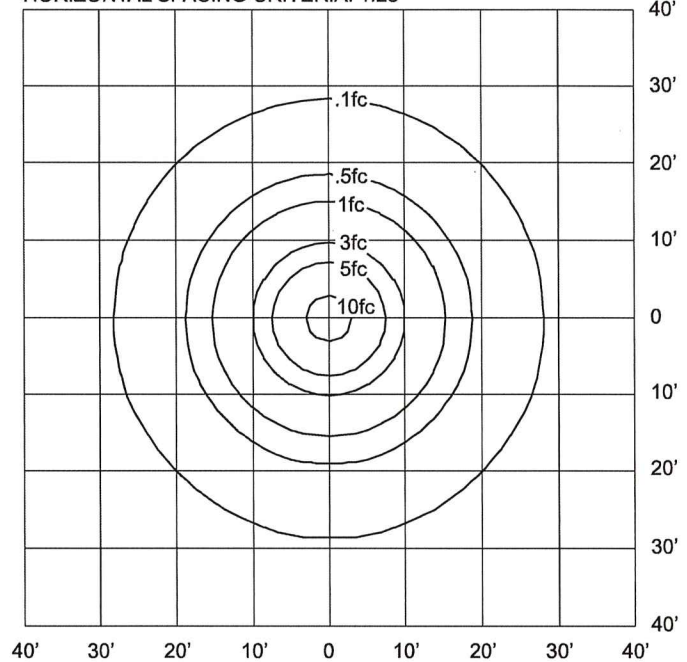
TLED110P-66-VS-4K

IES: TYPE II VERY SHORT

MOUNTING HEIGHT: 10 FEET

TILT: ZERO

HORIZONTAL SPACING CRITERIA: 1.28



Ordering Information

Example: TLED110P-42-VS-5K-TRH

Series	Number of LEDs	Input Voltage	CCT	Options (Factory Installed)
TLED110P	42 = 42 LEDs (27 Watts)	VS = 120~277VAC Voltage Sensing	3K ² = 3000K	BB = Battery Backup
	66 ¹ = 66 LEDs (40 Watts)		4K = 4000K	CC ³ = Custom Color
			5K = 5000K	SZXXX ⁴ = Single Line Side Fuse (120V or 277V)
Notes				TP = 10KVA Transient/Surge Protection
¹ Only available in 4K and 5K				TRH = Tamper Resistant Hardware
² Not available with Battery Backup (BB)				
³ Consult factory for specific part number and details				Accessories⁵ (Field Installed)
⁴ Specify voltage				PCU = 120-277VAC Photocontrol
⁵ Order as separate line item				WG110 = Wire Guard

Specifications are subject to change without notice. Installation must be performed in accordance with Barron Lighting Group Installation Instructions.

10810293 Rev 9 09/19



Excellence in Illumination Engineering Software
since 1984



sample banner copyright 2013 Lighting Analysts, Inc.

Photometric Report (Type C)

Filename: TLED110P-42-VS-5K.IES
[TEST] 33185
[TESTLAB] UNDERWRITERS LABORATORIES INC.
[ISSUE DATE] 7/ 8/2014
[MANUFAC] Barron Lighting Group
[LUMCAT] TLED110P-42-VS-5K
[LUMINAIRE] LED Medium Wallpack, clear glass lens
[LAMP] 42 LEDs. LUMINAIRE OUTPUT: 1866 Lms.

Maximum Candela = 746.1 at 90 H 2.5 V

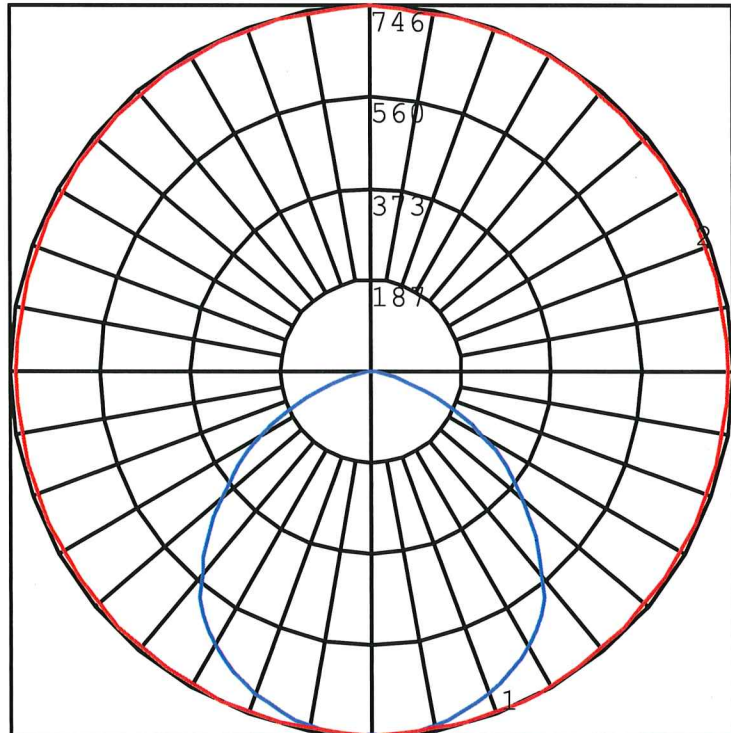
Classification:

