



Gardco PureForm LED area medium P26 features a sleek, low profile design and optimal performance. PureForm area medium is designed to achieve maximum pole spacing, with lumen output up to 28,900 lumens. Multiple distribution and shielding options are available to achieve maximum control. A full range of control options provides additional energy savings.

Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Lumens: \_\_\_\_\_ Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

### Ordering guide example: P26-64L-800-NW-G2-AR-3-120-HIS-MGY

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounting	Distribution	Voltage
<b>P26</b>				<b>OA3</b>		
<b>P26</b> PureForm area medium, 26"	<b>48L</b> 48 LEDs (3 modules)	<b>400</b> 400mA	<b>WW-G2</b> Warm White 3000K, 70CRI Generation 2	<b>AR</b> Arm Mount (standard) <sup>2</sup> The following mounting kits must be ordered separately (See accessories) <b>SF</b> Slip Fitter Mount <sup>3</sup> (fits to 2 <sup>3</sup> / <sub>8</sub> " O.D. tenon) <b>WS</b> Wall mount with surface conduit rear entry permitted <b>RAM</b> Retrofit arm mount kit <sup>2</sup>	<b>Type 2</b>	<b>Type 5</b>
		<b>500</b> 500mA	<b>NW-G2</b> Neutral White 4000K, 70CRI Generation 2		<b>2</b> Type 2	<b>5</b> Type 5
		<b>600</b> 600mA			<b>2-90</b> Rotated at 90°	<b>5W</b> Type 5W
		<b>700</b> 700mA			<b>2-270</b> Rotated at 270°	<b>AFR</b> Auto Front Row
	<b>64L</b> 64 LEDs (4 modules)	<b>600</b> 600mA			<b>CW-G2</b> Cool White 5000K, 70CRI Generation 2	<b>Type 3</b>
		<b>700</b> 700mA	<b>3</b> Type 3			<b>AFR-270</b> Auto Front Row, rotated at 270°
		<b>800</b> 800mA	<b>3-90</b> Rotated at 90°			<b>BLC</b> Back Light Control rotated at 90°
		<b>800</b> 800mA	<b>3-270</b> Rotated at 270°			<b>BLC-90</b> Back Light Control rotated at 90°
	<b>80L</b> 80 LEDs (5 modules)	<b>700</b> 700mA	<b>WY-G2</b> Warm Yellow 2700K, 80 CRI Generation 2 <sup>1</sup>		<b>Type 4</b>	<b>BLC-270</b> Back Light Control rotated at 270°
		<b>800</b> 800mA			<b>4</b> Type 4	
		<b>900</b> 900mA			<b>4-90</b> Rotated at 90°	
		<b>900</b> 900mA			<b>4-270</b> Rotated at 270°	
<b>Options</b>						
<b>Dimming controls</b>	<b>Motion sensing lens</b>	<b>Photo-sensing</b>	<b>OA4</b>	<b>Electrical</b>	<b>OAB</b>	<b>Finish</b>
<b>DD</b> 0-10V External dimming (by others) <sup>4</sup> <b>DCC</b> Dual Circuit Control <sup>4,5,6</sup> <b>FAWS</b> Field Adjustable Wattage Selector <sup>4,5</sup> <b>LLC</b> Integral wireless module <sup>4,6,7,17</sup> <b>BL</b> Bi-level functionality <sup>4,17</sup> <b>DynaDimmer:</b> Automatic Profile Dimming <b>CS50</b> Security 50% Dimming, 7 hours <sup>4,7</sup> <b>CM50</b> Median 50% Dimming, 8 hours <sup>4,7</sup> <b>CS30</b> Security 30% Dimming, 7 hours <sup>4,7</sup> <b>CM30</b> Median 30% Dimming, 8 hours <sup>4,7</sup>	<b>IMRI3</b> Integral with #3 lens <sup>15</sup> <b>IMRI7</b> Integral with #7 lens <sup>16</sup>	<b>PCB</b> Photocontrol Button <sup>7,8</sup> <b>TLRD5</b> Twist Lock Receptacle 5 Pin <sup>9</sup> <b>TLRD7</b> Twist Lock Receptacle 7 Pin <sup>9</sup> <b>TLRPC</b> Twist Lock Receptacle w/Photocell <sup>8,10</sup>	<b>Fusing</b> <b>F1</b> Single (120, 277, 347VAC) <sup>8</sup> <b>F2</b> Double (208, 240, 480VAC) <sup>8</sup> <b>F3</b> Canadian Double Pull (208, 240, 480VAC) <sup>8,12</sup> <b>Pole Mount Fusing</b> <b>FP1</b> Single (120, 277, 347VAC) <sup>8</sup> <b>FP2</b> Double (208, 240, 480VAC) <sup>8</sup> <b>FP3</b> Canadian Double Pull (208, 240, 480VAC) <sup>8</sup> <b>Surge Protection (10kA standard)</b> <b>SP2</b> Increased 20kA	<b>Square Pole Adapter</b> included as standard <b>TB</b> Terminal Block <sup>11</sup> <b>RPA</b> Round Pole Adapter (fits to 3"- 3.9" O.D. pole) <sup>12</sup> <b>HIS</b> Internal Housing Side Shield <sup>13</sup>	<b>Textured</b> <b>BK</b> Black <b>WH</b> White <b>BZ</b> Bronze <b>DGY</b> Dark Gray <b>MGY</b> Medium Gray <b>Customer specified</b> <b>RAL</b> Specify optional color or RAL (ex: RAL7024) <b>CC</b> Custom color (Must supply color chip for required factory quote)	

- Extended lead times apply. Contact factory for details.
- Mounts to a 4-5" round pole with adapter included for square poles.
- Limited to a maximum of 45 degrees aiming above horizontal.
- Not available with other dimming control options.
- Not available with motion sensor.
- Not available with photocontrol.
- Not available in 347 or 480V.
- Must specify input voltage.
- Dimming will not be connected to NEMA receptacle if ordering with other control options.
- Not available in 480V. Order photocell separately with TLRD5/7.
- Not available with DCC.
- Not available with SF and WS. RPAs provided with black finish standard.
- HIS not available with Type 5, 5W, and BLC optics.
- Limited to max. 600mA configurations.
- Not available with DD, DCC, and FAWS dimming control options.
- Not available with DD, DCC, FAWS and LLC dimming control options.
- Must specify a motion sensor lens.



# P26 PureForm LED medium

## Area light

PureForm P26<sup>2</sup> Accessories (ordered separately, field installed)

Shielding Accessories	Mounting Accessories
<b>House Side shield</b>	
Standard optic orientation:	
<b>HIS-48-H</b> <sup>1</sup>	Internal House Side Shield for 48 LEDs (3 modules)
<b>HIS-64-H</b> <sup>1</sup>	Internal House Side Shield for 64 LEDs (4 modules)
<b>HIS-80-H</b> <sup>1</sup>	Internal House Side Shield for 80 LEDs (5 modules)
Optic at 90 or 270 orientation:	
<b>HIS-48-V</b> <sup>1</sup>	Internal House Side Shield for 48 LEDs (3 modules)
<b>HIS-64-V</b> <sup>1</sup>	Internal House Side Shield for 64 LEDs (4 modules)
<b>HIS-80-V</b> <sup>1</sup>	Internal House Side Shield for 80 LEDs (5 modules)
<b>PureForm PTF2</b> (pole top fitter fits 2 3/8-2 1/2" OD x 4" depth tenon)	
<b>PTF2-P26/34-1-90-(F)</b>	1 luminaire at 90°
<b>PTF2-P26/34-2-90-(F)</b>	2 luminaires at 90°
<b>PTF2-P26/34-2-180-(F)</b>	2 luminaires at 180°
<b>PTF2-P26/34-3-90-(F)</b>	3 luminaires at 90°
<b>PTF2-P26/34-4-90-(F)</b>	4 luminaires at 90°
<b>PTF2-P26/34-3-120-(F)</b>	3 luminaires at 120°
<b>PureForm PTF3</b> (pole top fitter fits 3-3 1/2" OD x 6" depth tenon)	
<b>PTF3-P26/34-1-90-(F)</b>	1 luminaire at 90°
<b>PTF3-P26/34-2-90-(F)</b>	2 luminaires at 90°
<b>PTF3-P26/34-2-180-(F)</b>	2 luminaires at 180°
<b>PTF3-P26/34-3-90-(F)</b>	3 luminaires at 90°
<b>PTF3-P26/34-4-90-(F)</b>	4 luminaires at 90°
<b>PTF3-P26/34-3-120-(F)</b>	3 luminaires at 120°
<b>PureForm PTF4</b> (pole top fitter fits 3 1/2-4" OD x 6" depth tenon)	
<b>PTF4-P26/34-1-90-(F)</b>	1 luminaire at 90°
<b>PTF4-P26/34-2-90-(F)</b>	2 luminaires at 90°
<b>PTF4-P26/34-2-180-(F)</b>	2 luminaires at 180°
<b>PTF4-P26/34-3-90-(F)</b>	3 luminaires at 90°
<b>PTF4-P26/34-4-90-(F)</b>	4 luminaires at 90°
<b>PTF4-P26/34-3-120-(F)</b>	3 luminaires at 120°
<b>P26-SF-G2-(F)</b>	Slip Fitter Mount (fits to 2 3/8" O.D. tenon)
<b>P26-RAM-G2-(F)</b>	Retrofit Arm mount kit
<b>P26-WS-G2-(F)</b>	Wall mount with surface conduit rear entry permitted
<b>P26-BD-G2</b>	Bird deterrent
(F) = Specify finish	

- HIS not available with Type 5, 5W, and BLC optics.
- Consult Signify to confirm whether specific accessories are BAA-compliant.

# P26 PureForm LED medium

## Area light

### LED Wattage and Lumen Values - 3000K

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
P26-48L-400-WW-G2-x	48	400	3000	60	7,673	B2-U0-G2	128	7,420	B1-U0-G2	124	7,698	B1-U0-G2	128
P26-48L-500-WW-G2-x	48	500	3000	74	9,380	B2-U0-G2	126	9,070	B2-U0-G2	122	9,409	B2-U0-G2	127
P26-48L-600-WW-G2-x	48	600	3000	89	10,967	B3-U0-G2	123	10,604	B2-U0-G2	119	10,999	B2-U0-G2	124
P26-48L-700-WW-G2-x	48	700	3000	101	12,477	B3-U0-G2	123	12,064	B2-U0-G2	119	12,514	B2-U0-G2	124
P26-64L-600-WW-G2-x	64	600	3000	114	14,493	B3-U0-G3	127	14,013	B2-U0-G3	123	14,536	B2-U0-G3	127
P26-64L-700-WW-G2-x	64	700	3000	133	16,402	B3-U0-G3	124	15,859	B2-U0-G3	119	16,451	B3-U0-G3	124
P26-64L-800-WW-G2-x	64	800	3000	153	18,384	B3-U0-G3	121	17,775	B3-U0-G3	117	18,438	B3-U0-G3	121
P26-80L-700-WW-G2-x	80	700	3000	169	20,727	B3-U0-G3	123	20,041	B3-U0-G4	119	20,788	B3-U0-G4	123
P26-80L-800-WW-G2-x	80	800	3000	192	22,735	B3-U0-G3	119	21,983	B3-U0-G4	115	22,803	B3-U0-G4	119
P26-80L-900-WW-G2-x	80	900	3000	219	24,409	B3-U0-G3	111	23,602	B3-U0-G4	108	24,482	B3-U0-G4	112

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 5			Type 5W			Type AFR			Type BLC		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
P26-48L-400-WW-G2-x	48	400	3000	60	7,916	B3-U0-G2	132	7,948	B3-U0-G2	132	7,854	B2-U0-G1	131	5,872	B0-U0-G2	98
P26-48L-500-WW-G2-x	48	500	3000	74	9,674	B3-U0-G2	130	9,716	B4-U0-G2	131	9,599	B2-U0-G2	129	7,178	B0-U0-G2	97
P26-48L-600-WW-G2-x	48	600	3000	89	11,308	B4-U0-G2	127	11,359	B4-U0-G2	128	11,223	B3-U0-G2	126	8,392	B1-U0-G2	94
P26-48L-700-WW-G2-x	48	700	3000	101	12,863	B4-U0-G2	127	12,923	B4-U0-G2	128	12,769	B3-U0-G2	126	9,548	B1-U0-G2	94
P26-64L-600-WW-G2-x	64	600	3000	114	14,940	B4-U0-G2	131	15,011	B4-U0-G2	131	14,832	B3-U0-G2	130	11,091	B1-U0-G2	97
P26-64L-700-WW-G2-x	64	700	3000	133	16,907	B4-U0-G2	127	16,988	B5-U0-G3	128	16,786	B3-U0-G2	126	12,552	B1-U0-G2	95
P26-64L-800-WW-G2-x	64	800	3000	153	18,949	B4-U0-G2	124	19,041	B5-U0-G3	125	18,814	B3-U0-G2	123	14,068	B1-U0-G3	92
P26-80L-700-WW-G2-x	80	700	3000	169	21,363	B5-U0-G3	127	21,468	B5-U0-G3	127	21,212	B3-U0-G2	126	15,861	B1-U0-G3	94
P26-80L-800-WW-G2-x	80	800	3000	192	23,463	B5-U0-G3	122	23,548	B5-U0-G3	123	23,267	B3-U0-G2	121	17,398	B1-U0-G3	91
P26-80L-900-WW-G2-x	80	900	3000	219	25,202	B5-U0-G3	115	25,282	B5-U0-G4	115	24,981	B3-U0-G2	114	18,679	B1-U0-G3	85

### LED Wattage and Lumen Values - 4000K

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
P26-48L-400-NW-G2-x	48	400	4000	60	8,798	B2-U0-G2	146	8,509	B2-U0-G2	142	8,827	B2-U0-G2	147
P26-48L-500-NW-G2-x	48	500	4000	74	10,755	B2-U0-G2	145	10,401	B2-U0-G2	140	10,789	B2-U0-G2	145
P26-48L-600-NW-G2-x	48	600	4000	89	12,574	B3-U0-G2	141	12,160	B2-U0-G2	137	12,614	B2-U0-G3	142
P26-48L-700-NW-G2-x	48	700	4000	101	14,305	B3-U0-G3	142	13,834	B2-U0-G3	137	14,351	B2-U0-G3	142
P26-64L-600-NW-G2-x	64	600	4000	114	16,617	B3-U0-G3	145	16,069	B2-U0-G3	141	16,670	B3-U0-G3	146
P26-64L-700-NW-G2-x	64	700	4000	133	18,806	B3-U0-G3	142	18,186	B3-U0-G3	137	18,866	B3-U0-G4	142
P26-64L-800-NW-G2-x	64	800	4000	153	21,078	B3-U0-G3	138	20,383	B3-U0-G4	134	21,145	B3-U0-G4	139
P26-80L-700-NW-G2-x	80	700	4000	169	23,764	B3-U0-G3	141	22,981	B3-U0-G4	136	23,840	B3-U0-G4	141
P26-80L-800-NW-G2-x	80	800	4000	192	26,067	B3-U0-G3	136	25,208	B3-U0-G4	132	26,150	B3-U0-G4	137
P26-80L-900-NW-G2-x	80	900	4000	219	27,986	B3-U0-G3	128	27,064	B3-U0-G4	123	28,076	B3-U0-G4	128

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown. Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm performance with a photometric layout.

NOTE: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.

# P26 PureForm LED medium

## Area light

### LED Wattage and Lumen Values - 4000K (continued)

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 5			Type 5W			Type AFR			Type BLC		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
P26-48L-400-NW-G2-x	48	400	4000	60	9068	B3-U0-G2	151	9114	B4-U0-G2	152	9006	B2-U0-G1	150	6735	B0-U0-G2	112
P26-48L-500-NW-G2-x	48	500	4000	74	11083	B4-U0-G2	149	11141	B4-U0-G2	150	11009	B3-U0-G2	148	8233	B1-U0-G2	111
P26-48L-600-NW-G2-x	48	600	4000	89	12954	B4-U0-G2	146	13025	B4-U0-G2	146	12871	B3-U0-G2	145	9626	B1-U0-G2	108
P26-48L-700-NW-G2-x	48	700	4000	101	14736	B4-U0-G2	146	14819	B4-U0-G2	147	14643	B3-U0-G2	145	10951	B1-U0-G2	108
P26-64L-600-NW-G2-x	64	600	4000	114	17116	B4-U0-G2	150	17214	B5-U0-G3	151	17009	B3-U0-G2	149	12721	B1-U0-G2	111
P26-64L-700-NW-G2-x	64	700	4000	133	19369	B5-U0-G3	146	19481	B5-U0-G3	147	19249	B3-U0-G2	145	14396	B1-U0-G3	108
P26-64L-800-NW-G2-x	64	800	4000	153	21708	B5-U0-G3	142	21834	B5-U0-G3	143	21575	B3-U0-G2	141	16136	B1-U0-G3	106
P26-80L-700-NW-G2-x	80	700	4000	169	24474	B5-U0-G3	145	24617	B5-U0-G4	146	24325	B3-U0-G2	144	18192	B1-U0-G3	108
P26-80L-800-NW-G2-x	80	800	4000	192	26880	B5-U0-G3	140	27003	B5-U0-G4	141	26682	B3-U0-G3	139	19955	B1-U0-G3	104
P26-80L-900-NW-G2-x	80	900	4000	219	28872	B5-U0-G3	132	28991	B5-U0-G4	132	28647	B4-U0-G3	131	21425	B1-U0-G4	98

### LED Wattage and Lumen Values - 5000K

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
P26-48L-400-CW-G2-x	48	400	5000	60	8,237	B2-U0-G2	137	7,965	B1-U0-G2	133	8,262	B2-U0-G2	138
P26-48L-500-CW-G2-x	48	500	5000	74	10,069	B2-U0-G2	135	9,736	B2-U0-G2	131	10,100	B2-U0-G2	136
P26-48L-600-CW-G2-x	48	600	5000	89	11,772	B3-U0-G2	132	11,383	B2-U0-G2	128	11,807	B2-U0-G2	133
P26-48L-700-CW-G2-x	48	700	5000	101	13,393	B3-U0-G2	133	12,950	B2-U0-G2	128	13,433	B2-U0-G3	133
P26-64L-600-CW-G2-x	64	600	5000	114	15,557	B3-U0-G3	136	15,042	B2-U0-G3	132	15,603	B2-U0-G3	137
P26-64L-700-CW-G2-x	64	700	5000	133	17,607	B3-U0-G3	133	17,024	B3-U0-G3	128	17,659	B3-U0-G3	133
P26-64L-800-CW-G2-x	64	800	5000	153	19,734	B3-U0-G3	129	19,080	B3-U0-G3	125	19,792	B3-U0-G4	130
P26-80L-700-CW-G2-x	80	700	5000	169	22,248	B3-U0-G3	132	21,512	B3-U0-G4	128	22,315	B3-U0-G4	132
P26-80L-800-CW-G2-x	80	800	5000	192	24,404	B3-U0-G3	127	23,597	B3-U0-G4	123	24,477	B3-U0-G4	128
P26-80L-900-CW-G2-x	80	900	5000	219	26,201	B3-U0-G3	119	25,335	B3-U0-G4	115	26,280	B3-U0-G4	120

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 5			Type 5W			Type AFR			Type BLC		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
P26-48L-400-CW-G2-x	48	400	5000	60	8,497	B3-U0-G2	141	8,532	B4-U0-G2	142	8,430	B2-U0-G1	140	6,304	B0-U0-G2	105
P26-48L-500-CW-G2-x	48	500	5000	74	10,384	B4-U0-G2	140	10,429	B4-U0-G2	140	10,305	B2-U0-G2	139	7,705	B1-U0-G2	104
P26-48L-600-CW-G2-x	48	600	5000	89	12,138	B4-U0-G2	136	12,193	B4-U0-G2	137	12,047	B3-U0-G2	135	9,008	B1-U0-G2	101
P26-48L-700-CW-G2-x	48	700	5000	101	13,808	B4-U0-G2	137	13,872	B4-U0-G2	137	13,706	B3-U0-G2	136	10,249	B1-U0-G2	101
P26-64L-600-CW-G2-x	64	600	5000	114	16,037	B4-U0-G2	140	16,113	B5-U0-G3	141	15,921	B3-U0-G2	139	11,905	B1-U0-G2	104
P26-64L-700-CW-G2-x	64	700	5000	133	18,149	B4-U0-G2	137	18,236	B5-U0-G3	137	18,018	B3-U0-G2	136	13,473	B1-U0-G3	101
P26-64L-800-CW-G2-x	64	800	5000	153	20,340	B5-U0-G3	133	20,439	B5-U0-G3	134	20,195	B3-U0-G2	132	15,101	B1-U0-G3	99
P26-80L-700-CW-G2-x	80	700	5000	169	22,932	B5-U0-G3	136	23,044	B5-U0-G3	137	22,769	B3-U0-G2	135	17,026	B1-U0-G3	101
P26-80L-800-CW-G2-x	80	800	5000	192	25,186	B5-U0-G3	131	25,277	B5-U0-G4	132	24,975	B3-U0-G2	130	18,675	B1-U0-G3	97
P26-80L-900-CW-G2-x	80	900	5000	219	27,053	B5-U0-G3	123	27,138	B5-U0-G4	124	26,815	B3-U0-G3	122	20,051	B1-U0-G3	91

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown. Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm performance with a photometric layout.