Road Classification: Type VS, Very Short, N.A. (deprecated)
Upward Wast Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 70
Indoor Classification: Direct
BUG Rating : B1-U0-G0

Polar Candela Curves:

Vertical Plane Through:
1) 90 - 270 Horizontal

Horizontal Cone Through:
2) 2.5 Vertical





Excellence in Illumination Engineering Software since 1984



sample banner copyright 2013 Lighting Analysts, Inc.

Photometric Report (Type C)

Filename: TLED110P-42-VS-5K.IES
[TEST] 33185
[TESTLAB] UNDERWRITERS LABORATORIES INC.
[ISSUEDATE] 7/ 8/2014
[MANUFAC] Barron Lighting Group
[LUMCAT] TLED110P-42-VS-5K
[LUMINAIRE] LED Medium Wallpack, clear glass lens
[LAMP] 42 LEDs. LUMINAIRE OUTPUT: 1866 Lms.

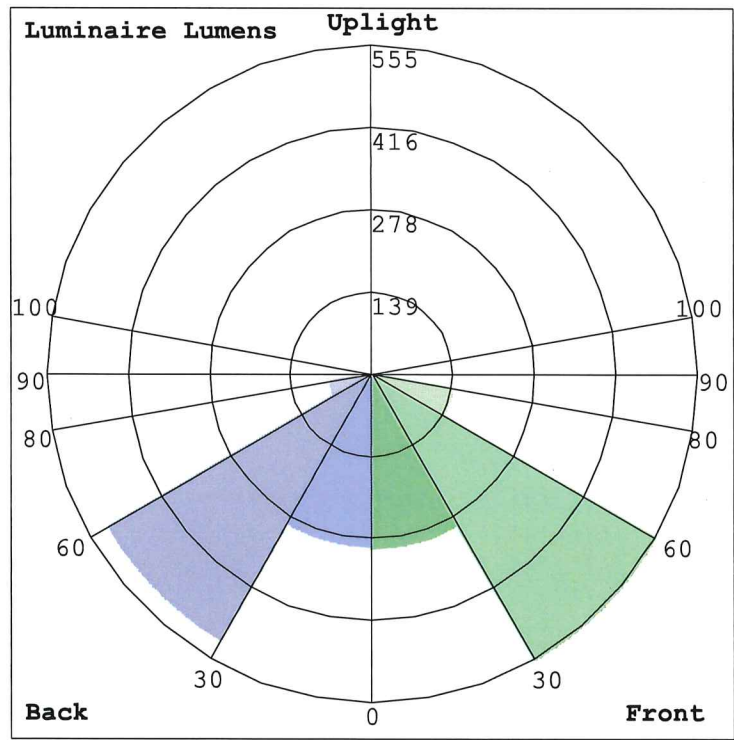
Maximum Candela = 746.1 at 90 H 2.5 V

Classification:

Road Classification: Type VS, Very Short, N.A. (deprecated)
Upward Waste Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 70
Indoor Classification: Direct
BUG Rating : B1-U0-G0

LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	292.6	N.A.	15.7
FM (30-60)	555.0	N.A.	29.8
FH (60-80)	138.3	N.A.	7.4
FVH (80-90)	1.0	N.A.	0.1
BL (0-30)	289.6	N.A.	15.5
BM (30-60)	516.9	N.A.	27.7
BH (60-80)	71.3	N.A.	3.8
BVH (80-90)	0.6	N.A.	0.0
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	1865.3	N.A.	100.0
BUG Rating	B1-U0-G0		





Excellence in Illumination Engineering Software
since 1984



sample banner copyright 2013 Lighting Analysts, Inc.

Photometric Report (Type C)

Filename: W2_DE E22.ies

[TEST] ITL82813

[TESTLAB] INDEPENDENT TESTING LABORATORIES, INC.