NOTE: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.

# P26 PureForm LED medium

## Area light

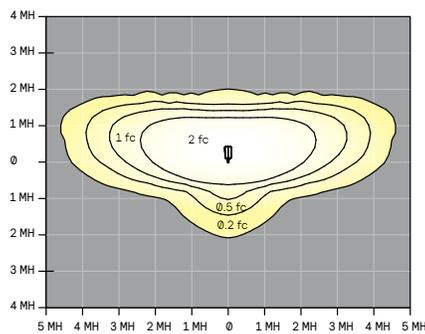
### Predicted Lumen Depreciation Data

Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions. L<sub>70</sub> is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L<sub>70</sub> hours limited to 6 times actual LED test hours

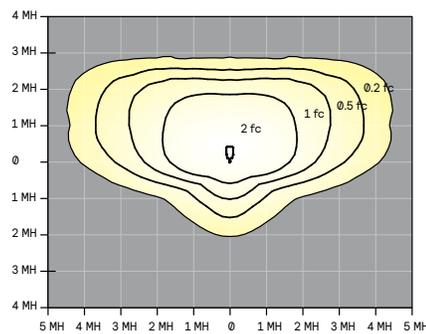
Ambient Temperature °C	Driver mA	Calculated L <sub>70</sub> Hours	L <sub>70</sub> per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	up to 900 mA	>100,000 hours	>60,000 hours	>88%

### Optical Distributions

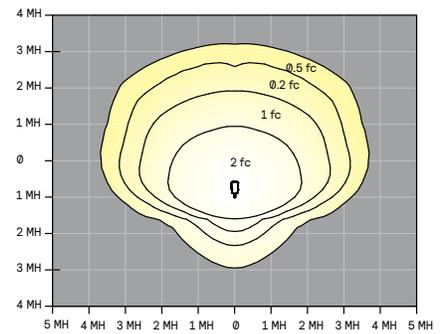
Based on 20' mounting height



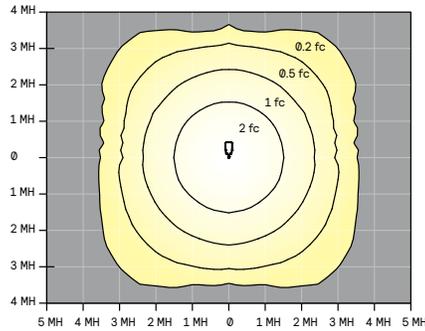
Type 2



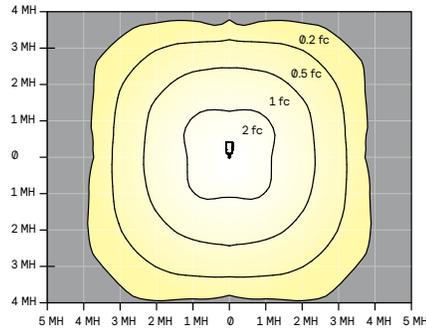
Type 3



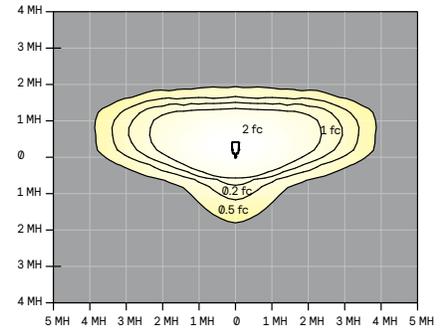
Type 4



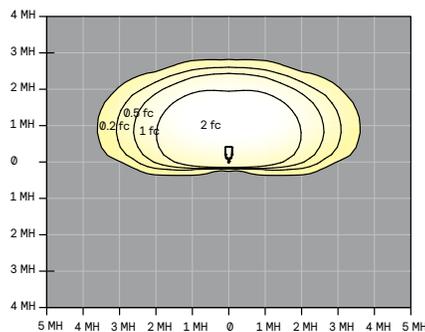
Type 5



Type 5W



AFR



BLC

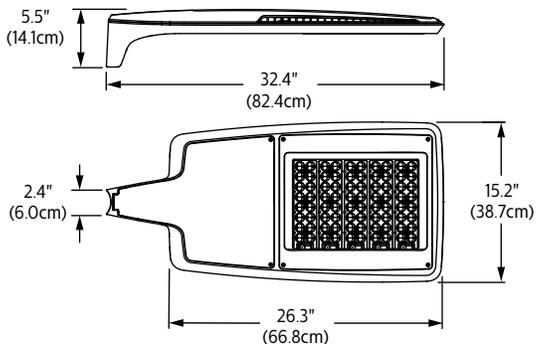
# P26 PureForm LED medium

## Area light

### Dimensions

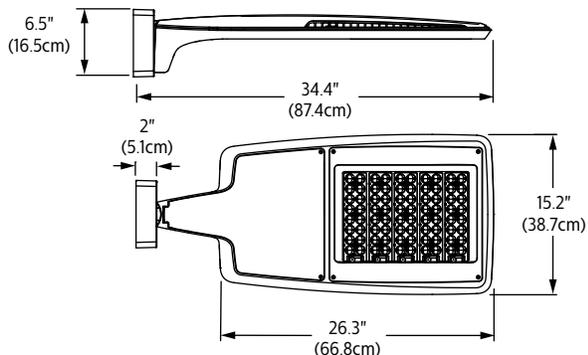
#### Standard Arm (AR)

Weight: 27 Lbs (12.4 Kg) EPA: 0.26ft<sup>2</sup> (.024m<sup>2</sup>)



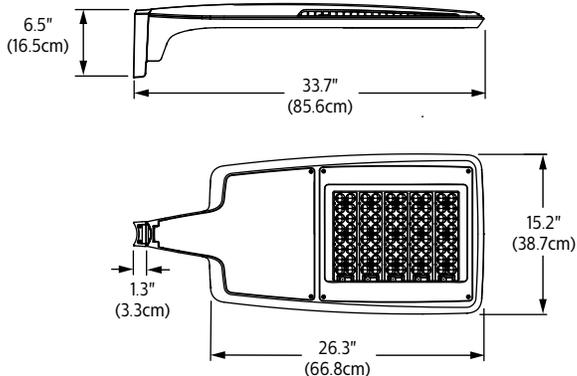
#### Wall (WS)

Weight: 30 Lbs. (13.7 Kg) EPA: 0.30ft<sup>2</sup> (.028m<sup>2</sup>)



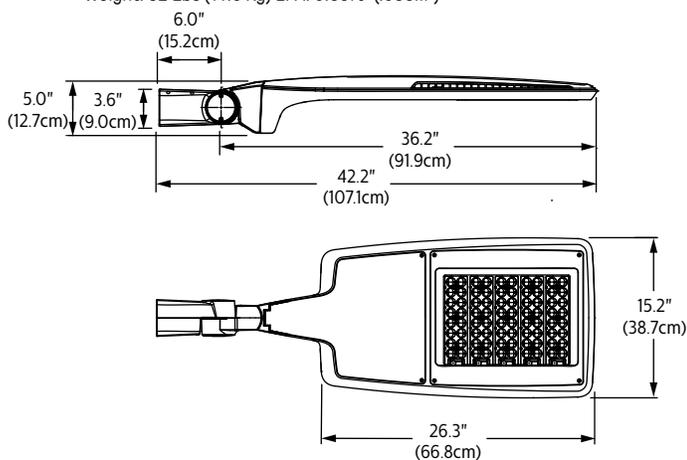
#### Retrofit Arm (RAM)

Weight: 28 Lbs (12.7 Kg) EPA: 0.28ft<sup>2</sup> (.026m<sup>2</sup>)

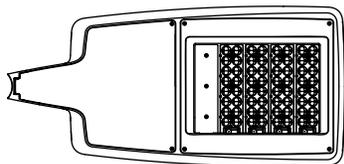


#### Slip fitter (SF)

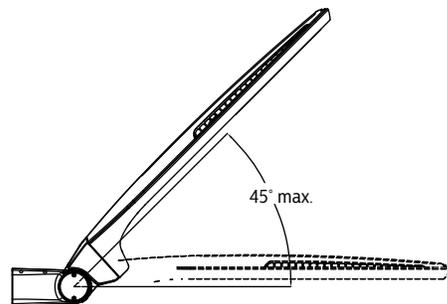
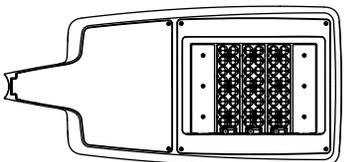
Weight: 32 Lbs (14.6 Kg) EPA: 0.38ft<sup>2</sup> (.035m<sup>2</sup>)



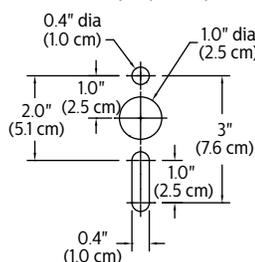
#### 4 module configuration



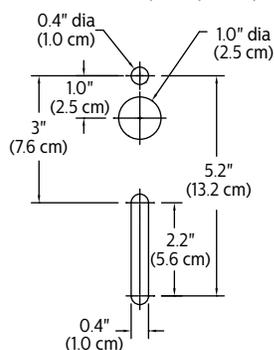
#### 3 module configuration



#### Standard Arm (AR) drill pattern



#### Retrofit arm (RAM) drill pattern



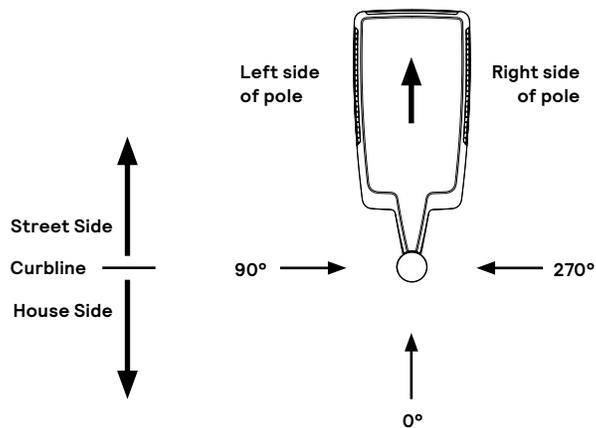
# P26 PureForm LED medium

## Area light

### Optical Orientation Information

#### Standard Optic Position

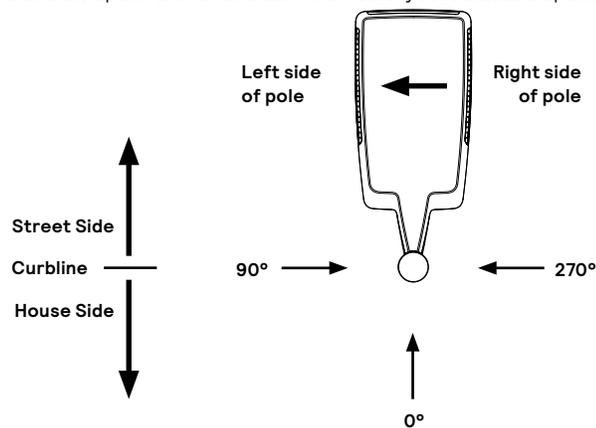
Luminaires ordered with asymmetric optical systems in the standard optic position will have the optical system oriented as shown below:



Note: The hand hole will normally be located on the pole at the 0° point.

#### Optic Rotated Left (90°) Optic Position

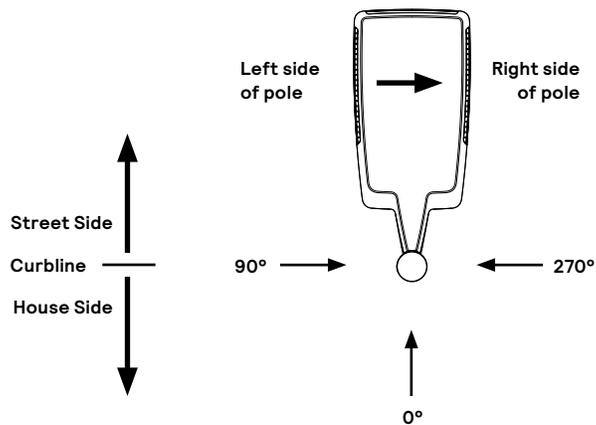
Luminaires ordered with optical systems in the Optic Rotated Left (90°) optic position will have the optical system oriented as shown below (Type 5 and 5W optics are not available with factory set rotatable optics):



Note: The hand hole will normally be located on the pole at the 0° point.

#### Optic Rotated Right (270°) Optic Position

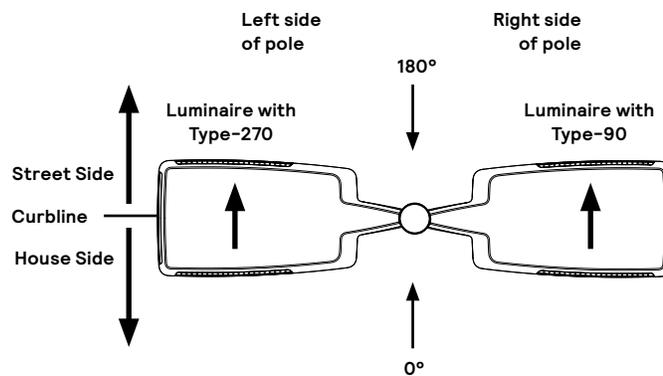
Luminaires ordered with optical systems in the Optic Rotated Right (270°) optic position will have the optical system oriented as shown below (Type 5 and 5W optics are not available with factory set rotatable optics):



Note: The hand hole will normally be located on the pole at the 0° point.

#### Twin Luminaire Assemblies with Type-90/Type-270 Rotated Optical Systems

Twin luminaire assemblies installed with rotated optical systems are an excellent way to direct light toward the interior of the site (Street Side) without additional equipment. It is important, however, that care be exercised to insure that luminaires are installed in the proper location.



Luminaires with Optic Rotated Right (270°) are installed on the LEFT Side of Pole

Luminaires with Optic Rotated Left (90°) are installed on the RIGHT Side of Pole

Note: The hand hole location will depend on the drilling configuration ordered for the pole.

# P26 PureForm LED medium

## Area light

### Specifications

#### Housing

Two-piece sealed enclosure with main part of the housing designed as the structural and heat sink frame enclosed by cover to give its unique form. It also includes integral arm and separate, self-retained hinged, one-piece die cast door frame. All die-cast parts made of low copper die cast aluminum alloy for a high resistance to corrosion. The sleek profile with optimized surface area allows housing to provide excellent convection heat transfer with minimum use of heat fins, giving the freedom to have a clean minimalist aesthetic design. Luminaire housing rated to IP66, tested in accordance to Section 9 of IEC 60598-1.

#### Vibration resistance

Luminaire is tested and rated 3G over 100,000 cycles conforming to standards set forth by ANSI C136.31-2010. Testing includes vibration in three axes, all performed on the same luminaire.

#### Light engine

Light engine comprises of a module of 16-LED aluminum metal clad board fully sealed with optics offered in multiples of 3, 4 and 5 modules or 48, 64 and 80 LEDs. Module is RoHS compliant. Color temperatures: 3000K +/- 125K, 4000K, 5000K +/- 200K. Minimum CRI of 70. Also available in 2700K, 3500K, and Direct Amber with extended lead times. Direct Amber LED is narrow spectrum with dominant wavelength at 596 nm (peak wavelength at 601 nm). Contact factory for details. LED light engine is rated IP66 in accordance to Section 9 of IEC 60598-1.

#### Energy saving benefits

System efficacy up to 150 lms/W with significant energy savings over Pulse Start Metal Halide luminaires. Optional control options provide added energy savings during unoccupied periods.

#### Optical systems

Type 2, 3, 4, 5, 5W, and AFR distributions available. Internal Shield option mounts to LED optics and is available with Type 2, 3, 4, and AFR distributions including a dedicated BLC optic to provide the best backlight control possible for those stringent requirements around property lines. Types 2, 3, 4, AFR, and BLC when specified and used as rotated, are factory set only. Performance tested per LM-79 and TM-15 (IESNA) certifying its photometric performance. Luminaire designed with 0% uplight (UO per IESNA TM-15).

#### Mounting

Standard luminaire arm mounts to 4" O.D. round poles. Can also be used with 5" O.D. poles. Square pole adapter included with every luminaire. Round Pole Adapter (RPA) required for 3-3.9" poles. PureForm features a retrofit arm kit. When specified with the retrofit arm (RAM) option, PureForm seamlessly simplifies site conversions to LED by eliminating the need for additional pole drilling on most existing poles. RAM will be boxed separately. Also optional are slipfitter and wall mounting accessories. Note that only fixed mounts (AR, RAM, WS) are required to meet IDA compliance. SF mounting will not meet IDA.

#### Control options

**0-10V dimming (DD):** Access to 0-10V dimming leads supplied through back of luminaire (for secondary dimming controls by others). Cannot be used with other control options.

**Dual Circuit Control (DCC):** Luminaire equipped with the ability to have two separate circuits controlling drivers and light engines independently. Permits separate switching of separate modules controlled by use of two sets of leads, one for each circuit. Not recommended to be used with other control options, motion response, or photocells.

**Field Adjustable Wattage Selector (FAWS):** Luminaire equipped with the ability to manually adjust the wattage in the field to reduce total luminaire lumen output and light levels. Comes pre-set to the highest position at the lumen output selected. Use chart below to estimate reduction in lumen output desired. Cannot be used with other control options or motion response.

FAWS Position	Percent of Typical Lumen Output
1	25%
2	50%
3	55%
4	65%
5	75%
6	80%
7	85%
8	90%
9	95%
10	100%

**Note:** Typical value accuracy +/- 5%

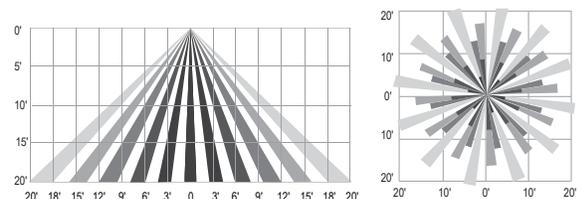
**Automatic Profile Dimming (CS/CM/CE/CA):** Standard dimming profiles provide flexibility towards energy savings goals while optimizing light levels during specific dark hours. Dimming profiles include two dimming settings including dim to 30% or 50% of the total lumen output. When used in combination with not programmed motion response it overrides the controller's schedule when motion is detected. After 5 minutes with no motion, it will return to the automatic dimming profile schedule. Automatic dimming profile scheduled with the following settings:

- **CS50/CS30:** Security for 7 hours night duration (Ex., 11 PM - 6 AM)
- **CM50/CM30:** Median for 8 hours night duration (Ex., 10 PM - 6 AM)

All above profiles are calculated from mid point of the night. Dimming is set for 6 hours after the mid point and 1 or 2 hours before depending of the duration of dimming. Cannot be used with other dimming control options.

**Wireless system (LLC):** Optional wireless controller integral to luminaire ready to be connected to a Limelight system (sold by others). The system allows you to wirelessly manage the entire site, independent lighting groups or individual luminaires while on-site or remotely. Based on a high-density mesh network with an easy to use web-based portal, you can conveniently access, monitor and manage your lighting network remotely. Wireless controls can be combined with site and area, pedestrian, and parking garage luminaires as well, for a completely connected outdoor solution. Equipped with motion response with #3 lens for 8-25' mounting heights.

#### LLC-IMRI3 Luminaire with #3 lens



#### Motion response options

**Bi-Level Infrared Motion Response (BL-IMRI):** Motion Response module is mounted integral to luminaire factory pre-programmed to 50% dimming when not ordered with other control options. BL-IMRI is set/operates in the following fashion: The motion sensor is set to a constant 50%. When motion is detected by the PIR sensor, the luminaire returns to full power/light output. Dimming on low is factory set to 50% with 5 minutes default in "full power" prior to dimming back to low. When no motion is detected for 5 minutes, the motion response system reduces the wattage by 50%, to 50% of the normal constant wattage reducing the light level. Other dimming settings can be provided if different dimming levels are required. This can also be done with FSIR-100 Wireless Remote Programming Tool (contact Technical Support for details).

# P26 PureForm LED medium

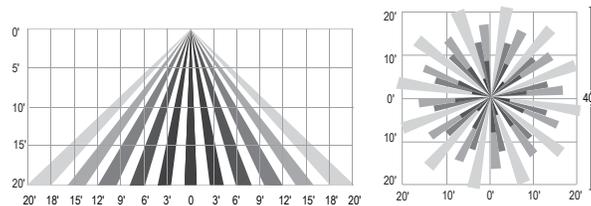
## Area light

### Specifications (cont'd)

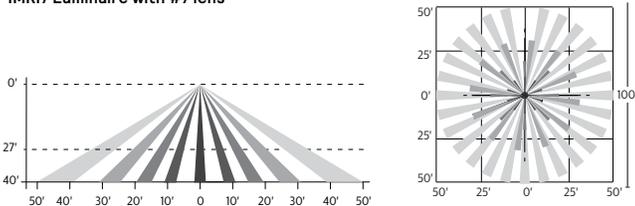
**Infrared Motion Response with Other Controls:** When used in combination with other controls (Automatic Dimming Profile), motion response device will simply override controller's schedule with the added benefits of a combined dimming profile and sensor detection. In this configuration, the motion response device cannot be re-programmed with FSIR-100 Wireless Remote Programming Tool. The profile can only be re-programmed via the controller.