[MANUFAC] MANNING LIGHTING INC

[LUMCAT] LBI

[LUMINAIRE] FABRICATED WHITE PAINTED METAL WALL

MOUNTING PLATE, FORMED WHITE PAINTED METAL CIRCUIT

BOARD MOUNT, 2 WHITE CIRCUIT BOARDS MOUNTED OBLIQUELY ACROSS CIRCUIT BOARD MOUNT EACH WITH 24

[LAMP] FORTY-EIGHT WHITE MULTI-CHIP LIGHT EMITTING
DIODES (LEDS), AIMED AT THE HORIZON.

Maximum Candela = 240.349995017052 at 0 H 92.5 V

Classification:

Road Classification: N.A., N.A., N.A. (deprecated)

Upward Wast Light Ratio: 0.50

Luminaire Efficacy Rating (LER): 47

Indoor Classification: General Diffuse

BUG Rating : B0-U3-G1

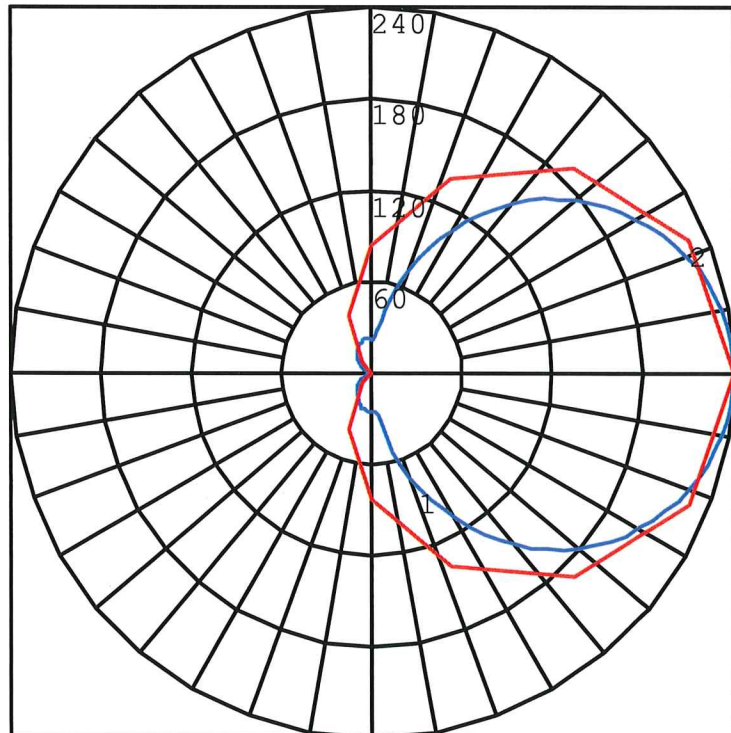
Polar Candela Curves:

Vertical Plane Through:

1) 0 - 180 Horizontal

Horizontal Cone Through:

2) 92.5 Vertical





Excellence in Illumination Engineering Software
since 1984



sample banner copyright 2013 Lighting Analysts, Inc.

Photometric Report (Type C)

Filename: W2_DE E22.ies

[TEST] ITL82813

[TESTLAB] INDEPENDENT TESTING LABORATORIES, INC.

[MANUFAC] MANNING LIGHTING INC

[LUMCAT] LBI

[LUMINAIRE] FABRICATED WHITE PAINTED METAL WALL

MOUNTING PLATE, FORMED WHITE PAINTED METAL CIRCUIT

BOARD MOUNT, 2 WHITE CIRCUIT BOARDS MOUNTED OBLIQUELY ACROSS CIRCUIT BOARD MOUNT EACH WITH 24

[LAMP] FORTY-EIGHT WHITE MULTI-CHIP LIGHT EMITTING
DIODES (LEDS), AIMED AT THE HORIZON.

Maximum Candela = 240.349995017052 at 0 H 92.5 V

Classification:

Road Classification: N.A., N.A., N.A. (deprecated)