**Infrared Motion Response Lenses (IMRI3/IMRI7):** Infrared Motion Response Integral module is available with two different sensor lens types to accommodate various mounting heights and occupancy detection ranges. Lens #3 (IMRI3) is designed for mounting heights up to 20' with a 40' diameter coverage area. Lens #7 is designed for higher mounting heights up to 40' with larger coverage areas up to 100' diameter coverage area. See charts for approximate detection patterns:

IMRI3 Luminaire with #3 lens



IMRI7 Luminaire with #7 lens



### Electrical

**Twist-Lock Receptacle (TLRD5/TLRD7/ TLRPC):** Twist Lock Receptacle with 5 pins enabling dimming or with 7 pins with additional functionality (by others) can be used with a twistlock photoelectric cell or a shorting cap. Dimming Receptacle Type B (5-pin) and Type D-24 (7-pin) in accordance to ANSI C136.41. Can be used with third-party control system. Receptacle located on top of luminaire housing. When specifying receptacle with twistlock photoelectric cell, voltage must be specified. When ordering Twist-lock receptacle (TLRD5 or TLRD7), photocell or shorting cap is not included. TLRPC is shipped standard with 5 pin.

### Buy American Act of 1933 (BAA):

This product is manufactured in one of our US factories and, as of the date of this document, this product was considered a commercially available off-the-shelf (COTS) item meeting the requirements of the BAA. This BAA designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. Prior to ordering, please visit [www.signify.com/baa](http://www.signify.com/baa) to view a current list of BAA-compliant products to confirm this product's current compliance.

**Driver:** Driver efficiency (>90% standard). 120-480V available (restrictions apply). Open/short circuit protection. Optional 0-10V dimming to 10% power. RoHS compliant.

**Button Photocontrol (PCB):** Button style design for internal luminaire mounting applications. The photocontrol is constructed of a high impact UV stabilized polycarbonate housing. Rated voltage of 120V or 208-277V with a load rating of 1000 VA. The photocell will turn on with 1-4Fc of ambient light.

**Surge protection (SP1/SP2):** Surge protection device tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line-Ground, Line-Neutral and Neutral-Ground, and in accordance with DOE MSSLC Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High test level 10kV/10kA. 20kV / 10kA surge protection device that provides extra protection beyond the SP1 10kV/10kA level

### Listings

UL/cUL wet location listed to the UL 1598 standard, suitable for use in ambient temperatures from -40° to 40°C (-40° to 104°F). Most PureForm P26 configurations are qualified under Premium DesignLights Consortium® category. Consult DLC Qualified Products list to confirm your specific luminaire selection is approved. CCTs 3000K and warmer are Dark Sky Approved.

### Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. The surface treatment achieves a minimum of 1000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard. Standard colors include bronze (BZ), black (BK), white (WH), dark gray (DGY), and medium gray (MGY). Consult factory for specs on optional or custom colors.

### Warranty

PureForm luminaires feature a 5-year limited warranty. See [signify.com/warranties](http://signify.com/warranties) for complete details and exclusions.





Gardco PureForm LED post top features a sleek, low profile design. Comfort optics are designed to enhance visual comfort by reducing glare. Type 1, 2, 3, and 5 optical distributions are available with lumen output up to 9000 lumens. A full range of control options provides additional energy savings. Optional integral emergency battery backup is available for path-of-egress illumination.

Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

### Ordering guide

example: PPT-196L-450-NW-G2-T3-1-UNV-DGY

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounting	Distribution	Emergency	Voltage
<b>PPT</b>							
<b>PPT</b> PureForm post top, comfort optics	<b>196L</b> 196 LEDs	<b>450</b> 450mA <b>650</b> 650mA <b>1150</b> 1150mA <sup>1</sup> <b>1675</b> 1675mA <sup>1</sup> <b>2100</b> 2100mA <sup>1,2</sup>	<b>WW-G2</b> Warm White 3000K, 80CRI Generation 2 <b>NW-G2</b> Neutral White 4000K, 80CRI Generation 2 <b>CW-G2</b> Cool White 5000K, 70CRI Generation 2 <b>WY-G2</b> Warm Yellow 2700K, 80CRI Generation 2 <sup>3</sup> <b>BW-G2</b> Balanced White 3500K (80CRI) Generation 2 <sup>3</sup>	<b>T3</b> Mounts to a 3" x 4" Tenon (standard) <b>T2</b> Mounts to a 2-3/8" x 4" Tenon (must be ordered and shipped as a separate accessory)	<b>1</b> Comfort Type 1 <b>2</b> Comfort Type 2 <b>3</b> Comfort Type 3 <b>5</b> Comfort Type 5	Leave blank for no battery <b>EBPC</b> Emergency battery pack cold weather <sup>2,4,5,6,7</sup> <b>EBP</b> Emergency battery pack <sup>14,5,7</sup>	<b>120</b> 120V <b>208</b> 208V <b>240</b> 240V <b>277</b> 277V <b>347</b> 347V <b>480</b> 480V <b>UNV</b> 120-277V (50/60Hz) <b>HVU</b> 347-480V (50/60Hz)
	<b>140L</b> 140 LEDs		<b>AM-G2</b> Amber Generation 2 <sup>3,11</sup>				

Options				
Dimming controls	Motion sensing	Photo-sensing	Electrical/Shield	Finish
<b>DD</b> 0-10V External dimming (by others) <sup>4</sup> <b>FAWS</b> Field Adjustable Wattage Selector <sup>4,5</sup> <b>LLC</b> Integral wireless module <sup>4,6,7,13</sup> <b>BL</b> Bi-level functionality <sup>4,13</sup>  <b>DynaDimmer:</b> Automatic Profile Dimming <sup>4,7</sup> <b>CS50</b> Security 50% Dimming, 7 hours <b>CM50</b> Median 50% Dimming, 8 hours <b>CS30</b> Security 30% Dimming, 7 hours <b>CM30</b> Median 30% Dimming, 8 hours	<b>IMRI3</b> Integral with #3 lens <sup>12</sup>	<b>PCB</b> Photocontrol Button <sup>7,8</sup> <b>TLRD5</b> Twist Lock Receptacle 5 Pin <sup>9,14</sup> <b>TLRD7</b> Twist Lock Receptacle 7 Pin <sup>9,14</sup> <b>TLRPC</b> Twist Lock Receptacle w/Photocell <sup>9,10,14</sup>	<b>Fusing</b> <b>F1</b> Single (120, 277, 347VAC) <sup>8</sup> <b>F2</b> Double (208, 240, 480VAC) <sup>8</sup> <b>F3</b> Canadian Double Pull (208, 240, 480VAC) <sup>8</sup>  <b>Surge Protection</b> (10kA standard) <b>SP2</b> Increased 20kA <b>EHS</b> External house side shield (factory installed)	<b>Textured</b> <b>BK</b> Black <b>WH</b> White <b>BZ</b> Bronze <b>DGY</b> Dark Gray <b>MGY</b> Medium Gray  <b>Customer specified</b> <b>RAL</b> Specify optional color or RAL (ex: RAL7024) <b>CC</b> Custom color (Must supply color chip for required factory quote)

- 1150, 1675, and 2100mA not available with emergency battery backup (EBP).
- 2100mA not available with emergency battery backup cold weather (EBPC).
- Extended lead times apply. Contact factory for details.
- Not available with other control options.
- Not available with motion sensor.
- Not available with photocontrol.
- Not available in 347 or 480V.
- Must specify input voltage.
- Dimming will not be connected to NEMA receptacle if ordering with other control options.
- Not available in 480V.
- Not available in 2100mA.
- Not available with DD and FAWS dimming control options.
- Must specify a motion sensor lens.
- Cannot be combined with HVU and BL-IMRI3.



# PPT PureForm LED post top

## with comfort optics

PureForm Accessories<sup>1</sup> (order separately)

PPT-T2

FSIR-100

Post top tenon adapter for 2 3/8" x 4"

BL Optional Remote Programming Tool

1. Consult Signify to confirm whether specific accessories are BAA-compliant.

### LED Wattage and Lumen Values – 5000K

Ordering Code	LED QTY	System Current (mA)	Color Temp	Avg System Wattage (W)	Type 1			Type 2			Type 3			Type 5		
					Lumen Output	BUG Rating	Efficacy (Lm/W)	Lumen Output	BUG Rating	Efficacy (Lm/W)	Lumen Output	BUG Rating	Efficacy (Lm/W)	Lumen Output	BUG Rating	Efficacy (Lm/W)
PPT-196L-450-CW-G2-x-UNV	196	450	5000	21	2090	B1-U0-G1	100	2103	B1-U0-G1	101	2411	B1-U0-G1	115	2323	B1-U0-G1	111
PPT-196L-650-CW-G2-x-UNV	196	650	5000	30	3012	B2-U0-G2	100	3031	B1-U0-G1	101	3474	B2-U0-G2	116	3347	B2-U0-G1	112
PPT-196L-1150-CW-G2-x-UNV	196	1150	5000	51	5148	B3-U0-G3	101	5180	B2-U0-G2	102	5938	B2-U0-G2	116	5721	B3-U0-G2	112
PPT-196L-1675-CW-G2-x-UNV	196	1675	5000	74	7185	B3-U0-G3	97	7230	B3-U0-G3	98	8288	B3-U0-G3	112	7984	B3-U0-G2	108
PPT-196L-2100-CW-G2-x-UNV	196	2100	5000	93	8598	B3-U0-G3	92	8652	B3-U0-G3	93	9918	B3-U0-G3	107	9554	B3-U0-G2	103

### LED Wattage and Lumen Values – 4000K

Ordering Code	LED QTY	System Current (mA)	Color Temp	Avg System Wattage (W)	Type 1			Type 2			Type 3			Type 5		
					Lumen Output	BUG Rating	Efficacy (Lm/W)	Lumen Output	BUG Rating	Efficacy (Lm/W)	Lumen Output	BUG Rating	Efficacy (Lm/W)	Lumen Output	BUG Rating	Efficacy (Lm/W)
PPT-196L-450-NW-G2-x-UNV	196	450	4000	21	1991	B1-U0-G1	95	2003	B1-U0-G1	96	2296	B1-U0-G1	110	2212	B1-U0-G1	106
PPT-196L-650-NW-G2-x-UNV	196	650	4000	30	2868	B2-U0-G2	96	2886	B1-U0-G1	96	3309	B2-U0-G2	110	3187	B2-U0-G1	106
PPT-196L-1150-NW-G2-x-UNV	196	1150	4000	51	4903	B3-U0-G3	96	4933	B2-U0-G2	97	5656	B2-U0-G2	111	5448	B3-U0-G2	107
PPT-196L-1675-NW-G2-x-UNV	196	1675	4000	74	6843	B3-U0-G3	93	6886	B3-U0-G3	93	7894	B3-U0-G3	107	7604	B3-U0-G2	103
PPT-196L-2100-NW-G2-x-UNV	196	2100	4000	93	8188	B3-U0-G3	88	8240	B3-U0-G3	89	9446	B3-U0-G3	101	9099	B3-U0-G2	98

### LED Wattage and Lumen Values –3000K

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 1			Type 2			Type 3			Type 5		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
PPT-196L-450-WW-G2-x-UNV	196	450	3000	21	1914	B1-U0-G1	92	1926	B1-U0-G1	92	2208	B1-U0-G1	106	2127	B1-U0-G1	102
PPT-196L-650-WW-G2-x-UNV	196	650	3000	30	2758	B2-U0-G2	92	2775	B1-U0-G1	93	3182	B2-U0-G2	106	3065	B2-U0-G1	102
PPT-196L-1150-WW-G2-x-UNV	196	1150	3000	51	4714	B3-U0-G3	92	4744	B2-U0-G2	93	5438	B2-U0-G2	107	5239	B3-U0-G2	103
PPT-196L-1675-WW-G2-x-UNV	196	1675	3000	74	6579	B3-U0-G3	89	6621	B3-U0-G3	90	7590	B3-U0-G3	103	7312	B3-U0-G2	99
PPT-196L-2100-WW-G2-x-UNV	196	2100	3000	93	7873	B3-U0-G3	85	7923	B3-U0-G3	85	9083	B3-U0-G3	98	8749	B3-U0-G2	94

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown. Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm performance with a photometric layout.

NOTE: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.

### LED Wattage and lumen values (Emergency Mode)

Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Temp. Range (°C)	Lumen Outputs									
					Avg. System Watts		Type 1		Type 2		Type 3		Type 5	
					Normal Mode	Emergency Mode	Normal Mode	Emergency Mode	Normal Mode	Emergency Mode	Normal Mode	Emergency Mode	Normal Mode	Emergency Mode
PPT-196L-450-NW-G2-x-EBP-UNV	196	450	4000	0 to 40	22	10	1971	1526	1951	1510	2421	1747	2254	1744
PPT-196L-650-NW-G2-x-EBP-UNV	196	650	4000	0 to 40	30	10	2636	1526	2609	1510	3237	1747	3014	1744
PPT-196L-450-NW-G2-x-EBPC-UNV	196	450	4000	-20 to 40	22	18	1971	2178	1951	2155	2421	2493	2254	2490
PPT-196L-650-NW-G2-x-EBPC-UNV	196	650	4000	-20 to 40	30	18	2636	2178	2609	2155	3237	2493	3014	2490
PPT-196L-1150-NW-G2-x-EBPC-UNV	196	1150	4000	-20 to 40	52	18	4736	2178	4686	2155	5816	2493	5415	2490
PPT-196L-1675-NW-G2-x-EBPC-UNV	196	1675	4000	-20 to 40	75	18	6574	2178	6506	2155	8074	2493	7517	2490

For emergency EBPC and EBP option, published values are based on initial lumens.

### Predicted Lumen Depreciation Data

Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions. L70 is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L70 hours limited to 6 times actual LED test hours

Ambient Temperature °C	Driver mA	Calculated L70 Hours	L70 per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	up to 2100mA	>100,000 hours	>60,000 hours	>84%

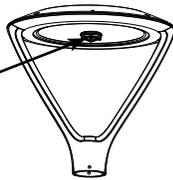
# PPT PureForm LED post top with comfort optics

## Dimensions – Post Top Luminaire

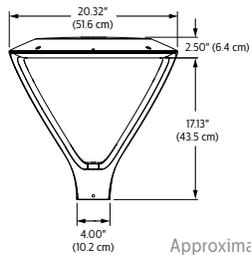
### Effective Projected Area ft<sup>2</sup> / m<sup>2</sup>

Type	Single
PPT	0.35 ft <sup>2</sup> /0.032m <sup>2</sup>

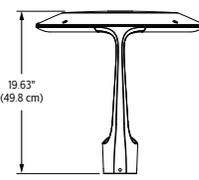
Approximate Motion Sensor Placement



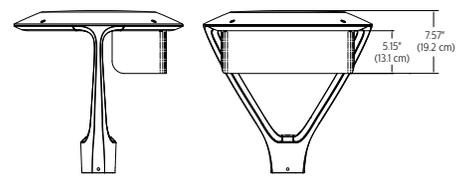
### Front View



### Side View



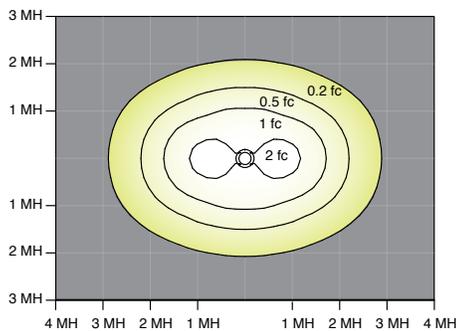
### Luminaire with EHS Shield



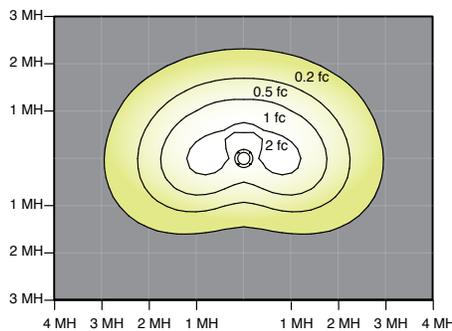
Approximate Luminaire Weight:  
Standard: 20 lbs (9.1 kg)  
With battery pack: 26 lbs (11.8 kg)

## Optical Distributions

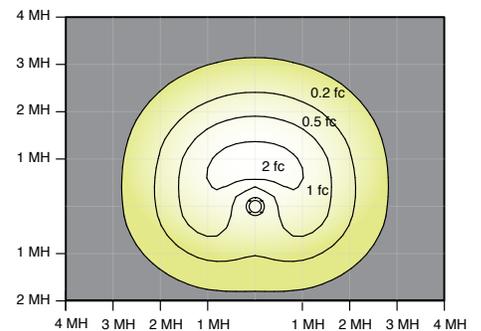
Based on configuration PPT-196L-2100-NW-G2 mounted at 20ft.



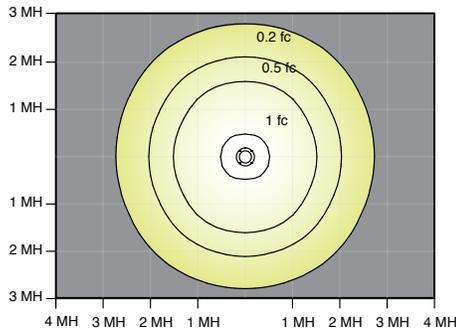
Comfort Type 1



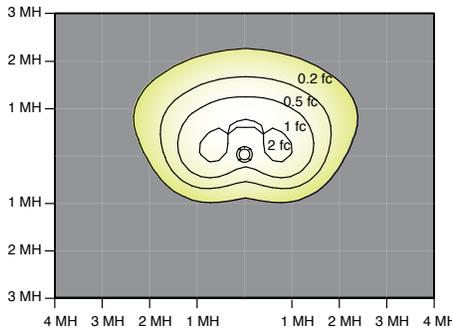
Comfort Type 2



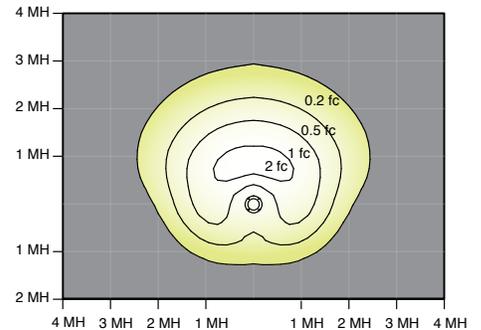
Comfort Type 3



Comfort Type 5



Comfort Type 2 with EHS



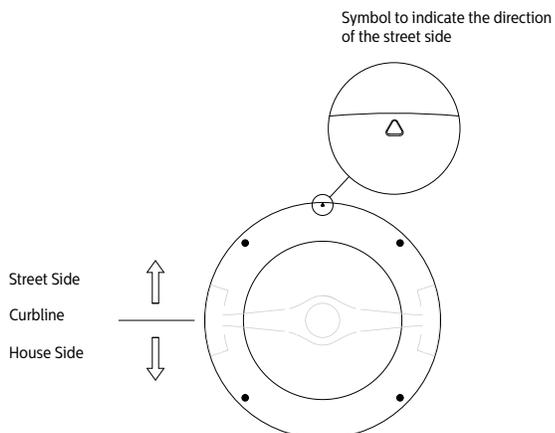
Comfort Type 3 with EHS

## Asymmetric Optical Orientation Information

### Standard Optic Position

#### Aimed Between The Yoke Supports

Luminaires ordered with asymmetric optical systems in the standard optic position will have the optical system oriented as shown below:



# PPT PureForm LED post top

## with comfort optics

### Specifications

#### Housing

Two-piece sealed enclosure with main part of the housing designed as the structural and heat sink frame, enclosed by cover to give its unique form. It also includes yoke arm with arm covers. All die-cast parts are made of low-copper, die-cast aluminum alloy for a high resistance to corrosion. The sleek profile with optimized surface area allows housing to provide excellent convection heat transfer with minimum use of heat fins, giving the freedom to have a clean minimalist aesthetic design. Luminaire housing rated to IP66, tested in accordance to Section 9 of IEC 60598-1.

#### Vibration resistance

Luminaire is tested and rated 3G over 100,000 cycles conforming to standards set forth by ANSI C136.31-2010. Testing includes vibration to 3G acceleration in three axes, all performed on the same luminaire.

#### Light engine

Light guide technology provides low-glare, uniform illumination. Composed of LEDs strategically positioned on the edge of the optical plate. Light engine luminous opening size optimized to best achieve a balance between lumen output and optical performance with the need to provide visual comfort. Light engine frame ensures contact with housing to provide heat conduction and sealing against the elements. Light engine is RoHS compliant. Standard color temperatures: 3000K +/- 130K, 4000K +/- 130K, 5000K +/- 225K. Minimum CRI of 70. Also available in 2700K and Amber (Dominant wavelength 589nm, peak wavelength 633nm, and minimum wavelength 486nm) with extended lead times. Contact factory for details.

#### Energy saving benefits

System efficacy up to 111 lms/W with significant energy savings over Pulse Start Metal Halide luminaires. Optional control options provide added energy savings during unoccupied periods.

#### Optical systems

The advanced LED comfort optical system provides Types 1, 2, 3, and 5. Composed of high performance UV-stabilized optical grade lens with molded micro-optics to achieve desired distribution optimized to get an exceptional lighting uniformity. Performance tested per LM-79 and TM-15 (IESNA) certifying its photometric performance. Luminaire designed with 0% uplight (U0 per IESNA TM-15).

#### Mounting

PureForm Post Top mounts standard to a 3" x 4" Tenon, but can also be mounted to a 2-3/8" x 4" Tenon if a separate sleeve is ordered as an accessory.

#### Control options

**0-10V dimming (DD):** Access to 0-10V dimming leads supplied through the yoke of the luminaire (for secondary dimming controls by others). Cannot be used with other control options.

**Field Adjustable Wattage Selector (FAWS):** Luminaire equipped with the ability to manually adjust the wattage in the field to reduce total luminaire lumen output and light levels. Comes pre-set to the highest position at the lumen output selected. Use chart below to estimate reduction in lumen output desired. Cannot be used with other control options or motion response.

FAWS Position	Percent of Typical Lumen Output
1	25%
2	50%
3	55%
4	65%
5	75%
6	80%
7	85%
8	90%
9	95%
10	100%

**Note:** Typical value accuracy +/- 5%

**Automatic Profile Dimming (CS/CM):** Standard dimming profiles provide flexibility towards energy savings goals while optimizing light levels during specific dark hours. Dimming profiles include two dimming settings including dim to 30% or 50% of the total lumen output. When used in combination with not programmed motion response it overrides the controller's schedule when motion is detected. After 5 minutes with no motion, it will return to the automatic dimming profile schedule. Automatic dimming profile scheduled with the following settings:

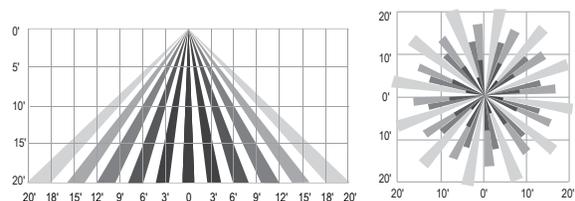
- **CS50/CS30:** Security for 7 hours night duration (Ex., 11 PM - 6 AM)
- **CM50/CM30:** Median for 8 hours night duration (Ex., 10 PM - 6 AM)

All above profiles are calculated from mid point of the night. Dimming is set for 6 hours after the mid point and 2, or 3 hours before depending of the duration of dimming. Cannot be used with other dimming control options.

**Emergency Battery Backup (EBP/EBPC):** Emergency battery packs included integral to the luminaire, allowing for a consistent look between emergency and non-emergency luminaires. EBP is suitable for use in ambient temperature conditions from 0°C (32°F) to 40°C (104°F) available on 450mA and 650mA only. EBPC cold weather rated down to -20°C (-4°F) available on all wattage except the 2100mA configuration. Both systems are designed to have a secondary driver with relay to immediately detect AC power loss to power luminaire for a minimum of 90 minutes from the time power is lost. Available with 120-277V, or 'UNV' only.

**Wireless system (LLC):** Optional wireless controller integral to luminaire ready to be connected to a Limelight system (sold by others). The system allows you to wirelessly manage the entire site, independent lighting groups or individual luminaires while on-site or remotely. Based on a high-density mesh network with an easy to use web-based portal, you can conveniently access, monitor and manage your lighting network remotely. Wireless controls can be combined with site and area, pedestrian, and parking garage luminaires as well, for a completely connected outdoor solution. Equipped with motion response with #3 lens (LLC3-IMR13) for 8-25' mounting heights. Also available with remote pod accessory where pod is mounted separate from luminaire to pole or wall.

#### LLC-IMR13 Luminaire with #3 lens



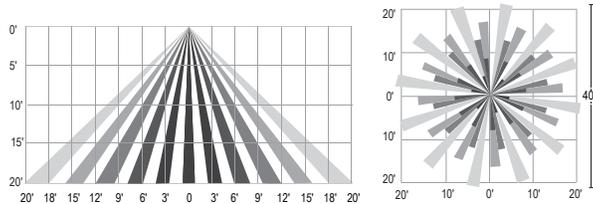
#### Motion response options

**Bi-Level Infrared Motion Response (BL-IMR13):** Motion Response module is mounted integral to luminaire factory pre-programmed to 50% dimming when not ordered with other control options. BL-IMR13 is set/operates in the following fashion: The motion sensor is set to a constant 50%. When motion is detected by the PIR sensor, the luminaire returns to full power/light output. Dimming on low is factory set to 50% with 5 minutes default in "full power" prior to dimming back to low. When no motion is detected for 5 minutes, the motion response system reduces the wattage by 50%, to 50% of the normal constant wattage reducing the light level. Other dimming settings can be provided if different dimming levels are required. This can also be done with FSIR-100 Wireless Remote Programming Tool (contact Technical Support for details).

# PPT PureForm LED post top with comfort optics

**Infrared Motion Response with Other Controls (IMRI3):** When used in combination with other controls (Automatic Dimming Profile), motion response device will simply override controller's schedule with the added benefits of a combined dimming profile and sensor detection. In this configuration, the motion response device cannot be re-programmed with FSIR-100 Wireless Remote Programming Tool. The profile can only be re-programmed via the controller.

**Infrared Motion Response Lenses (IMRI3):** Infrared Motion Response Integral module is available lens #3 (IMRI3), which is designed for mounting heights up to 20' with a 40' diameter coverage area. See chart for approximate detection patterns:



## Electrical

**Twist-Lock Receptacle (TLRD5/TLRD7/ TLRPC):** Twist Lock Receptacle with 5 pins enabling dimming or with 7 pins with additional functionality (by others) can be used with a twistlock photoelectric cell or a shorting cap. Dimming Receptacle Type B (5-pin) and Type D-24 (7-pin) in accordance to ANSI C136.41. Can be used with third-party control system. Receptacle located on top of luminaire housing. When specifying receptacle with twistlock photoelectric cell, voltage must be specified. When ordering Twist-lock receptacle (TLRD5 or TLRD7), photocell or shorting cap is not included.

**Driver:** Driver efficiency (>90% standard). 120-480V available (restrictions apply). Open/short circuit protection. Optional 0-10V dimming to 10% power. RoHS compliant.

**Button Photocontrol (PCB):** Button style design for internal luminaires mounting applications. The photocontrol is constructed of a high impact UV stabilized polycarbonate housing. Rated voltage of 120V or 208-277V with a load rating of 1000 VA. The photocell will turn on with 1-4Fc of ambient light.

**Surge protection (SP1/SP2):** Surge protection device tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line-Ground, Line-Neutral and Neutral-Ground, and in accordance with DOE MSSLC Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High test level 10kV/10kA. 20kV / 10kA surge protection device that provides extra protection beyond the SP1 10kV/10kA level.

## Buy American Act of 1933 (BAA):

This product is manufactured in one of our US factories and, as of the date of this document, this product was considered a commercially available off-the-shelf (COTS) item meeting the requirements of the BAA. This BAA designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. Prior to ordering, please visit [www.signify.com/baa](http://www.signify.com/baa) to view a current list of BAA-compliant products to confirm this product's current compliance.

## Listings

UL/cUL wet location listed to the UL 1598 standard, suitable for use in ambient temperatures from -40° to 40°C (-40° to 104°F). Most PureForm PPT comfort configurations are qualified under Standard DesignLights Consortium® category. Consult DLC Qualified Products list to confirm your specific luminaire selection is approved. CCTs 3000K and warmer are Dark Sky Approved.

## Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidic isocyanurate (TGIC) textured polyester powdercoat finish. The surface treatment achieves a minimum of 1000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard. Standard colors include bronze (BZ), black (BK), white (WH), dark gray (DGY), and medium gray (MGY). Consult factory for specs on optional or custom colors.

## Warranty

PureForm luminaires feature a 5-year limited warranty. See [signify.com/warranties](http://signify.com/warranties) for complete details and exclusions.



© 2022 Signify Holding. All rights reserved. The information provided herein is subject to change, without notice. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify.

Signify North America Corporation  
400 Crossing Blvd, Suite 600  
Bridgewater, NJ 08807  
Telephone 855-486-2216

Signify Canada Ltd.  
281 Hillmount Road,  
Markham, ON, Canada L6C 2S3  
Telephone 800-668-9008

All trademarks are owned by Signify Holding or their respective owners.



**Gardco PureForm LED wall sconce PWS** with precision optics offers a sleek, low profile design that will complement a range of architectural styles. PureForm wall sconce provides up to 21,800 lumens to accommodate multiple mounting heights, and is available with Type 2, 3, 4, as well as our back light control optics. A full range of control options is available for additional energy savings. Optional emergency battery backup option is available for path-of-egress and is integral to the luminaire.

Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

Ordering guide

example: **PWS-48L-500-NW-G2-2-UNV-DGY**

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Distribution	Emergency	Voltage	Options				Finish	
							Dimming controls	Motion-sensing lens	Photo-sensing	Electrical & Shield		
<b>PWS</b>												
PureForm wall sconce	<b>48L</b> 48 LEDs	<b>300</b> 300mA <sup>1</sup>	<b>WW-G2</b> Warm White 3000K, 70 CRI Generation 2	<b>2</b> Type 2	<b>EBPC</b> Emergency Battery Pack Cold Weather 1,3,10	<b>UNV</b> 120-277V	<b>DD</b> 0-10V External dimming (controls by others) <sup>4</sup> <b>DCC</b> Dual Circuit Control <sup>4,5,6,9</sup> <b>FAWS</b> Field Adjustable Wattage Selector <sup>4,5</sup> <b>LCC</b> Integral wireless module <sup>4,6,7,11,13</sup> <b>BL</b> Bi-level functionality <sup>4,13</sup> <b>DynaDimmer: Automatic Profile Dimming</b> <sup>4,7</sup> <b>CS50</b> Security 50% Dimming, 7 hours <b>CM50</b> Median 50% Dimming, 8 hours <b>CS30</b> Security 30% Dimming, 7 hours <b>CM30</b> Median 30% Dimming, 8 hours	<b>IMR12</b> <sup>15</sup> Integral with #2 lens	<b>PCB</b> Photocontrol Button <sup>7,8,12</sup>	<b>Fusing</b> <b>F1</b> Single (120, 277, 347VAC) <sup>8</sup> <b>F2</b> Double (208, 240, 480VAC) <sup>8</sup> <b>F3</b> Canadian Double Pull (208, 240, 480VAC) <sup>8</sup> <b>Surge Protection (10kA is standard)</b> <b>SP2</b> Increased 20kA	<b>Textured</b> <b>BK</b> Black <b>WH</b> White <b>BZ</b> Bronze <b>DGY</b> Dark Gray <b>MGY</b> Medium Gray <b>Customer specified</b> <b>RAL</b> Specify optional color or RAL (ex: RAL7024) <b>CC</b> Custom color (Must supply color chip for required factory quote)	
		<b>400</b> 400mA	<b>NW-G2</b> Neutral White 4000K, 70 CRI Generation 2	<b>3</b> Type 3		<b>120</b> 120V						
		<b>500</b> 500mA	<b>CW-G2</b> Cool White 5000K, 70 CRI Generation 2	<b>4</b> Type 4		<b>208</b> 208V						
		<b>600</b> 600mA	<b>AM-G2</b> Direct Amber (590nm) Generation 2 <sup>2,14</sup>	<b>BLC</b> Back light control		<b>240</b> 240V						
		<b>700</b> 700mA				<b>277</b> 277V						
		<b>64L</b> 64 LEDs	<b>600</b> 600mA	<b>WY-G2</b> Warm Yellow 2700K, 80 CRI Generation 2 <sup>2</sup>								<b>347</b> 347V
			<b>700</b> 700mA									<b>480</b> 480V
		<b>800</b> 800mA										
		<b>900</b> 900mA										

1. Only 300mA can be used with battery backup (EBPC) configuration.
2. Extended lead times apply. Contact factory for details.
3. Available only in 120 or 277V.
4. Not available with other dimming control options.
5. Not available with motion sensor.

6. Not available with photocontrol.
7. Not available in 347 or 480V.
8. Must specify input voltage.
9. Available with two modules per circuit (64L) at 600mA.
10. Not available with DCC and CS/CM.
11. Not available in 800 or 900mA.

12. Not available with 64L.
13. Must specify a motion sensor lens.
14. Limited to max. 600mA configurations
15. Not available with DD, DCC, and FAWS dimming control options.



# PWS PureForm LED wall sconce

## wall mount

### Luminaire Accessories<sup>1</sup> (order separately)

#### Mounting Accessories

##### Wall Mount

PWS-WS-G2	Wall Mounted Box for Surface Conduit Painted Black
-----------	--

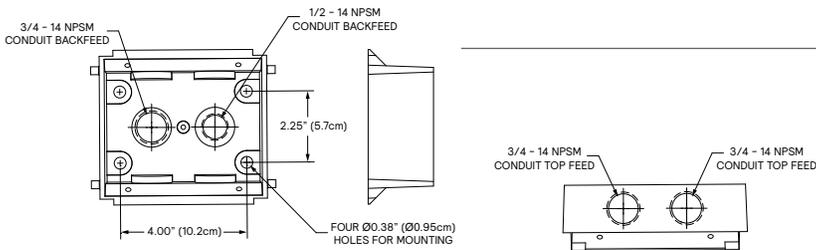
#### System accessories

##### Wireless system remote mount module

LLCR2-(F)	#2 lens - specify finish in place of (F)
LLCR3-(F)	#3 lens - specify finish in place of (F)

#### Wireless system remote controller accessory

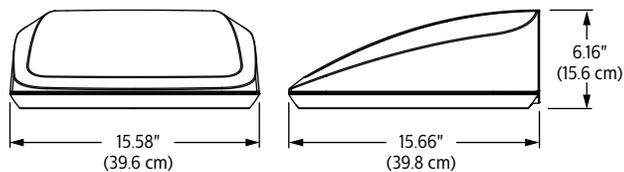
Wireless system offers a remote radio/sensor module that allows connection to a Limelight system (sold by others). Remote module can be mounted to wall or pole with j-box supplied. May be specified by choosing one of two different lenses to accommodate a variety of mounting heights/sensor detection ranges. Must specify option DD on luminaires that are planned to be used with remote mount controllers.



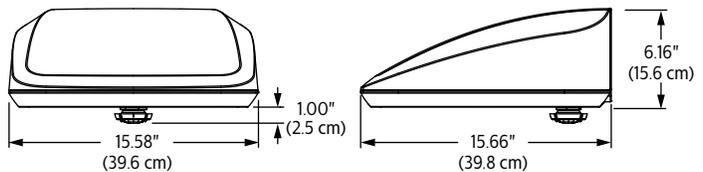
1. Consult Signify to confirm whether specific accessories are BAA-compliant.

### Dimensions

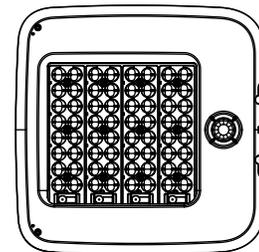
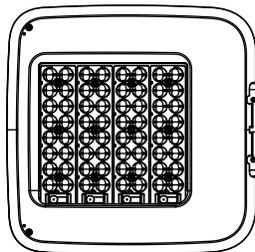
#### Standard Luminaire



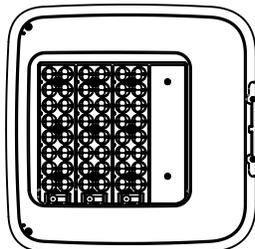
#### Motion Response and Wireless System



4 modules



3 modules



#### Luminaire Weights

PureForm LED wall sconces PWS	Weight
Luminaire	24 lbs
Luminaire - EBPC (EM battery pack)	27 lbs

# PWS PureForm LED wall sconce

## wall mount

### LED Wattage and Lumen Values - 3000K

Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4			BLC	
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	BUG Rating	Efficacy (LPW)
PWS-48L-300-WW-G2-x	48	300	3000	47	5755	B2-U0-G1	123	5667	B1-U0-G2	121	5744	B1-U0-G2	123	B0-U0-G1	94
PWS-48L-400-WW-G2-x	48	400	3000	61	7469	B2-U0-G2	122	7357	B1-U0-G2	120	7455	B1-U0-G2	122	B0-U0-G2	93
PWS-48L-500-WW-G2-x	48	500	3000	76	9072	B2-U0-G2	120	8935	B2-U0-G2	118	9056	B2-U0-G2	119	B0-U0-G2	92
PWS-48L-600-WW-G2-x	48	600	3000	91	10657	B2-U0-G2	117	10496	B2-U0-G2	115	10637	B2-U0-G2	117	B1-U0-G2	90
PWS-48L-700-WW-G2-x	48	700	3000	105	12339	B3-U0-G2	118	12154	B2-U0-G2	116	12317	B2-U0-G2	117	B1-U0-G2	90
PWS-64L-600-WW-G2-x	64	600	3000	118	14257	B3-U0-G2	121	14043	B2-U0-G3	120	14231	B2-U0-G3	121	B1-U0-G2	93
PWS-64L-700-WW-G2-x	64	700	3000	137	16076	B3-U0-G3	117	15834	B2-U0-G3	115	16046	B2-U0-G3	117	B1-U0-G2	90
PWS-64L-800-WW-G2-x	64	800	3000	158	17922	B3-U0-G3	113	17653	B3-U0-G3	112	17889	B3-U0-G3	110	B1-U0-G3	87
PWS-64L-900-WW-G2-x	64	900	3000	179	19692	B3-U0-G3	110	19396	B3-U0-G3	108	19656	B3-U0-G3	108	B1-U0-G3	84

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown. Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm performance with a photometric layout.

NOTE: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.

### LED Wattage and Lumen Values - 4000K

Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4			BLC	
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	BUG Rating	Efficacy (LPW)
PWS-48L-300-NW-G2-x	48	300	4000	47	6394	B2-U0-G1	137	6298	B1-U0-G2	135	6386	B1-U0-G2	136	B0-U0-G1	105
PWS-48L-400-NW-G2-x	48	400	4000	61	8299	B2-U0-G2	135	8175	B1-U0-G2	133	8290	B1-U0-G2	135	B0-U0-G2	104
PWS-48L-500-NW-G2-x	48	500	4000	76	10080	B2-U0-G2	133	9929	B2-U0-G2	131	10072	B2-U0-G2	133	B0-U0-G2	102
PWS-48L-600-NW-G2-x	48	600	4000	91	11841	B3-U0-G2	130	11664	B2-U0-G2	128	11833	B2-U0-G2	130	B1-U0-G2	100
PWS-48L-700-NW-G2-x	48	700	4000	105	13710	B3-U0-G2	131	13505	B2-U0-G2	129	13702	B2-U0-G3	130	B1-U0-G2	100
PWS-64L-600-NW-G2-x	64	600	4000	118	15841	B3-U0-G3	135	15603	B2-U0-G3	133	15814	B2-U0-G3	135	B1-U0-G2	103
PWS-64L-700-NW-G2-x	64	700	4000	137	17862	B3-U0-G3	130	17594	B3-U0-G3	128	17830	B3-U0-G3	130	B1-U0-G2	100
PWS-64L-800-NW-G2-x	64	800	4000	158	19913	B3-U0-G3	126	19614	B3-U0-G3	124	19878	B3-U0-G4	126	B1-U0-G3	97
PWS-64L-900-NW-G2-x	64	900	4000	179	21880	B3-U0-G3	122	21551	B3-U0-G4	120	21839	B3-U0-G4	122	B1-U0-G3	94

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown. Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm performance with a photometric layout.

NOTE: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.

### LED Wattage and Lumen Values - 5000K

Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4			BLC	
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	BUG Rating	Efficacy (LPW)
PWS-48L-300-CW-G2-x	48	300	5000	47	6394	B2-U0-G1	137	6297	B1-U0-G2	135	6382	B1-U0-G2	136	B0-U0-G2	105
PWS-48L-400-CW-G2-x	48	400	5000	61	8299	B2-U0-G2	135	8174	B2-U0-G2	133	8283	B1-U0-G2	135	B0-U0-G2	104
PWS-48L-500-CW-G2-x	48	500	5000	76	10080	B2-U0-G2	133	9928	B2-U0-G2	131	10062	B2-U0-G2	133	B1-U0-G2	102
PWS-48L-600-CW-G2-x	48	600	5000	91	11841	B3-U0-G2	130	11662	B2-U0-G2	128	11819	B2-U0-G2	130	B1-U0-G2	100
PWS-48L-700-CW-G2-x	48	700	5000	105	13710	B3-U0-G2	131	13504	B2-U0-G2	129	13685	B2-U0-G3	130	B1-U0-G2	100
PWS-64L-600-CW-G2-x	64	600	5000	118	15841	B3-U0-G3	135	15603	B2-U0-G3	133	15812	B2-U0-G3	135	B1-U0-G2	103
PWS-64L-700-CW-G2-x	64	700	5000	137	17862	B3-U0-G3	130	17593	B3-U0-G3	128	17829	B3-U0-G3	130	B1-U0-G3	100
PWS-64L-800-CW-G2-x	64	800	5000	158	19913	B3-U0-G3	126	19614	B3-U0-G3	124	19877	B3-U0-G4	126	B1-U0-G3	97
PWS-64L-900-CW-G2-x	64	900	5000	179	21880	B3-U0-G3	122	21551	B3-U0-G4	120	21840	B3-U0-G4	122	B1-U0-G3	94

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown. Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm performance with a photometric layout.