Upward Waste Light Ratio: 0.50

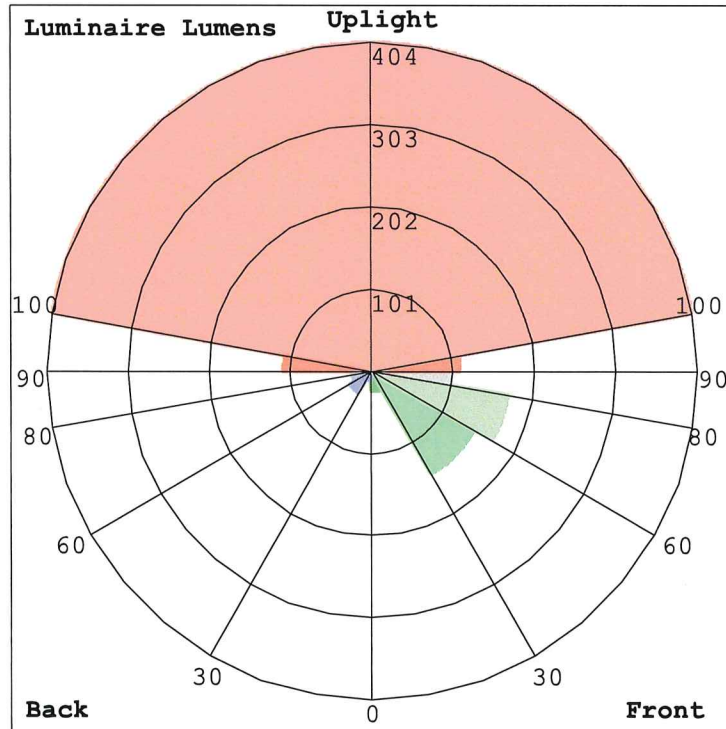
Luminaire Efficacy Rating (LER): 47

Indoor Classification: General Diffuse

BUG Rating : B0-U3-G1

LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	25.1	N.A.	2.4
FM (30-60)	146.1	N.A.	14.1
FH (60-80)	171.6	N.A.	16.6
FVH (80-90)	97.2	N.A.	9.4
BL (0-30)	11.2	N.A.	1.1
BM (30-60)	30.9	N.A.	3.0
BH (60-80)	24.6	N.A.	2.4
BVH (80-90)	12.2	N.A.	1.2
UL (90-100)	109.9	N.A.	10.6
UH (100-180)	404.1	N.A.	39.1
Total	1032.9	N.A.	100.0
BUG Rating	B0-U3-G1		





Excellence in Illumination Engineering Software
since 1984



sample banner copyright 2013 Lighting Analysts, Inc.

Photometric Report (Type C)

Filename: W3_11328494-1260980.ies
[TEST] 1260980
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 6/23/2016
[MANUFAC] Baselite Corp
[LUMCAT] W516/ 12W LED/ 5K
[LUMINAIRE] Black aluminum hood, white reflector, and
frosted lens
[LAMP] One (1) white LED
[BALLAST] Inventronics LUC-012S035DSM

Maximum Candela = 381.4 at 0 H .5 V

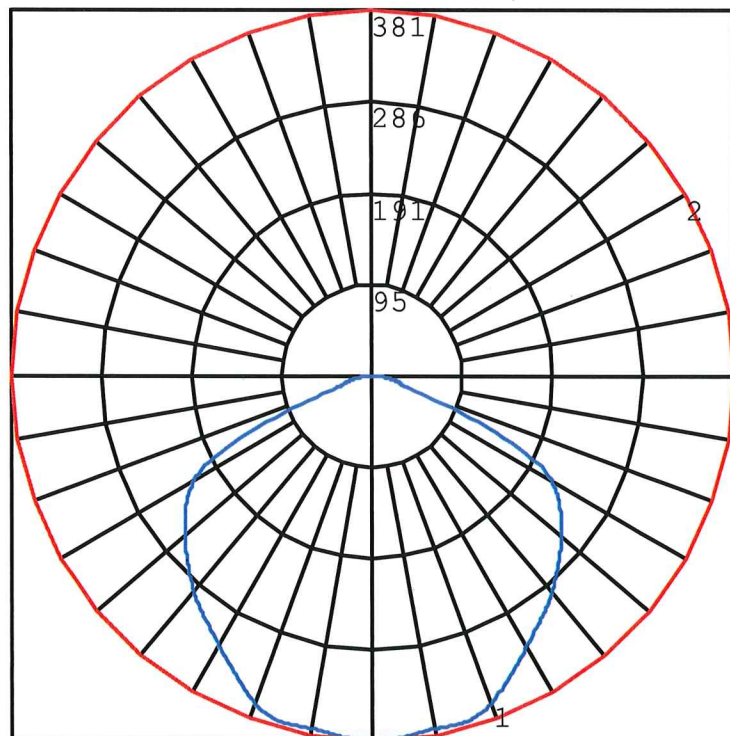
Classification:

Road Classification: Type V, Very Short, N.A. (deprecated)
Upward Wast Light Ratio: 0.00
Luminaire Efficacy Rating (LER): 111
Indoor Classification: Direct
BUG Rating : B1-U0-G0

Polar Candela Curves:

Vertical Plane Through:
1) 0 - 180 Horizontal

Horizontal Cone Through:
2) 0.5 Vertical





Excellence in Illumination Engineering Software
since 1984



sample banner copyright 2013 Lighting Analysts, Inc.

Photometric Report (Type C)

Filename: W3_11328494-1260980.ies
 [TEST] 1260980
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 6/23/2016
 [MANUFAC] Baselite Corp
 [LUMCAT] W516/ 12W LED/ 5K
 [LUMINAIRE] Black aluminum hood, white reflector, and
 frosted lens
 [LAMP] One (1) white LED
 [BALLAST] Inventronics LUC-012S035DSM

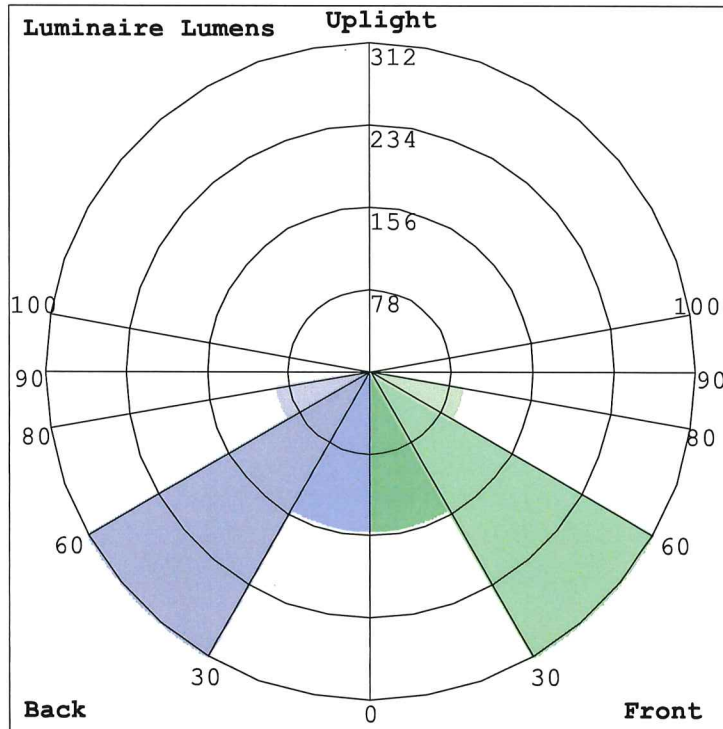
Maximum Candela = 381.4 at 0 H .5 V

Classification:

Road Classification: Type V, Very Short, N.A. (deprecated)
 Upward Waste Light Ratio: 0.00
 Luminaire Efficacy Rating (LER): 111
 Indoor Classification: Direct
 BUG Rating : B1-U0-G0

LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	150.3	N.A.	13.5
FM (30-60)	312.1	N.A.	28.0
FH (60-80)	89.6	N.A.	8.0
FVH (80-90)	5.2	N.A.	0.5
BL (0-30)	150.3	N.A.	13.5
BM (30-60)	312.1	N.A.	28.0
BH (60-80)	89.6	N.A.	8.0
BVH (80-90)	5.2	N.A.	0.5
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	1114.4	N.A.	100.0
BUG Rating	B1-U0-G0		





Excellence in Illumination Engineering Software
since 1984



sample banner copyright 2013 Lighting Analysts, Inc.

Photometric Report (Type C)

Filename: W4_EW53908.IES
[TEST] 260 16
[TESTLAB] Kuzco Lighting
[ISSUEDATE] 2016-01-28 12:30:48
[MANUFAC] Kuzco Lighting
[LUMCAT] EW53908
[LUMINAIRE] Wall Mounted
[LAMPCAT] DIS 01-600-830-120-S1 (Shielded)
[LAMP] 120V LED

Maximum Candela = 191.16 at 190 H 85 V

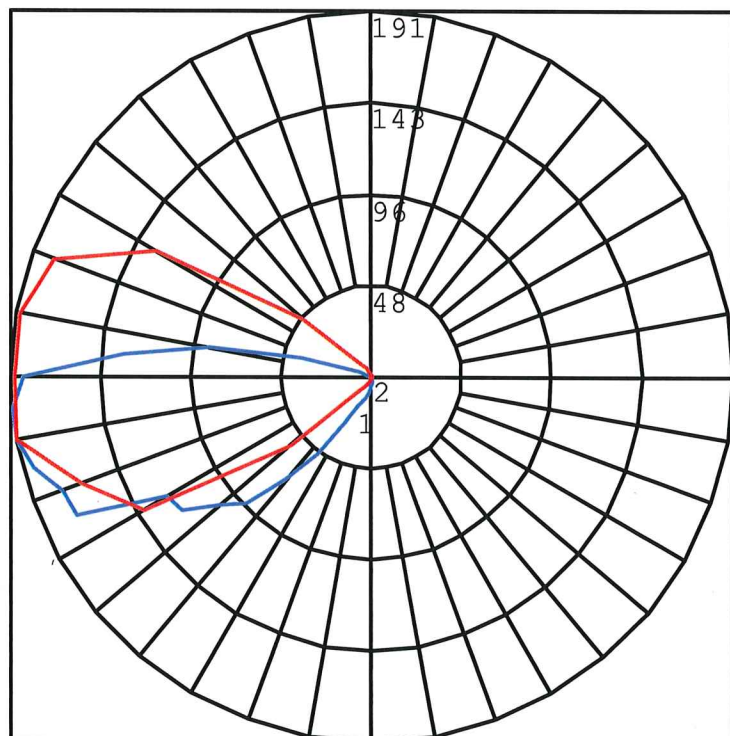
Classification:

Road Classification: N.A., N.A., Non-Cutoff (deprecated)
Upward Wast Light Ratio: 0.18
Luminaire Efficacy Rating (LER): 27
Indoor Classification: Semi-Direct
BUG Rating : B0-U2-G1

Polar Candela Curves:

Vertical Plane Through:
1) 190 - 10 Horizontal

Horizontal Cone Through:
2) 85 Vertical





Excellence in Illumination Engineering Software since 1984



sample banner copyright 2013 Lighting Analysts, Inc.

Photometric Report (Type C)

Filename: W4_EW53908.IES
[TEST] 260 16
[TESTLAB] Kuzco Lighting
[ISSUEDATE] 2016-01-28 12:30:48
[MANUFAC] Kuzco Lighting
[LUMCAT] EW53908
[LUMINAIRE] Wall Mounted
[LAMPCAT] DIS 01-600-830-120-S1 (Shielded)
[LAMP] 120V LED

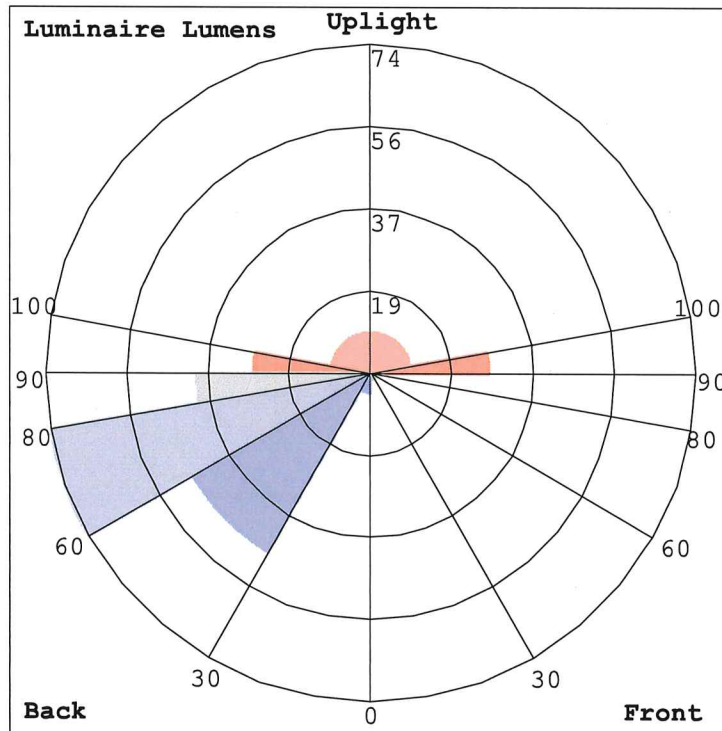
Maximum Candela = 191.16 at 190 H 85 V

Classification:

Road Classification: N.A., N.A., Non-Cutoff (deprecated)
Upward Waste Light Ratio: 0.18
Luminaire Efficacy Rating (LER): 27
Indoor Classification: Semi-Direct
BUG Rating : B0-U2-G1

LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	1.1	0.5	0.5
FM (30-60)	1.4	0.7	0.7
FH (60-80)	0.7	0.3	0.3
FVH (80-90)	0.3	0.1	0.1
BL (0-30)	4.3	2.1	2.1
BM (30-60)	46.7	22.8	22.9
BH (60-80)	74.3	36.2	36.4
BVH (80-90)	39.7	19.4	19.4
UL (90-100)	26.7	13.0	13.1
UH (100-180)	9.0	4.4	4.4
Total	204.2	99.5	100.0
BUG Rating	B0-U2-G1		






Exterior LED Cylinder Lighting To The Next Level

Design & Construction: FC Lighting has developed the latest durable, high output exterior cylinder line on the market. Engineered with a revolutionary heat dissipation component, these fixtures come available with style, optics choices, mounting options and accessories that create limitless possibilities for any lighting specifier's dream application. These Cylinders provide an unmatched flexibility for specifying powerful lighting with an equally sophisticated style.