NOTE: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.

# PWS PureForm LED wall sconce

## wall mount

### LED Wattage and Lumen Values (Emergency Mode)

Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Avg. System Watts		Lumen Outputs							
				Normal Mode	Emergency Mode	Type 2		Type 3		Type 4		BLC	
						Normal Mode	Emergency Mode	Normal Mode	Emergency Mode	Normal Mode	Emergency Mode	Normal Mode	Emergency Mode
PWS-48L-300-NW-G2-x-EBPC	48	300	4000	47	14	6394	2110	6297	2078	6382	2106	4896	1615

For emergency EBPC option, publish values are based on initial lumens.

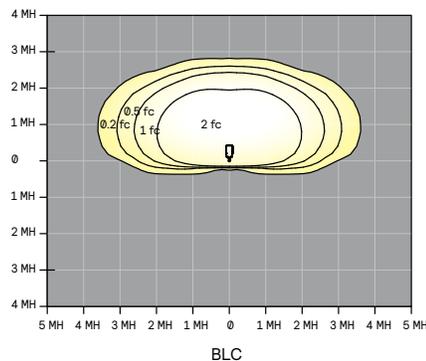
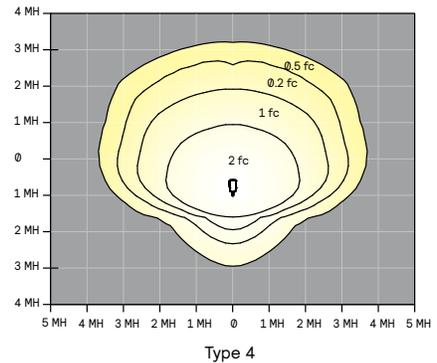
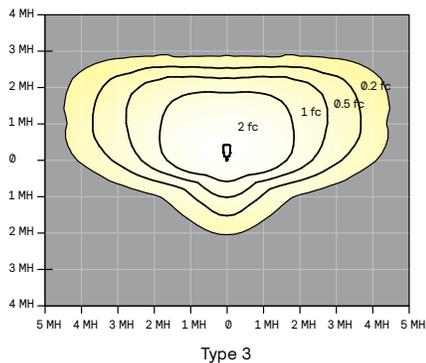
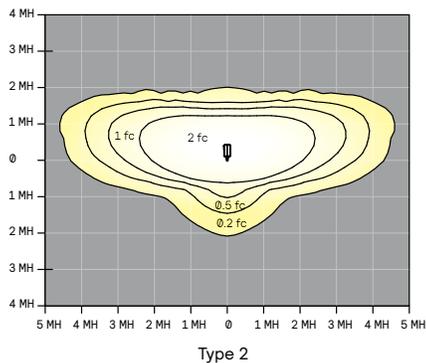
### Predicted Lumen Depreciation Data

Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions. L70 is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L70 hours limited to 6 times actual LED test hours

Ambient Temperature °C	Drive current	Calculated L70 Hours	L70 per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	up to 900 mA	>100,000 hours	>54,000 hours	>96%

### Optical Distributions

Based on 20' mounting height



# PWS PureForm LED wall sconce

## wall mount

### Specifications

#### Housing

Main body housing and door frame made of low copper die cast aluminum alloy for a high resistance to corrosion. Door hinges secured by aircraft cable to allow access to driver or other electronic components for servicing. The door frame acts as the main heat transfer component and it is optimized to allowing the main housing to have no fins, giving the freedom to have a clean minimalist aesthetic design while allowing it to house emergency battery backup equipment and various other options. Luminaire housing rated to IP65, tested in accordance to Section 9 of IEC 60598-1.

#### Light engine

Light engine comprises of a module of 16-LED aluminum metal clad board fully sealed with optics offered in multiples of 3 and 4 modules or 48 and 64 LEDs. Module is RoHS compliant. Direct Amber LED is narrow spectrum with dominant wavelength at 596 nm (peak wavelength at 601 nm). Contact factory for details. LED light engine is rated IP66 in accordance to Section 9 of IEC 60598-1.

#### Optical systems

Type 2, 3, and 4 distributions available. Performance tested per LM-79 and TM-15 (IESNA) certifying its photometric performance. Luminaire designed with 0% uplight (U0 per IESNA TM-15).

#### Mounting

Mounting is completed through integral back plate that features a separate recessed feature for hook and lock quick mount plate that secures with two set screws from bottom of luminaire. Luminaire ships fully assembled, ready to install.

#### Control options

**0-10V dimming (DD):** Access to 0-10V dimming leads supplied through back of luminaire (for secondary dimming controls by others). Cannot be used with other control options.

**Field Adjustable Wattage Selector (FAWS):** Luminaire equipped with the ability to manually adjust the wattage in the field to reduce total luminaire lumen output and light levels. Comes pre-set to the highest position at the lumen output selected. Use chart below to estimate reduction in lumen output desired. Cannot be used with other control options or motion response.

FAWS Position	Percent of Typical Lumen Output
1	25%
2	50%
3	55%
4	65%
5	75%
6	80%
7	85%
8	90%
9	95%
10	100%

**Note:** Typical value accuracy +/- 5%

**Automatic Profile Dimming (CS/CM):** Standard dimming profiles provide flexibility towards energy savings goals while optimizing light levels during specific dark hours. Dimming profiles include two dimming settings including dim to 30% or 50% of the total lumen output. When used in combination with not programmed motion response it overrides the controller's schedule when motion is detected. After 5 minutes with no motion, it will return to the automatic dimming profile schedule. Automatic dimming profile scheduled with the following settings:

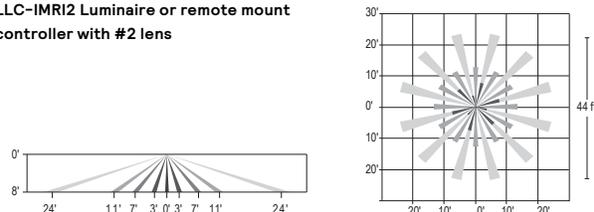
- **CS50/CS30:** Security for 7 hours night duration (Ex., 11 PM - 6 AM)
- **CM50/CM30:** Median for 8 hours night duration (Ex., 10 PM - 6 AM)

All above profiles are calculated from mid point of the night. Dimming is set for 6 hours after the mid point and 2, or 3 hours before depending of the duration of dimming. Cannot be used with other dimming control options.

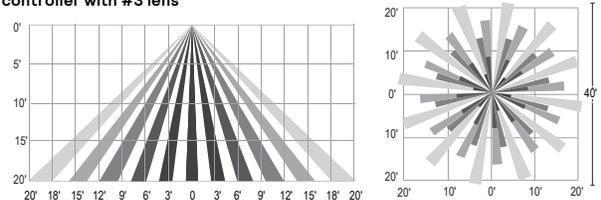
**Emergency Battery Backup Cold Pack (EBPC):** Emergency battery pack is cold weather rated down to -20C (-4F) and integral to the luminaire, allowing for a consistent look between emergency and non-emergency sconces. A separate surface mount accessory box is not required. Emergency battery pack is used with 48L configuration in 300mA wired in parallel, operating in emergency mode to meet various redundancy requirements. Secondary driver with relay immediately detects AC power loss and powers luminaire for a minimum of 90 minutes from the time power is lost. Available in 120 or 277V only.

**Wireless system (LLC):** Optional wireless controller integral to luminaire ready to be connected to a Lighthouse system (sold by others). The system allows you to wirelessly manage the entire site, independent lighting groups or individual luminaires while on-site or remotely. Based on a high-density mesh network with an easy to use web-based portal, you can conveniently access, monitor and manage your lighting network remotely. Wireless controls can be combined with site and area, pedestrian, and parking garage luminaires as well, for a completely connected outdoor solution. Equipped with motion response with #2 lens (LLC-IMRI2) for 8' to 15' mounting height" or #3 lens (LLC-IMRI3) for 8-25' mounting heights. Also available with remote pod accessory where pod is mounted separate from luminaire to pole or wall.

LLC-IMRI2 Luminaire or remote mount controller with #2 lens



LLC-IMRI3 Luminaire or remote mount controller with #3 lens



# PWS PureForm LED wall sconce

## wall mount

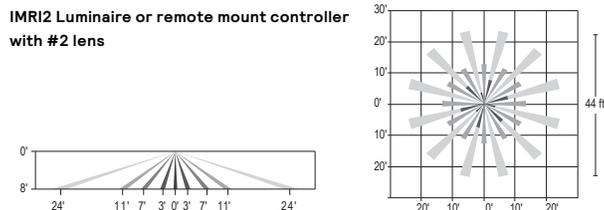
### Specifications (cont'd)

#### Motion response options

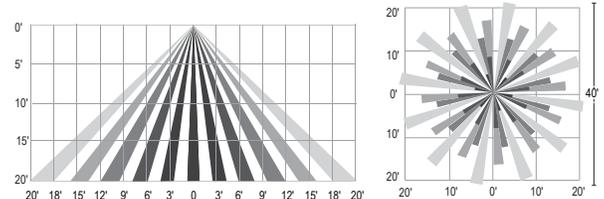
**Bi-Level Infrared Motion Response (BL-IMRI3):** Motion Response module is mounted integral to luminaire factory pre-programmed to 50% dimming when not ordered with other control options. BL-IMRI is set/operates in the following fashion: The motion sensor is set to a constant 50%. When motion is detected by the PIR sensor, the luminaire returns to full power/light output. Dimming on low is factory set to 50% with 5 minutes default in "full power" prior to dimming back to low. When no motion is detected for 5 minutes, the motion response system reduces the wattage by 50%, to 50% of the normal constant wattage reducing the light level. Other dimming settings can be provided if different dimming levels are required. This can also be done with FSIR-100 Wireless Remote Programming Tool (contact Technical Support for details).

**Infrared Motion Response Lenses (IMRI2/IMRI3):** Infrared Motion Response Integral module is available with two different sensor lens types to accommodate various mounting heights and occupancy detection ranges. Lens #2 (IMRI2) is designed for lower mounting heights up to 8' with larger coverage areas up to 44' diameter coverage area. Lens #3 (IMRI3) is designed for mounting heights up to 20' with a 40' diameter coverage area. See charts for approximate detection patterns:

IMRI2 Luminaire or remote mount controller with #2 lens



IMRI3 Luminaire or remote mount controller with #3 lens



#### Electrical

**Driver:** Driver efficiency (>90% standard). 120-480V available (restrictions apply). Open/short circuit protection. Optional 0-10V dimming to 10% power. RoHS compliant.

**Button Photocontrol (PCB):** Button style design for internal luminaires mounting applications. The photocontrol is constructed of a high impact UV stabilized polycarbonate housing. Rated voltage of 120V or 208-277V with a load rating of 1000 VA. The photocell will turn on with 1-4Fc of ambient light.

**Surge protection (SP1/SP2):** Each luminaire is provided as standard with surge protector tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/5kA waveforms for Line Ground, Line Neutral and Neutral Ground, and in accordance with U.S. DOE (Department of Energy) MSSLC (Municipal Solid-State Street Lighting Consortium) Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High Test Level 10kV / 5kA. Optional 20kV is available for additional protection.

#### Listings

UL/cUL listed to the UL 1598 standard, suitable for wet locations when mounted downward facing. Also listed for damp locations when inverted upward facing when mounted in covered ceiling application. Suitable for use in ambient temperatures from -40° to 40°C (-40° to 104°F). Most PureForm PWS configurations are qualified under Premium DesignLights Consortium® category. Consult DLC Qualified Products list for more details. CCTs 3000K and warmer are IDA Dark Sky Approved.

#### Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. The surface treatment achieves a minimum of 1000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard. Standard colors include bronze (BZ), black (BK), white (WH), dark gray (DGY), and medium gray (MGY). Consult factory for specs on optional or custom colors.

#### Warranty

PureForm luminaires feature a 5-year limited warranty. See [signify.com/warranties](http://signify.com/warranties) for complete details and exclusions.

### Buy American Act of 1933 (BAA):

This product is manufactured in one of our US factories and, as of the date of this document, this product was considered a commercially available off-the-shelf (COTS) item meeting the requirements of the BAA. This BAA designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. Prior to ordering, please visit [www.signify.com/baa](http://www.signify.com/baa) to view a current list of BAA-compliant products to confirm this product's current compliance.



PROJECT: \_\_\_\_\_ TYPE: \_\_\_\_\_ CATALOG #: MX- - - - -

## 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, LFS
CRI	82 (± 200)
PERFORMANCE	UP TO 117530 PEAK CANDELA
VOLTAGE	UNIVERSAL 110-208V, 277V
POWER	REMOTE POWER SUPPLY
CONTROL	0-10V DIMMING, DMX DIMMING
DIMENSIONS	3.25" X 4.25"
HOUSING	EXTRUDED ALUMINUM HOUSING
LENS	TEMPERED GLASS
FINISH	HIGH DURABILITY POWDER COATING
WARRANTY	5-YEAR LIMITED
OPERATING TEMP	-20°C TO 50°C (PLEASE CONTACT FACTORY FOR EXTREME TEMPERATURES)
LUMEN MAINTENANCE	75,000 HOURS
CERTIFICATION	ETL AND cETL FOR WET LOCATION, CLASS 1, IP67



FIXTURES SHOWN:  
MX-MO-40K-U-ASY-24-DIM-TW-CRF

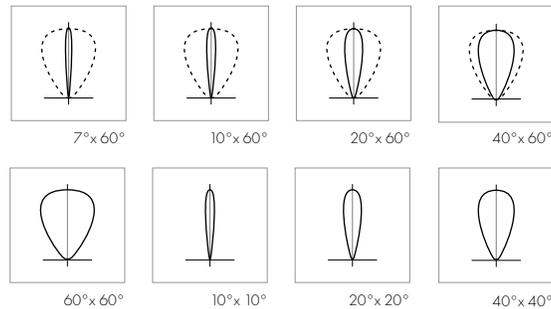


## STANDARD FINISHES

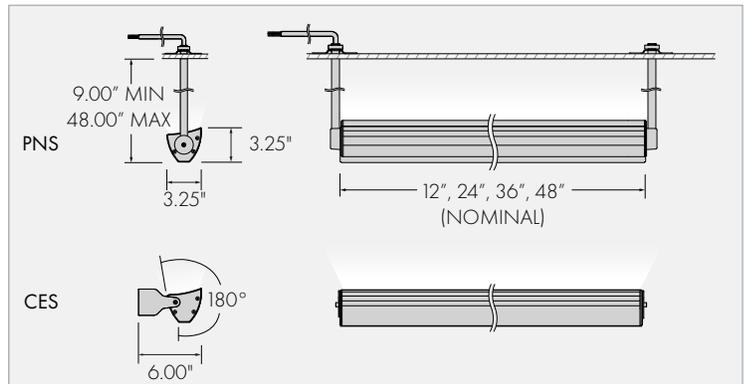


## OPTICS

Not all available optics shown



## DIMENSIONS





PROJECT: \_\_\_\_\_ TYPE: \_\_\_\_\_ CATALOG #: MX - - - - -

**PERFORMANCE**

Nominal lengths

CCT AND LENGTH	OPTIC	LOW OUTPUT (3.5 W/FT)			MEDIUM OUTPUT (9.0 W/FT)			HIGH OUTPUT (15.0 W/FT)		
		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	1070 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	111.0 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	1071 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
	ASY	888 LM	96.3 LM/W	3134	1473 LM	97.8 LM/W	5199	2890 LM	88.2 LM/W	9369
4000K 36"	7° X 60°	1496 LM	1070 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	1071 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
	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
4000K 48"	7° X 60°	1995 LM	1070 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	1071 LM/W	1763	3332 LM	109.3 LM/W	2970	6708 LM	97.7 LM/W	5998
	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 #: MX - - - - -

## 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

NOMINAL FIXTURE LENGTH	LOW OUTPUT (3.5 W/FT)			MEDIUM OUTPUT (9.0 W/FT)			HIGH OUTPUT (15.0 W/FT)		
	CONTRA STANDARD POWER 96W OUTPUT	CONTRA HIGH POWER 240W OUTPUT	CONTRA DUAL HIGH POWER (2)-240W	CONTRA STANDARD POWER 96W OUTPUT	CONTRA HIGH POWER 240W OUTPUT	CONTRA DUAL HIGH POWER (2)-240W	CONTRA STANDARD 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

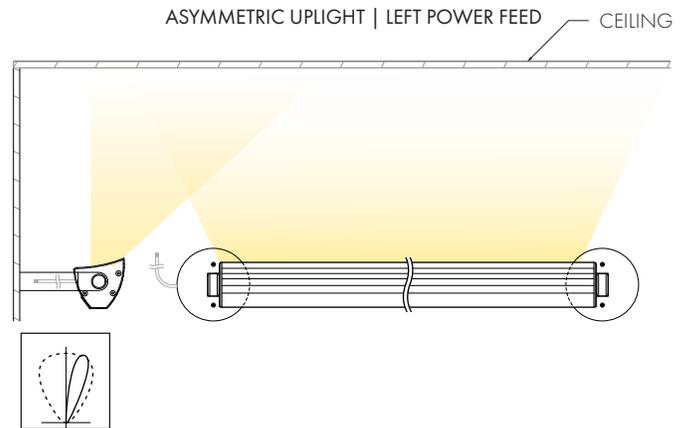
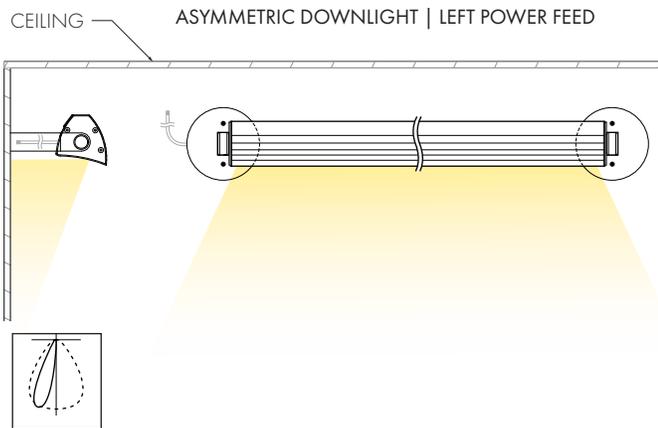
### REMOTE DISTANCE LIMITS

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

### ASYMMETRIC DISTRIBUTION / POWER FEED EXAMPLES

A 48" white leader cable (left hand power feed) is provided on all fixtures

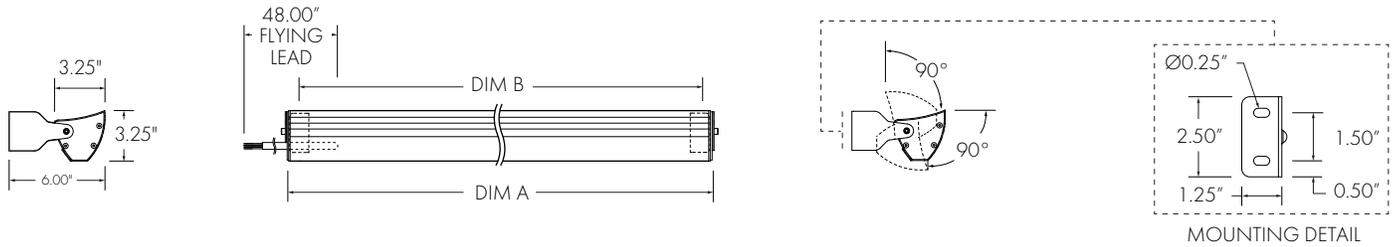


PROJECT:	TYPE:	CATALOG #:	MX - - - - -
----------	-------	------------	--------------

## DIMENSIONS

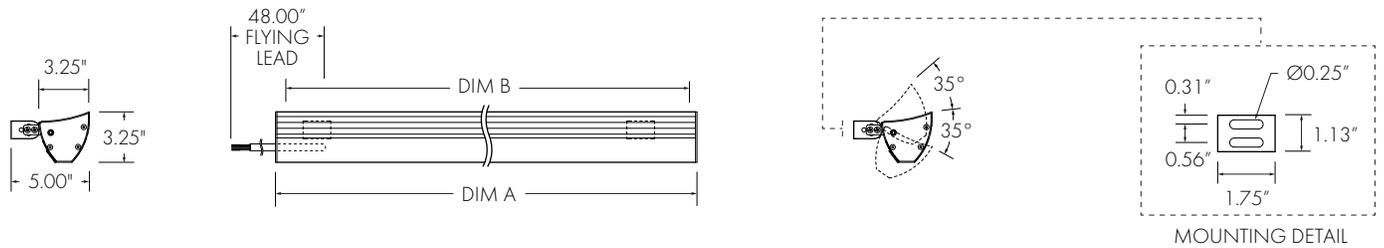
### CLOSE END (CES)

FIXTURE LENGTH	12"	24"	36"	48"
DIM A	15.13"	27.13"	39.13"	51.13"
DIM B	14.13"	26.13"	38.13"	50.13"



### SURFACE (SMS)

FIXTURE LENGTH	12"	24"	36"	48"
DIM A	15.13"	27.13"	39.13"	51.13"
DIM B	6.00" MIN   9.00" MAX	6.00" MIN   21.00" MAX	12.00" MIN   33.00" MAX	24.00" MIN   45.00" MAX

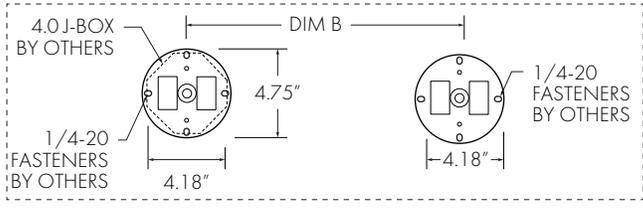
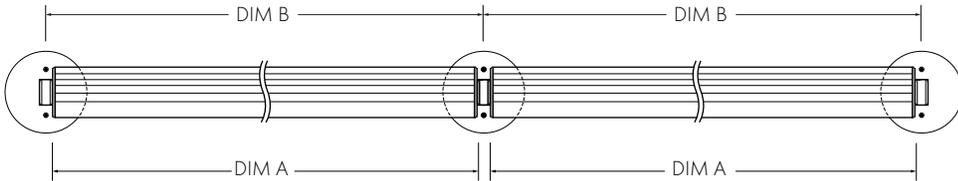
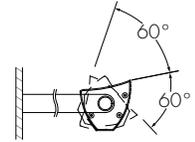
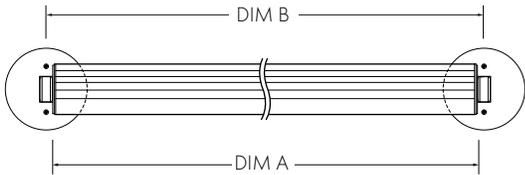
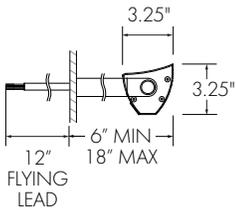


PROJECT:	TYPE:	CATALOG #: MX - - - - -
----------	-------	-------------------------

**DIMENSIONS**

**EXTENDED ARM (EAS AND EAM)**

FIXTURE LENGTH	12"	24"	36"	48"
DIM A	15.13"	27.13"	39.13"	51.13"
DIM B	15.88"	27.88"	39.88"	51.88"

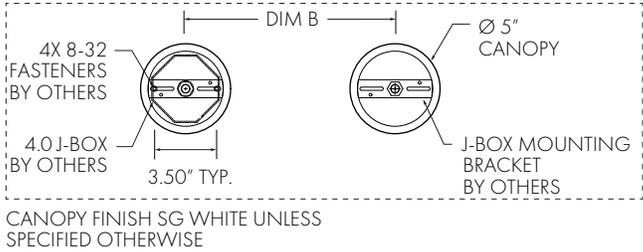
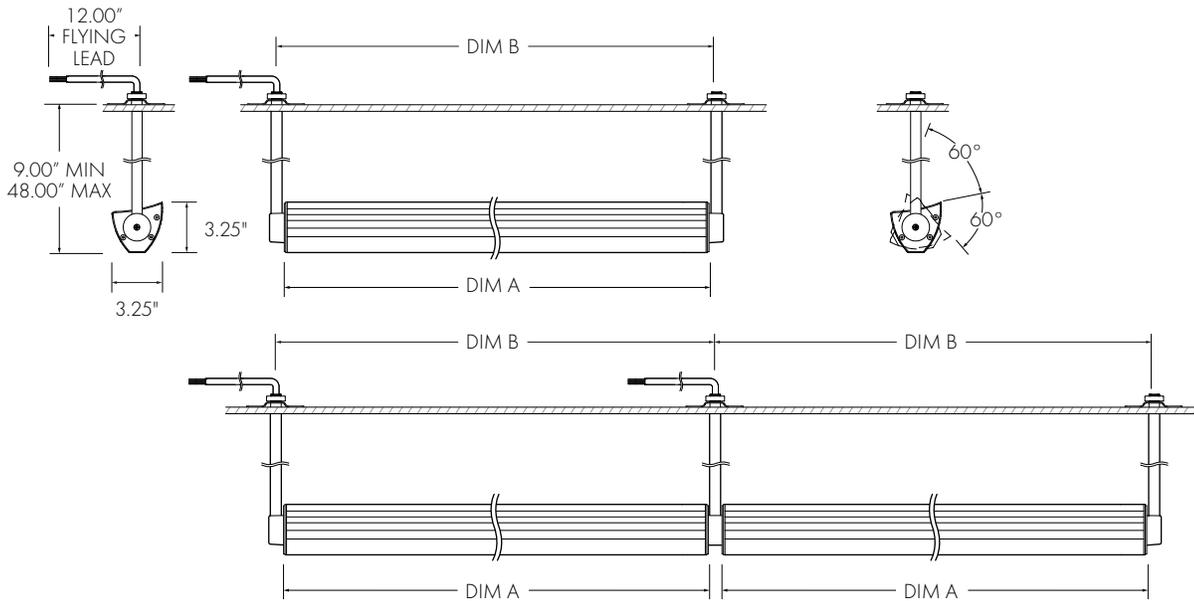


PROJECT: \_\_\_\_\_ TYPE: \_\_\_\_\_ CATALOG #: MX - - - - -

**DIMENSIONS**

**PENDANT (PNS AND PNM)**

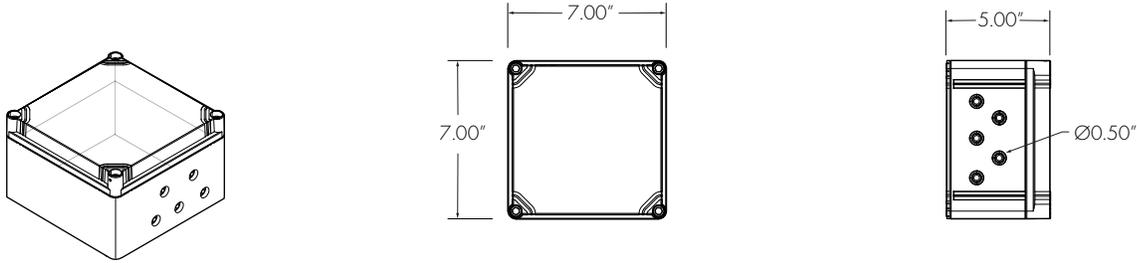
FIXTURE LENGTH	12"	24"	36"	48"
DIM A	15.13"	27.13"	39.13"	51.13"
DIM B	16.19"	28.19"	48.19"	52.19"



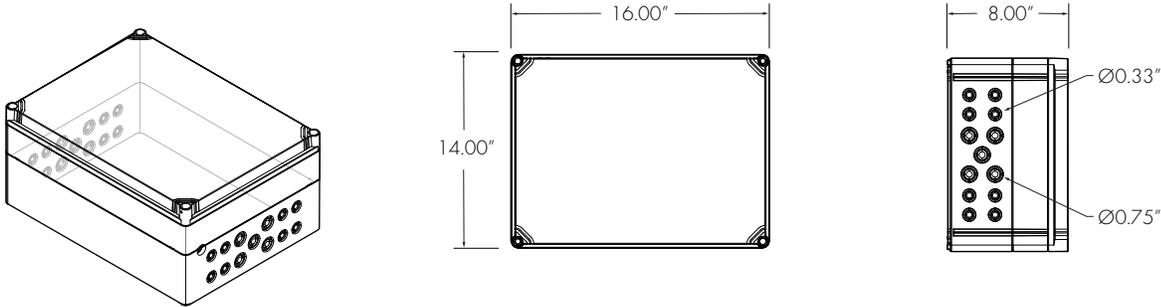
PROJECT: \_\_\_\_\_ TYPE: \_\_\_\_\_ CATALOG #: MX - - - - -

**REMOTE POWER ENCLOSURE DIMENSIONS**

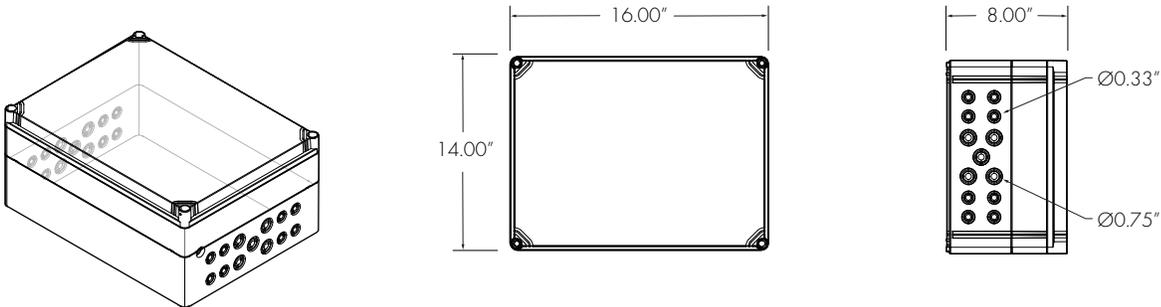
**CONTRA EXTERIOR LOW POWER SUPPLY - CEL (0-10V DIMMING, DMX)**



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



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



## FEATURES & SPECIFICATIONS

**INTENDED USE** — The 4", 6" and 8" Wafer™ LED Downlight with Switchable White provides high-quality light output and efficiency featuring a switch for easy color temperature adjustment - while eliminating the need for recessed housings. The innovative, slim design allows for easy retrofit, remodel or new construction installation from below the ceiling. The Wafer LED downlight is wet location listed – making it ideal for use in a breadth of outdoor residential, hospitality, commercial and multifamily applications. The LED module maintains at least 70% light output for 50,000 hours.

**CONSTRUCTION** — Aluminum die cast outer frame. Durable, powder coat paint to prevent rust. FT4 plenum rated cable connector to connect from module to remote driver box. IC rated driver with convenience and value of two remote selectable color temperature options, each with a setting choice to chose either 2700K, 3000K, and 3500K or 3000K, 4000K, and 5000K using the switch. The isolated driver integrated inside steel remote box with four 7/8" knockouts with slots for pryout. Suitable for pulling wires with the 12 cubic-inch wiring compartment to accommodate up to (6) 14 gauge insulated conductors, or (4) 12 gauge insulated conductors; making the Wafer LED Downlights much easier to wire in 2in/2out (plus ground) daisy-chain applications and contractor friendly.

**INSTALLATION** — Ideal for shallow ceiling plenum; no housing required. Steel spring clip for easy installation. 4", 6" or 8" cut out template is provided to ensure a correct sized hole is cut into ceiling for proper installation of the trim. Size of hole should not exceed 4-1/4" for the WF4, 6-1/4" for the WF6 and 8-1/4" for the WF8. Suitable for installation in t-grid and drop ceiling applications. 3" plenum space required for installation of the remote driver box.

**OPTICS** — Edge-lit LED technology uses light guided plate to distribute light. Polycarbonate lens provides even illumination throughout the space.

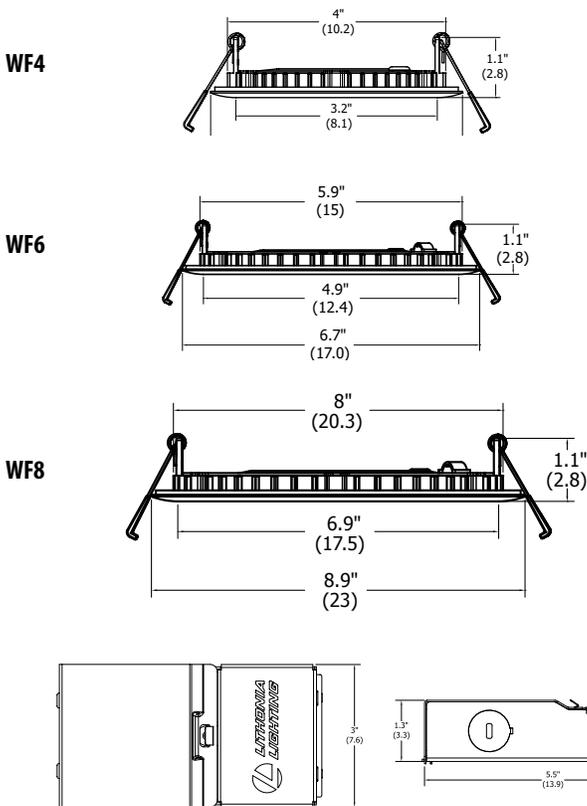
**ELECTRICAL** — Multi-volt (120-277V, 50/60Hz) proprietary remote LED driver/splice box, with two (2) additional low-voltage wires for 0-10v dimming, down to 10% (depending on dimmer model and application). High efficient driver with power factor > 0.9. Ambient operating temperature: -40°F (-40°C) to +104°F (+40°C). Replaces 65W incandescent (WF4), 75W incandescent (WF6) or 100W incandescent (WF8).

**LISTINGS** — CSA certified to US and Canadian safety standards. ENERGY STAR® certified. Suitable for wet location, covered ceiling. Air Tight certified in accordance with ASTM E283-2004. NOM Certified. Can be used to comply with California Title 24 Part 6 High Efficacy LED light Source Requirements.

**WARRANTY** — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at:

[www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



Catalog Number
Notes
Type

Wafer LED Recessed Downlight

# WF4/WF6/WF8 MVOLT 4", 6" and 8" LED Switchable White Color Temperature

IC/Non-IC  
New Construction/Remodel



Matte black



Brushed nickel



Oil-rubbed bronze

	WF4 Specifications	WF6 Specifications	WF8 Specifications
Aperture:	3.2 (8.1)	Aperture: 4.9 (12.4)	Aperture: 6.9"
Ceiling opening:	4.2 (10.7)	Ceiling opening: 6 (15.2)	Ceiling opening: 8"
Overlap trim:	4.7 (12.0)	Overlap trim: 6.7 (17)	Over lamp trim: 8.9"
Height:	1.1 (2.8)	Height: 1.1 (2.8)	Height : 1.1"

All dimensions are inches (centimeters) unless otherwise indicated.

# WF4 WF6 WF8 MVOLT Switchable White 4", 6" or 8" LED Wafer Module

## ORDERING INFORMATION

For shortest lead times, configure product using **standard options (shown in bold)**.

**Example:** WF4 LED 30K40K50K MVOLT 90CRI MW

WF4	LED				
Series	Lamp	CCT/W/Lumens <sup>1</sup>	Voltage	CRI	Finish
WF4 4" wafer-thin LED downlight	LED LED	<b>27K30K35K</b> 2700K/10.5W/730L 3000K/10.5W/800L 3500K/10.5W/780L	<b>MVOLT</b> Multi-Volt (120-277V)	<b>90CRI</b> 90CRI	<b>MW</b> Matte White <b>MB</b> Matte Black <b>BN</b> Brush Nickel <b>ORB</b> Oil-Rubbed Bronze
		<b>30K40K50K</b> 3000K/10.5W/750L 4000K/10.5W/810L 5000K/10.5W/790L			

## ORDERING INFORMATION

For shortest lead times, configure product using **standard options (shown in bold)**.

**Example:** WF6 LED 30K40K50K MVOLT 90CRI MW

WF6	LED				
Series	Lamp	CCT/W/Lumens <sup>1</sup>	Voltage	CRI	Finish
WF6 6" wafer-thin LED downlight	LED LED	<b>27K30K35K</b> 2700K/14W/1070L <b>3000K/14W/1150L</b> 3500K/14W/1110L	<b>MVOLT</b> Multi-Volt (120-277V)	<b>90CRI</b> 90CRI	<b>MW</b> Matte White <b>MB</b> Matte Black <b>BN</b> Brush Nickel <b>ORB</b> Oil-Rubbed Bronze
		<b>30K40K50K</b> 3000K/14W/1090L 4000K/14W/1190L 5000K/14W/1120L			

## ORDERING INFORMATION

For shortest lead times, configure product using **standard options (shown in bold)**.

**Example:** WF8 LED 30K40K50KT MVOLT 90CRI MW

WF8	LED				
Series	Lamp	CCT/W/Lumens <sup>1</sup>	Voltage	CRI	Finish
WF8 8" wafer-thin LED downlight	LED LED	<b>27K30K35K</b> 2700K/20.5W/1630L 3000K/20.5W/1800L 3500K/20.5W/1740L	<b>MVOLT</b> Multi-Volt (120-277V)	<b>90CRI</b> 90CRI	<b>MW</b> Matte White
		<b>30K40K50K</b> 3000K/20.5W/1690L 4000K/20.5W/1850L 5000K/20.5W/1820L			

### Notes

1 Total system delivered lumens.

### Accessories: Order as separate catalog number.

WF8643 PAN R6	Universal New Construction Pan, Retail Pack of 6
WF8643 PAN U	Universal new construction pan, Unit Pack
WF4 PAN R12	4" new construction pan, retail pack of 12
WF6 PAN R12	6" new construction pan, retail pack of 12
WFJB U	Remodel joist bar
WFEXC6 SW3PIN FT4	3-Pin 6ft Cable
WFEXC10 SW3PIN FT4	3-Pin 10ft Cable
WFEXC20 SW3PIN FT4	3-Pin 20ft Cable
WF4GR MW	4" Wafer Goof Ring 4.2" ID x 6.2" OD
WF6GR MW	6" Wafer Goof Ring 6" ID x 8" OD
WF8GR MW	8" Wafer Goof Ring 8.1" ID x 10.1 OD

\*Goof rings are made of 22 gauge steel and painted white.



# WF4 WF6 WF8 MVOLT Switchable White 4", 6" or 8" LED Wafer Module

## PHOTOMETRICS

Distribution Curve

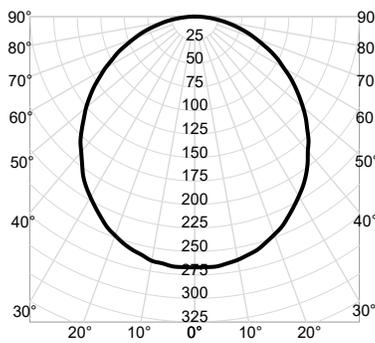
Distribution Data

Output Data

Coefficient of Utilization

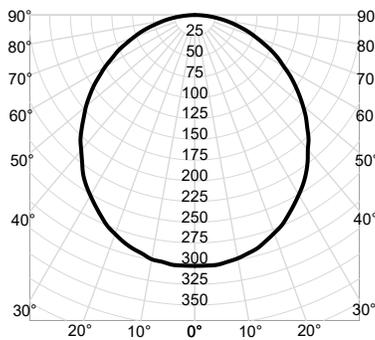
Illuminance Data at 30" Above Floor for a Single Luminaire

**WF4 LED 27K30K35K MVOLT 90CRI 2700K** Input Watts: 10.7, Delivered Lumens: 741, LPW: 69.3, S/MH: 1.23, Test No: ISF 36826P101



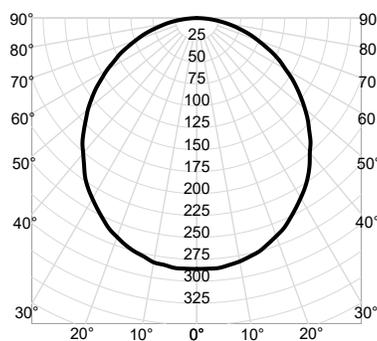
CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
						pf		80%		20%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance			
0°	Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%				0°	45°	85°	
0°	267	0° - 30°	207	28%	0	119	119	119	116	116	116	111	111	111	6.0	7.4	16.6	0°	50,195	
5°	267	0° - 40°	335	45%	1	104	99	96	101	98	94	97	94	91	8.0	4.2	22.1	45°	44,932	
15°	257	0° - 60°	583	79%	2	90	84	78	89	82	77	85	80	75	10.0	2.7	27.7	55°	42,609	
25°	235	0° - 90°	741	100%	3	79	71	65	78	70	64	75	68	63	12.0	1.9	33.2	65°	40,036	
35°	206	90° - 180°	0	0%	4	70	62	55	69	61	54	67	59	54	14.0	1.4	38.7	75°	36,318	
45°	169	0° - 180°	741	100%	5	63	54	47	62	53	47	60	52	46				85°	32,355	
55°	130				6	57	48	41	56	47	41	54	46	41	Beam Angle: 108.3°					
65°	90				7	51	43	37	51	42	36	49	42	36	Field Angle: 162.9°					
75°	50				8	47	38	33	46	38	32	45	38	32						
85°	15				9	43	35	29	43	35	29	41	34	29						
90°	0				10	40	32	27	39	32	27	38	31	26						

**WF4 LED 27K30K35K MVOLT 90CRI 3000K** Input Watts: 10.1, Delivered Lumens: 840, LPW: 83.2, S/MH: 1.23, Test No: ISF 36826P102