Style & Accessories: Add to your dream specification with an *Angle Cut Visor* or *Up / Down Lighting* solution. With design flexibility only limited by the imagination, specifiers can create an environment with contemporary style and mood enhancing control features that complement any application. *FCC Series Cylinders* come in 4", 6", 8" and 10" diameters that are available from 10" up to 20" long.

Output and Optics Flexibility: American engineered performance features create high lumen output with a high efficacy. The engineers at FC Lighting have designed optics options that hand over control of beam and field angle effects. *FCC Series Cylinders* are the ultimate solution that allow designers the ability to customize lighting for their clients specific needs.

Power Dimming & EMR Flexibility: The latest development in the *FCC Series Cylinder* line created the widest variety of integral power, dimming and control solutions possible. EMR and wireless controls all compatible with Dali, DMX, ELV and 0-10% dimming protocols. Lutron Ecosystem® compatibility and eLdoLED drivers are also available. *FCC Series Cylinders* are the most comprehensive cylinder lighting solutions available on the market today!



FCC400 Series

ORDERING INFORMATION

FCC400																			
model	height	mounting	voltage	source	CCT	CRI	lumen output		finish	optics									
FCC400	Ø4.25"	10	SF	Surface	UNV	120V-277V	LED	27K	2700K	CR83	83 CRI	Down	Up	BK	black	Down			
		12	WM	Wall	347V	347V		3K	3000K	<i>CR93 Standard</i>		5L	500 Lm (5W)	5L	BZ	bronze	D 10	10° Narrow Spot	U 10
		14	PD	Pendant				35K	3500K	CR93	93 CRI	10L	1000 Lm (10W)	10L	WH	white		<i>D 10° - 1500 Lm max - U 10°</i>	
		16	CM	Cord				<i>No 97 CRI on 35K</i>		CR97	97 CRI	15L	1500 Lm (15W)	15L	SL	silver	D 15	15° Spot	U 15
		18	SM	Slope				4K	4000K			20L	2000 Lm (21W)	20L	CC	custom color		<i>D 15° - 2500 Lm max - U 15°</i>	
		20						57K	5700K			25L	2500 Lm (27W)	25L			D 25	25° Mid-Spot	U 25
								<i>No 97 CRI on 57K</i>									D 30	30° Narrow Flood	U 30
								R	Red								D 50	50° Flood	U 50
								G	Green								D 90	90° Flat	U 90
								B	Blue										

Total fixture lumens cannot exceed 3000 Lm - additional driver required for unequal output selections. 3000 Lm only available in one direction.

30L 3000 Lm (34W) **30L**
83 CRI only on 30L

Contact the Factory for Non-LED source options

Standard Driver Included: LED dimming: 0-10V, 1%

Driver Options (all drivers are 120V-277V unless otherwise specified)

MATCH SELECTION FROM CCT COLUMN ABOVE TO ONE CHOICE OF DRIVER FROM TABLE BELOW - review Driver Table on Pg 10 for driver specifications

STANDARD CCT (UNV) DRIVER OPTIONS	LUTRON DRIVER OPTIONS	eldoLED DRIVER OPTIONS	STANDARD CCT (347V) DRIVER OPTIONS
ET ELV or TRIAC	L2 Lutron 1%, 2-Wire, Forward Phase	E1 eldoLED 0-10V, Dim-to-Off	A3 347V 0-10V, Dim to 10%
LD 0-10V Dimming (1%)	L5 Lutron Ecosystem, 0.1%, Soft-on, Dim-to-Off	E2 eldoLED DALI, Dim-to-Off	
DMX DMX Dim to 0.1%,		E5 eldoLED 0-10, Dim to 1%	
DL DALI Dim to 0.1%,		E6 eldoLED DALI, Dim to 1%	
		E7 eldoLED DMX, Dim-to-Off	

Options (choose one per fixture)

SF Soft Field (solite)	BBU Battery Backup (Remote)
CPLX Custom Length Pendant (X=inches)	
CBLX Custom Length Cable (X=inches)	
OPC Opal Polycarbonate Lens	
CV Cut-Off Visor	

PHYSICAL

DIMENSIONS

diameter/height	diameter: 6.3" height: 6" 8" 10" 12" 14" 16" 18" 20"
weight	5-10 lb (length dependent)