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
						pf		80%		20%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance			
0°	Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%				0°	45°	85°	
0°	303	0° - 30°	234	28%	0	119	119	119	116	116	116	111	111	111	6.0	8.4	16.6	0°	56,916	
5°	303	0° - 40°	380	45%	1	104	99	96	101	98	94	97	94	91	8.0	4.7	22.1	45°	50,947	
15°	291	0° - 60°	661	79%	2	90	84	78	89	82	77	85	80	75	10.0	3.0	27.7	55°	48,314	
25°	266	0° - 90°	840	100%	3	79	71	65	78	70	64	75	68	63	12.0	2.1	33.2	65°	45,396	
35°	234	90° - 180°	0	0%	4	70	62	55	69	61	54	67	59	54	14.0	1.5	38.7	75°	41,181	
45°	192	0° - 180°	840	100%	5	63	54	47	62	53	47	60	52	46				85°	36,687	
55°	147				6	57	48	41	56	47	41	54	46	41	Beam Angle: 108.3°					
65°	102				7	51	43	37	51	42	36	49	42	36	Field Angle: 162.9°					
75°	57				8	47	38	33	46	38	32	45	38	32						
85°	17				9	43	35	29	43	35	29	41	34	29						
90°	0				10	40	32	27	39	32	27	38	31	26						

**WF4 LED 27K30K35K MVOLT 90CRI 3500K** Input Watts: 10.4, Delivered Lumens: 793, LPW: 76.3, S/MH: 1.23, Test No: ISF 36826P103



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
						pf		80%		20%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance			
0°	Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%				0°	45°	85°	
0°	286	0° - 30°	221	28%	0	119	119	119	116	116	116	111	111	111	6.0	7.9	16.6	0°	53,761	
5°	286	0° - 40°	359	45%	1	104	99	96	101	98	94	97	94	91	8.0	4.5	22.1	45°	48,124	
15°	275	0° - 60°	624	79%	2	90	84	78	89	82	77	85	80	75	10.0	2.9	27.7	55°	45,636	
25°	252	0° - 90°	793	100%	3	79	71	65	78	70	64	75	68	63	12.0	2.0	33.2	65°	42,880	
35°	221	90° - 180°	0	0%	4	70	62	55	69	61	54	67	59	54	14.0	1.5	38.7	75°	38,898	
45°	181	0° - 180°	793	100%	5	63	54	47	62	53	47	60	52	46				85°	34,654	
55°	139				6	57	48	41	56	47	41	54	46	41	Beam Angle: 108.3°					
65°	96				7	51	43	37	51	42	36	49	42	36	Field Angle: 162.9°					
75°	54				8	47	38	33	46	38	32	45	38	32						
85°	16				9	43	35	29	43	35	29	41	34	29						
90°	0				10	40	32	27	39	32	27	38	31	26						

# WF4 WF6 WF8 MVOLT Switchable White 4", 6" or 8" LED Wafer Module

## PHOTOMETRICS

Distribution Curve

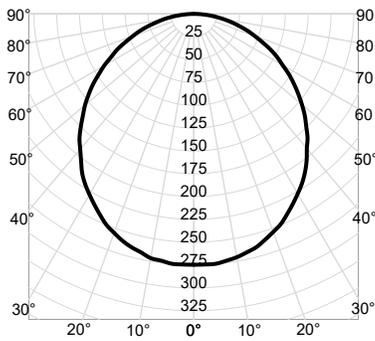
Distribution Data

Output Data

Coefficient of Utilization

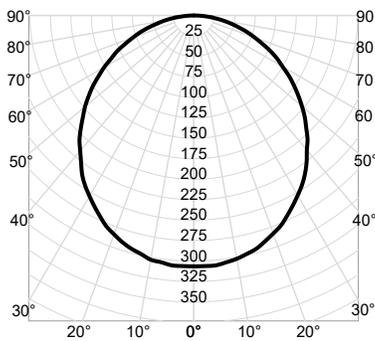
Illuminance Data at 30" Above Floor for a Single Luminaire

**WF4 LED 30K40K50K MVOLT 90CRI 3000K** Input Watts: 10.6, Delivered Lumens: 762, LPW: 71.9, S/MH: 1.23, Test No: ISF 36826P104



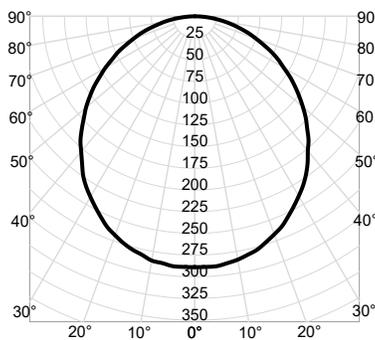
CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pf	80%		20%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance						
				pc	50%	30%	10%	50%	30%	10%					50%	30%	10%			
0°	275	0° - 30°	212	28%	0	119	119	119	116	116	116	111	111	111	6.0	7.6	16.6	0°	51,635	
5°	275	0° - 40°	345	45%	1	104	99	96	101	98	94	97	94	91	8.0	4.3	22.1	45°	46,221	
15°	264	0° - 60°	599	79%	2	90	84	78	89	82	77	85	80	75	10.0	2.7	27.7	55°	43,832	
25°	242	0° - 90°	762	100%	3	79	71	65	78	70	64	75	68	63	12.0	1.9	33.2	65°	41,184	
35°	212	90° - 180°	0	0%	4	70	62	55	69	61	54	67	59	54	14.0	1.4	38.7	75°	37,360	
45°	174	0° - 180°	762	100%	5	63	54	47	62	53	47	60	52	46				85°	33,284	
55°	134				6	57	48	41	56	47	41	54	46	41						
65°	93				7	51	43	37	51	42	36	49	42	36						
75°	51				8	47	38	33	46	38	32	45	38	32						
85°	15				9	43	35	29	43	35	29	41	34	29						
90°	0				10	40	32	27	39	32	27	38	31	26						

**WF4 LED 30K40K50K MVOLT 90CRI 4000K** Input Watts: 10.6, Delivered Lumens: 850, LPW: 80.2, S/MH: 1.23, Test No: ISF 36826P105



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pf	80%		20%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance						
				pc	50%	30%	10%	50%	30%	10%					50%	30%	10%			
0°	306	0° - 30°	237	28%	0	119	119	119	116	116	116	111	111	111	6.0	8.5	16.6	0°	57,601	
5°	306	0° - 40°	385	45%	1	104	99	96	101	98	94	97	94	91	8.0	4.8	22.1	45°	51,561	
15°	295	0° - 60°	669	79%	2	90	84	78	89	82	77	85	80	75	10.0	3.1	27.7	55°	48,896	
25°	270	0° - 90°	850	100%	3	79	71	65	78	70	64	75	68	63	12.0	2.1	33.2	65°	45,943	
35°	236	90° - 180°	0	0%	4	70	62	55	69	61	54	67	59	54	14.0	1.6	38.7	75°	41,677	
45°	194	0° - 180°	850	100%	5	63	54	47	62	53	47	60	52	46				85°	37,129	
55°	149				6	57	48	41	56	47	41	54	46	41						
65°	103				7	51	43	37	51	42	36	49	42	36						
75°	57				8	47	38	33	46	38	32	45	38	32						
85°	17				9	43	35	29	43	35	29	41	34	29						
90°	0				10	40	32	27	39	32	27	38	31	26						

**WF4 LED 30K40K50K MVOLT 90CRI 5000K** Input Watts: 10.1, Delivered Lumens: 801, LPW: 79.3, S/MH: 1.23, Test No: ISF 36826P106



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pf	80%		20%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance						
				pc	50%	30%	10%	50%	30%	10%					50%	30%	10%			
0°	289	0° - 30°	224	28%	0	119	119	119	116	116	116	111	111	111	6.0	8.0	16.6	0°	54,310	
5°	289	0° - 40°	363	45%	1	104	99	96	101	98	94	97	94	91	8.0	4.5	22.1	45°	48,615	
15°	278	0° - 60°	630	79%	2	90	84	78	89	82	77	85	80	75	10.0	2.9	27.7	55°	46,102	
25°	254	0° - 90°	801	100%	3	79	71	65	78	70	64	75	68	63	12.0	2.0	33.2	65°	43,317	
35°	223	90° - 180°	0	0%	4	70	62	55	69	61	54	67	59	54	14.0	1.5	38.7	75°	39,295	
45°	183	0° - 180°	801	100%	5	63	54	47	62	53	47	60	52	46				85°	35,008	
55°	141				6	57	48	41	56	47	41	54	46	41						
65°	97				7	51	43	37	51	42	36	49	42	36						
75°	54				8	47	38	33	46	38	32	45	38	32						
85°	16				9	43	35	29	43	35	29	41	34	29						
90°	0				10	40	32	27	39	32	27	38	31	26						

# WF4 WF6 WF8 MVOLT Switchable White 4", 6" or 8" LED Wafer Module

## ENERGY DATA

WF4 LED 27K30K35K MVOLT			
Color Temperature	2700K	3000K	3500K
Lumens	730	800	780
CRI	90	90	90
Rated wattage	10.7	10.1	10.4
Lu/Watts	68.2	79.2	75.0
Min. starting temp	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)
EMI/RFI	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B
Sound rating	Class A Standards	Class A Standards	Class A Standards
Input voltage	120V	120V	120V
Min. power factor	0.97	0.97	0.97
Input frequency	50/60 Hz	50/60 Hz	50/60 Hz
Input power	120V	120V	120V
Input current	0.09A	0.09A	0.09A

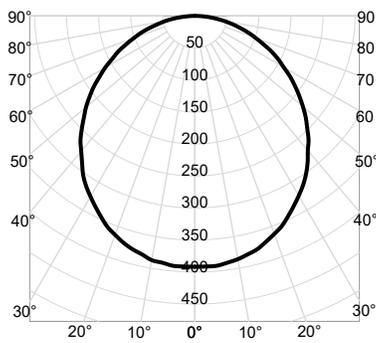
WF4 LED 30K40K50K MVOLT			
Color Temperature	3000K	4000K	5000K
Lumens	750	810	790
CRI	90	90	90
Rated wattage	10.6	10.6	10.1
Lu/Watts	70.8	76.4	78.2
Min. starting temp	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)
EMI/RFI	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B
Sound rating	Class A Standards	Class A Standards	Class A Standards
Input voltage	120V	120V	120V
Min. power factor	0.97	0.97	0.97
Input frequency	50/60 Hz	50/60 Hz	50/60 Hz
Input power	120V	120V	120V
Input current	0.09A	0.09A	0.09A

# WF4 WF6 WF8 MVOLT Switchable White 4", 6" or 8" LED Wafer Module

## PHOTOMETRICS

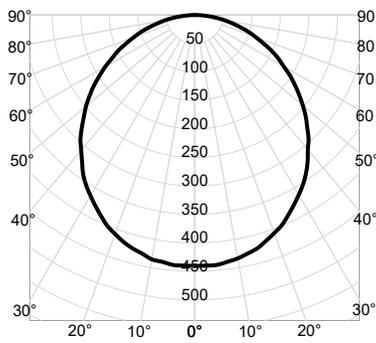
Distribution Curve	Distribution Data	Output Data	Coefficient of Utilization	Illuminance Data at 30" Above Floor for a Single Luminaire
--------------------	-------------------	-------------	----------------------------	--

**WF6 LED 27K30K35K MVOLT 90CRI 2700K** Input Watts: 14.1, Delivered Lumens: 1087, LPW: 77.1, S/MH: 1.23, Test No: ISF 36826P107



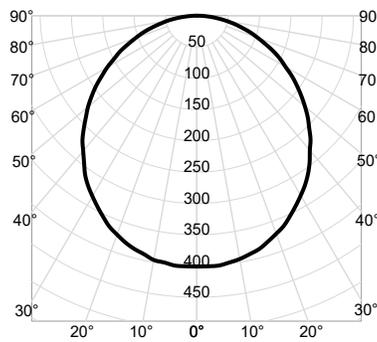
CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pf	80%		20%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance						
				pc	50%	30%	10%	50%	30%	10%							50%	30%	10%	
0°	392	0° - 30°	303	28%	0	119	119	119	116	116	116	111	111	111	6.0	10.9	16.6	0°	73,647	
5°	392	0° - 40°	492	45%	1	104	99	96	101	98	94	97	94	91	8.0	6.1	22.1	45°	65,925	
15°	377	0° - 60°	855	79%	2	90	84	78	89	82	77	85	80	75	10.0	3.9	27.7	55°	62,517	
25°	345	0° - 90°	1,087	100%	3	79	71	65	78	70	64	75	68	63	12.0	2.7	33.2	65°	58,741	
35°	302	90° - 180°	0	0%	4	70	62	55	69	61	54	67	59	54	14.0	2.0	38.7	75°	53,287	
45°	248	0° - 180°	1,087	100%	5	63	54	47	62	53	47	60	52	46	Beam Angle: 108.3° Field Angle: 162.9°			85°	47,472	
55°	191				6	57	48	41	56	47	41	54	46	41						
65°	132				7	51	43	37	51	42	36	49	42	36						
75°	73				8	47	38	33	46	38	32	45	38	32						
85°	22				9	43	35	29	43	35	29	41	34	29						
90°	0				10	40	32	27	39	32	27	38	31	26						

**WF6 LED 27K30K35K MVOLT 90CRI 3000K** Input Watts: 13.4, Delivered Lumens: 1221, LPW: 91.1, S/MH: 1.23, Test No: ISF 36826P108



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pf	80%		20%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance						
				pc	50%	30%	10%	50%	30%	10%							50%	30%	10%	
0°	440	0° - 30°	341	28%	0	119	119	119	116	116	116	111	111	111	6.0	12.2	16.6	0°	82,768	
5°	440	0° - 40°	553	45%	1	104	99	96	101	98	94	97	94	91	8.0	6.9	22.1	45°	74,088	
15°	424	0° - 60°	961	79%	2	90	84	78	89	82	77	85	80	75	10.0	4.4	27.7	55°	70,259	
25°	387	0° - 90°	1,221	100%	3	79	71	65	78	70	64	75	68	63	12.0	3.1	33.2	65°	66,015	
35°	340	90° - 180°	0	0%	4	70	62	55	69	61	54	67	59	54	14.0	2.2	38.7	75°	59,886	
45°	279	0° - 180°	1,221	100%	5	63	54	47	62	53	47	60	52	46	Beam Angle: 108.3° Field Angle: 162.9°			85°	53,351	
55°	214				6	57	48	41	56	47	41	54	46	41						
65°	148				7	51	43	37	51	42	36	49	42	36						
75°	82				8	47	38	33	46	38	32	45	38	32						
85°	25				9	43	35	29	43	35	29	41	34	29						
90°	0				10	40	32	27	39	32	27	38	31	26						

**WF6 LED 30K40K50K MVOLT 90CRI 3000K** Input Watts: 13.8, Delivered Lumens: 1112, LPW: 80.6, S/MH: 1.23, Test No: ISF 36826P110



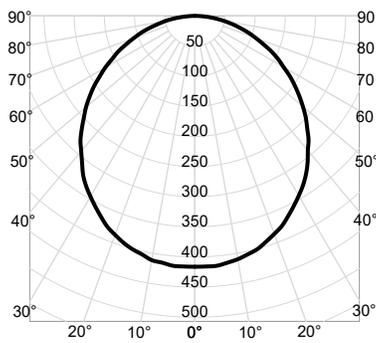
CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pf	80%		20%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance						
				pc	50%	30%	10%	50%	30%	10%							50%	30%	10%	
0°	401	0° - 30°	310	28%	0	119	119	119	116	116	116	111	111	111	6.0	11.1	16.6	0°	75,362	
5°	401	0° - 40°	503	45%	1	104	99	96	101	98	94	97	94	91	8.0	6.3	22.1	45°	67,459	
15°	386	0° - 60°	875	79%	2	90	84	78	89	82	77	85	80	75	10.0	4.0	27.7	55°	63,972	
25°	353	0° - 90°	1,112	100%	3	79	71	65	78	70	64	75	68	63	12.0	2.8	33.2	65°	60,108	
35°	309	90° - 180°	0	0%	4	70	62	55	69	61	54	67	59	54	14.0	2.0	38.7	75°	54,527	
45°	254	0° - 180°	1,112	100%	5	63	54	47	62	53	47	60	52	46	Beam Angle: 108.3° Field Angle: 162.9°			85°	48,577	
55°	195				6	57	48	41	56	47	41	54	46	41						
65°	135				7	51	43	37	51	42	36	49	42	36						
75°	75				8	47	38	33	46	38	32	45	38	32						
85°	23				9	43	35	29	43	35	29	41	34	29						
90°	0				10	40	32	27	39	32	27	38	31	26						

# WF4 WF6 WF8 MVOLT Switchable White 4", 6" or 8" LED Wafer Module

## PHOTOMETRICS

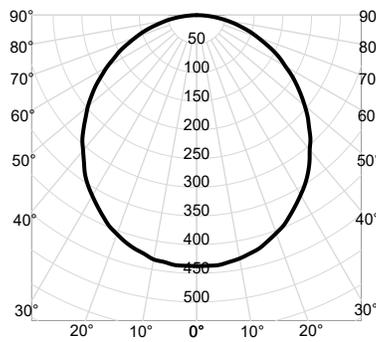
Distribution Curve	Distribution Data	Output Data	Coefficient of Utilization	Illuminance Data at 30" Above Floor for a Single Luminaire
--------------------	-------------------	-------------	----------------------------	--

**WF6 LED 27K30K35K MVOLT 90CRI 3500K** Input Watts: 13.9, Delivered Lumens: 1155, LPW: 83.1, S/MH: 1.23, Test No: ISF 36826P109



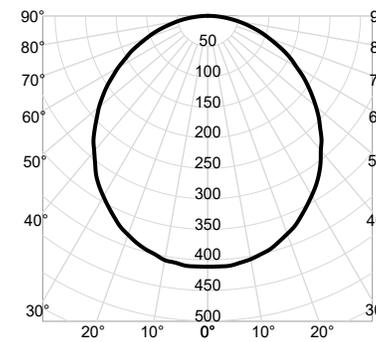
CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pf	pc	80%		20%		70%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance			
				pw	50%	30%	10%	50%	30%	10%	50%	30%	10%				0°	85°		
0°	416	0° - 30°	322	28%	0	119	119	119	116	116	116	111	111	111	6.0	11.6	16.6	0°	78,242	
5°	416	0° - 40°	523	45%	1	104	99	96	101	98	94	97	94	91	8.0	6.5	22.1	45°	70,037	
15°	401	0° - 60°	908	79%	2	90	84	78	89	82	77	85	80	75	10.0	4.2	27.7	55°	66,417	
25°	366	0° - 90°	1,155	100%	3	79	71	65	78	70	64	75	68	63	12.0	2.9	33.2	65°	62,405	
35°	321	90° - 180°	0	0%	4	70	62	55	69	61	54	67	59	54	14.0	2.1	38.7	75°	56,611	
45°	263	0° - 180°	1,155	100%	5	63	54	47	62	53	47	60	52	46				85°	50,434	
55°	203				6	57	48	41	56	47	41	54	46	41						
65°	140				7	51	43	37	51	42	36	49	42	36						
75°	78				8	47	38	33	46	38	32	45	38	32						
85°	23				9	43	35	29	43	35	29	41	34	29						
90°	0				10	40	32	27	39	32	27	38	31	26						

**WF6 LED 30K40K50K MVOLT 90CRI 4000K** Input Watts: 13.4, Delivered Lumens: 1213, LPW: 90.5, S/MH: 1.23, Test No: ISF 36826P111



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pf	pc	80%		20%		70%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance			
				pw	50%	30%	10%	50%	30%	10%	50%	30%	10%				0°	85°		
0°	437	0° - 30°	338	28%	0	119	119	119	116	116	116	111	111	111	6.0	12.1	16.6	0°	82,219	
5°	437	0° - 40°	549	45%	1	104	99	96	101	98	94	97	94	91	8.0	6.8	22.1	45°	73,597	
15°	421	0° - 60°	954	79%	2	90	84	78	89	82	77	85	80	75	10.0	4.4	27.7	55°	69,793	
25°	385	0° - 90°	1,213	100%	3	79	71	65	78	70	64	75	68	63	12.0	3.0	33.2	65°	65,578	
35°	337	90° - 180°	0	0%	4	70	62	55	69	61	54	67	59	54	14.0	2.2	38.7	75°	59,489	
45°	277	0° - 180°	1,213	100%	5	63	54	47	62	53	47	60	52	46				85°	52,998	
55°	213				6	57	48	41	56	47	41	54	46	41						
65°	147				7	51	43	37	51	42	36	49	42	36						
75°	82				8	47	38	33	46	38	32	45	38	32						
85°	25				9	43	35	29	43	35	29	41	34	29						
90°	0				10	40	32	27	39	32	27	38	31	26						

**WF6 LED 30K40K50K MVOLT 90CRI 5000K** Input Watts: 13.9, Delivered Lumens: 1140, LPW: 82.0, S/MH: 1.23, Test No: ISF 36826P112