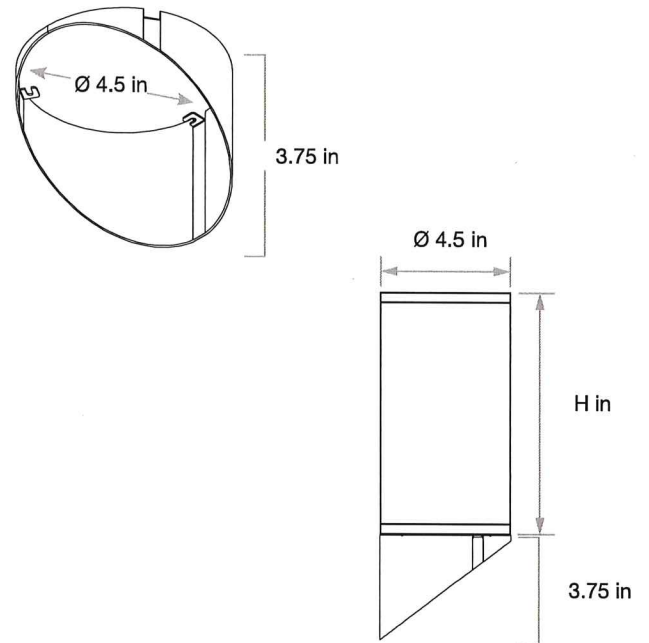
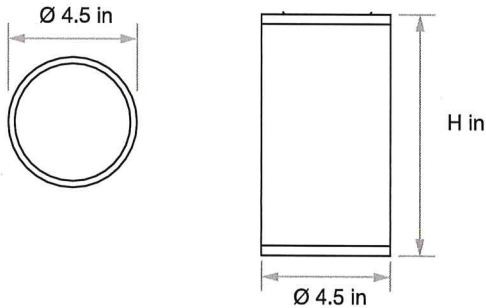
mounting	twist-lock surface mount twist-lock pendant wall mount slope mount twist-lock cord surface mount conduit adapter yoke
-----------------	---

PRODUCT DIMENSIONS

diameter	Ø 4.5"
height	9.92" 13.92" 21.86"

CUT OFF VISOR

CV - cut-off visor	3.75" D
total fixture height	H + 3.75" D



CONSTRUCTION & FINISH

housing	no visible seams or fasteners, marine grade, corrosion resistant, solid aluminum extrusion, die-cast aluminum components
lens	IK05 impact compliant, clear anti-glare tempered glass
finish	7-stage UV stable polyester powder coat

PHOTOGRAPH BY THE COMPANY IS
PROPERTY OF THE COMPANY AND IS NOT TO BE
REPRODUCED OR TRANSMITTED IN ANY FORM OR
BY ANY MEANS, ELECTRONIC OR MECHANICAL,
INCLUDING PHOTOCOPYING, RECORDING, OR BY
ANY INFORMATION STORAGE AND RETRIEVAL
SYSTEM.



SURFACE MOUNT		PENDANT MOUNT	WALL MOUNT	
SF - surface mount	4.25" W		WM - wall mount	2.05" D
add to fixture height	1.4"		total fixture depth	8.36" D

Side view dimensions: 1.4 in (flange), 9.92 in (height), $\varnothing 5.4$ in (top), $\varnothing 4.5$ in (bottom).

Top view dimensions: $\varnothing 3.5$ " (outer), $\varnothing 0.872$ " (hole), 5.1" (width), 30° bolt spacing.

Side view dimensions: 9.92 in (height), 6.52 in (top width), 5.52 in (depth), $\varnothing 4.5$ in (diameter).

Top view dimensions: $\varnothing 3.55$ in (diameter).

Mounting bracket dimensions: 3.3" (width), 5.1" (height).
 Hole diameters: $\varnothing 0.63$ ", $\varnothing 1.2$ ", $\varnothing 1.6$ ", $\varnothing 2.8$ ", $\varnothing 3.5$ ".

Wall Mount J-Box Mounting Bracket (included)

Photometric Report (Type C)

Filename: W5_FCC410W-D-18.IES

[TEST] TypeC Intensity

[TESTLAB] FC/SSL Lab

[MANUFAC] FC/SSL Lighting

[LUMINAIRE] 4" Round Wall, Pendant or Surface Mounted

Die-Cast Aluminum Cylinder.

[LAMP] LED

Maximum Candela = 4929.4 at 0 H 0 V

Classification:

Road Classification: Type V, Very Short, N.A. (deprecated)

Luminaire Efficacy Rating (LER): 183

Indoor Classification: Direct

BUG Rating : B0-U2-G1

Polar Candela Curves:

Vertical Plane Through:

1) 0 - 180 Horizontal

Horizontal Cone Through:

2) 0 Vertical