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pf	pc	80%		20%		70%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance			
				pw	50%	30%	10%	50%	30%	10%	50%	30%	10%				0°	85°		
0°	411	0° - 30°	318	28%	0	119	119	119	116	116	116	111	111	111	6.0	11.4	16.6	0°	77,282	
5°	411	0° - 40°	516	45%	1	104	99	96	101	98	94	97	94	91	8.0	6.4	22.1	45°	69,178	
15°	396	0° - 60°	897	79%	2	90	84	78	89	82	77	85	80	75	10.0	4.1	27.7	55°	65,602	
25°	362	0° - 90°	1,140	100%	3	79	71	65	78	70	64	75	68	63	12.0	2.9	33.2	65°	61,640	
35°	317	90° - 180°	0	0%	4	70	62	55	69	61	54	67	59	54	14.0	2.1	38.7	75°	55,916	
45°	260	0° - 180°	1,140	100%	5	63	54	47	62	53	47	60	52	46				85°	49,815	
55°	200				6	57	48	41	56	47	41	54	46	41						
65°	139				7	51	43	37	51	42	36	49	42	36						
75°	77				8	47	38	33	46	38	32	45	38	32						
85°	23				9	43	35	29	43	35	29	41	34	29						
90°	0				10	40	32	27	39	32	27	38	31	26						

# WF4 WF6 WF8 MVOLT Switchable White 4", 6" or 8" LED Wafer Module

## ENERGY DATA

WF6 LED 27K30K35K MVOLT			
Color Temperature	2700K	3000K	3500K
Lumens	1070	1150	1110
CRI	90	90	90
Rated wattage	14.1	13.4	13.9
Lu/Watts	75.9	85.8	79.9
Min. starting temp	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)
EMI/RFI	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B
Sound rating	Class A Standards	Class A Standards	Class A Standards
Input voltage	120V	120V	120V
Min. power factor	0.98	0.98	0.98
Input frequency	50/60 Hz	50/60 Hz	50/60 Hz
Input power	120V	120V	120V
Input current	0.12A	0.12A	0.12A

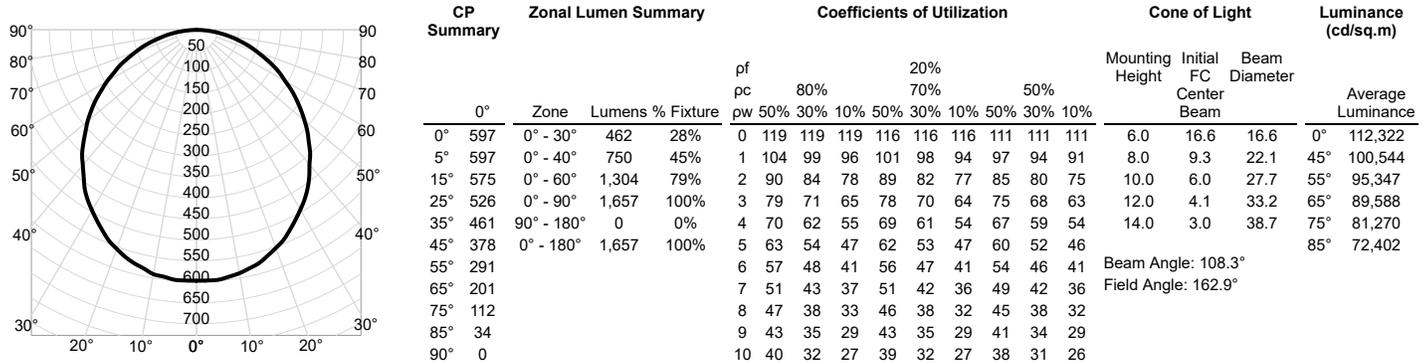
WF6 LED 30K40K50K MVOLT			
Color Temperature	3000K	4000K	5000K
Lumens	1090	1190	1120
CRI	90	90	90
Rated wattage	13.8	13.4	13.9
Lu/Watts	79.0	88.8	80.6
Min. starting temp	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)
EMI/RFI	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B
Sound rating	Class A Standards	Class A Standards	Class A Standards
Input voltage	120V	120V	120V
Min. power factor	0.98	0.98	0.98
Input frequency	50/60 Hz	50/60 Hz	50/60 Hz
Input power	120V	120V	120V
Input current	0.12A	0.12A	0.12A

# WF4 WF6 WF8 MVOLT Switchable White 4", 6" or 8" LED Wafer Module

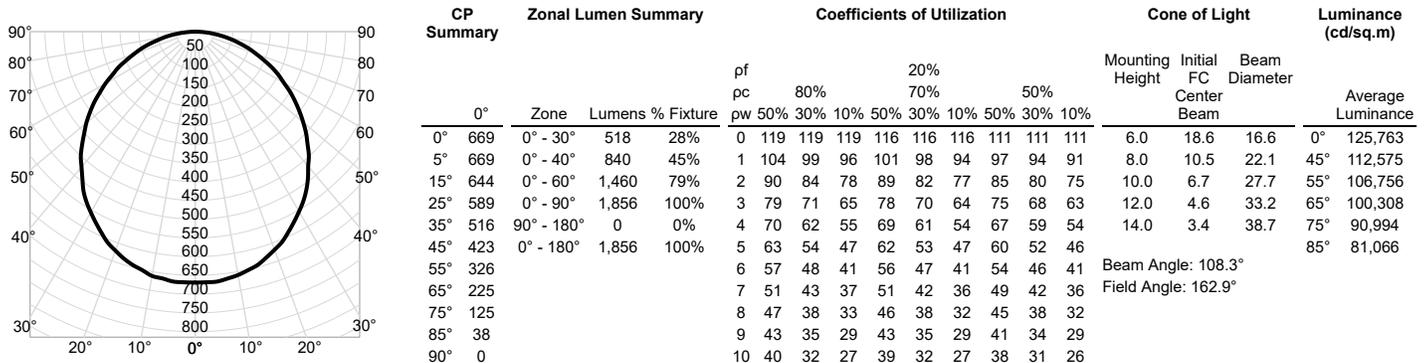
## PHOTOMETRICS

Distribution Curve	Distribution Data	Output Data	Coefficient of Utilization	Illuminance Data at 30" Above Floor for a Single Luminaire
--------------------	-------------------	-------------	----------------------------	--

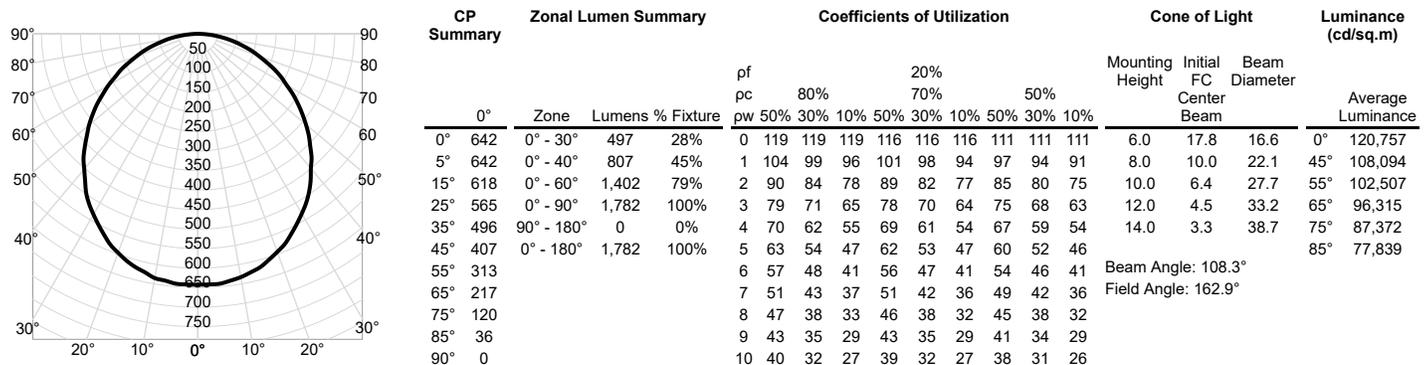
**WF8 LED 27K30K35K MVOLT 90CRI 2700K** Input Watts: 20.7, Delivered Lumens: 1657, LPW: 80.0, S/MH: 1.23, Test No: ISF 36826P113



**WF8 LED 27K30K35K MVOLT 90CRI 3000K** Input Watts: 19.8, Delivered Lumens: 1856, LPW: 93.7, S/MH: 1.23, Test No: ISF 36826P114



**WF8 LED 27K30K35K MVOLT 90CRI 3500K** Input Watts: 20.8, Delivered Lumens: 1782, LPW: 85.7, S/MH: 1.23, Test No: ISF 36826P115



# WF4 WF6 WF8 MVOLT Switchable White 4", 6" or 8" LED Wafer Module

## PHOTOMETRICS

Distribution Curve

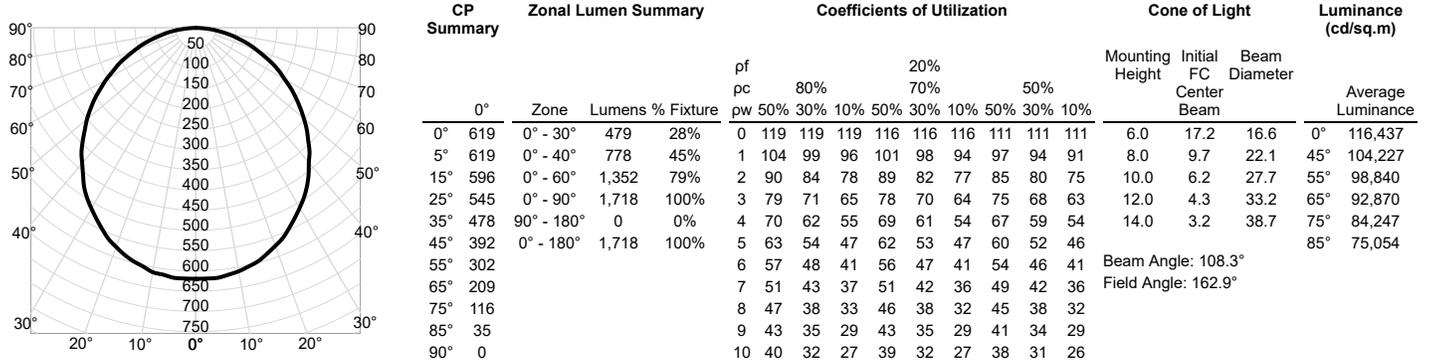
Distribution Data

Output Data

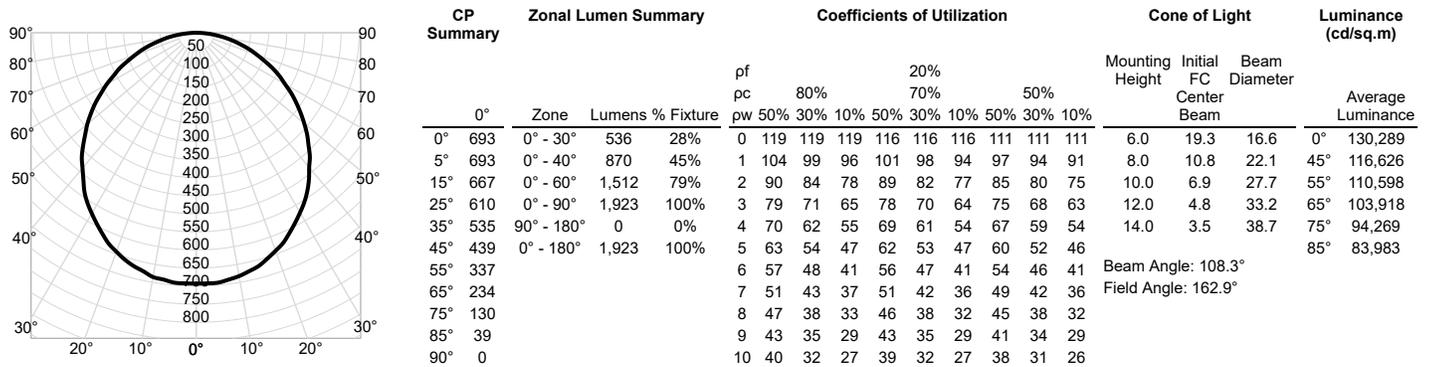
Coefficient of Utilization

Illuminance Data at 30" Above Floor for a Single Luminaire

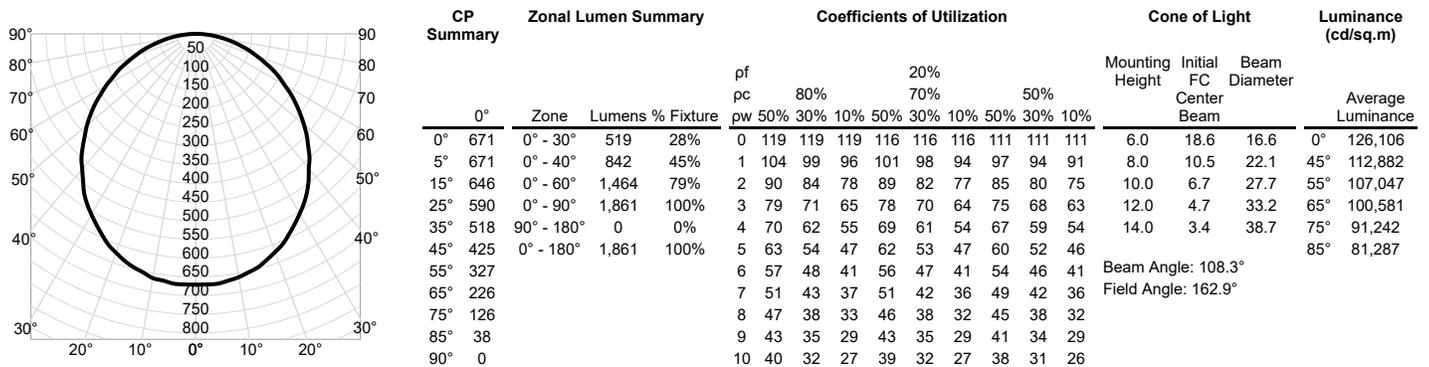
**WF8 LED 30K40K50K MVOLT 90CRI 3000K** Input Watts: 20.4, Delivered Lumens: 1718, LPW: 84.2, S/MH: 1.23, Test No: ISF 36826P116



**WF8 LED 30K40K50K MVOLT 90CRI 4000K** Input Watts: 19.6, Delivered Lumens: 1923, LPW: 98.1, S/MH: 1.23, Test No: ISF 36826P117



**WF8 LED 30K40K50K MVOLT 90CRI 5000K** Input Watts: 20.6, Delivered Lumens: 1861, LPW: 90.3, S/MH: 1.23, Test No: ISF 36826P118



# WF4 WF6 WF8 MVOLT Switchable White 4", 6" or 8" LED Wafer Module

## ENERGY DATA

WF8 LED 27K30K35K MVOLT			
Color Temperature	2700K	3000K	3500K
Lumens	1630	1800	1740
CRI	90	90	90
Rated wattage	20.7	19.8	20.8
Lu/Watts	78.7	90.9	83.7
Min. starting temp	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)
EMI/RFI	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B
Sound rating	Class A Standards	Class A Standards	Class A Standards
Input voltage	120V	120V	120V
Min. power factor	0.98	0.98	0.98
Input frequency	50/60 Hz	50/60 Hz	50/60 Hz
Input power	120V	120V	120V
Input current	0.17A	0.17A	0.17A

WF8 LED 30K40K50K MVOLT			
Color Temperature	3000K	4000K	5000K
Lumens	1690	1850	1820
CRI	90	90	90
Rated wattage	20.4	19.6	20.6
Lu/Watts	82.8	94.4	88.3
Min. starting temp	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)
EMI/RFI	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B
Sound rating	Class A Standards	Class A Standards	Class A Standards
Input voltage	120V	120V	120V
Min. power factor	0.98	0.98	0.98
Input frequency	50/60 Hz	50/60 Hz	50/60 Hz
Input power	120V	120V	120V
Input current	0.17A	0.17A	0.17A

# WF4 WF6 WF8 MVOLT Switchable White 4", 6" or 8" LED Wafer Module

## LIGHTING PERFORMANCE DATA

### WF4



LIGHTING PERFORMANCE DATA DONNÉES SUR LE RENDEMENT DE L'ÉCLAIRAGE	
Light Appearance (CCT) Aspect de la lumière (CCT)	
2700K soft white   blanc doux	730 lumens   70 lumens per watt
3000K warm white   blanc chaud	800 lumens   76 lumens per watt
3500K neutral white   blanc neutre	780 lumens   74 lumens per watt
Watts	10.5
Color Accuracy (CRI) Précision des couleurs (CRI)	90

LIGHTING PERFORMANCE DATA DONNÉES SUR LE RENDEMENT DE L'ÉCLAIRAGE	
Light Appearance (CCT) Aspect de la lumière (CCT)	
3000K warm white   blanc chaud	750 lumens   71 lumens per watt
4000K cool white   blanc froid	810 lumens   77 lumens per watt
5000K daylight   lumière du jour	790 lumens   75 lumens per watt
Watts	10.5
Color Accuracy (CRI) Précision des couleurs (CRI)	90

### WF6



LIGHTING PERFORMANCE DATA DONNÉES SUR LE RENDEMENT DE L'ÉCLAIRAGE	
Light Appearance (CCT) Aspect de la lumière (CCT)	
2700K soft white   blanc doux	1070 lumens   76 lumens per watt
3000K warm white   blanc chaud	1150 lumens   82 lumens per watt
3500K neutral white   blanc neutre	1110 lumens   79 lumens per watt
Watts	14
Color Accuracy (CRI) Précision des couleurs (CRI)	90

LIGHTING PERFORMANCE DATA DONNÉES SUR LE RENDEMENT DE L'ÉCLAIRAGE	
Light Appearance (CCT) Aspect de la lumière (CCT)	
3000K warm white   blanc chaud	1090 lumens   78 lumens per watt
4000K cool white   blanc froid	1190 lumens   85 lumens per watt
5000K daylight   blanc neutre	1120 lumens   80 lumens per watt
Watts	14
Color Accuracy (CRI) Précision des couleurs (CRI)	90

### WF8



LIGHTING PERFORMANCE DATA DONNÉES SUR LE RENDEMENT DE L'ÉCLAIRAGE	
Light Appearance (CCT) Aspect de la lumière (CCT)	
2700K soft white   blanc doux	1630 lumens   82 lumens per watt
3000K warm white   blanc chaud	1800 lumens   90 lumens per watt
3500K neutral white   blanc neutre	1740 lumens   87 lumens per watt
Watts	20.5
Color Accuracy (CRI) Précision des couleurs (CRI)	90

LIGHTING PERFORMANCE DATA DONNÉES SUR LE RENDEMENT DE L'ÉCLAIRAGE	
Light Appearance (CCT) Aspect de la lumière (CCT)	
3000K warm white   blanc chaud	1690 lumens   85 lumens per watt
4000K cool white   blanc froid	1850 lumens   93 lumens per watt
5000K daylight   lumière du jour	1820 lumens   91 lumens per watt
Watts	20.5
Color Accuracy (CRI) Précision des couleurs (CRI)	90

# NUTP13 Series

120VAC Continuous IP65 Rated LED Tape Light

Source: 3.6W/ft. LED  
330lm/ft.

Type

Project

Catalog No.

Notes

## PRODUCT DESCRIPTION

120VAC IP65 Rated LED Tape is the perfect solution for indoor or outdoor applications without the need for LED drivers. Producing up to 330 lumens per foot, tape light can be ordered with cord and plug, or hardwired for dimming. The low profile tape is the ideal for coves, architectural details, under and in cabinets, toe kicks, and back lighting.

## FEATURES

- IP65 rated for wet locations
- 120VAC system - integrated LED driver
- Hardwired or Cord & Plug
- 330 lumens / 3.6W per foot
- Available in a range of color temperatures (2700K, 3000K or 4000K)
- Available in 150' or custom shorter lengths
- Mounting clips included and aluminum channels available

## SPECIFICATION

**Construction:** Continuous LED Tape is cut in the factory to specified lengths (Note: tape can be cut in 4" increments). Power cords and IP65 rated end caps are installed in the factory prior to shipment. IP65 rating is resistant to dust and protected against water projected by a nozzle. *Note: Tape light is non-submersible and cutting tape in the field will void ETL and warranty*

**Power Feed:** Continuous LED Tape comes standard with a 8' cord and plug or 8' hardwire cable (2-wire). Power feed can support lengths up to 150'.

**Mounting:** Optional aluminum channels and mounting clips are available. Recommended mounting clip distance is 1' apart.

**NATL-CIP25A:** 4' Deep Recessed Channel, Aluminum (NUTP13-ADHTAPE included)

**NATL-CIP26A:** 4' Deep Channel, Aluminum (NUTP13-ADHTAPE included)

**NATL-CIP26B:** 4' Deep Channel, Black (NUTP13-ADHTAPE included)

**NATL-CIP26W:** 4' Deep Channel, White (NUTP13-ADHTAPE included)

**NUTP13-ADHTAPE:** 3M™ Adhesive Tape (ordered by foot, 108' max. length)

**NATL-IP6512:** Mounting Clips (Pack of 2), Clear [Two included per foot]

**NATL-IP65/SP:** External Surge Protector (for Hardwire only)

## ELECTRICAL

**Input Voltage:** 120VAC

**Lumens / Wattage:** 330lm / 3.6W per foot

**Color Temperature:** 2700K, 3000K or 4000K

**Color Rendering Index:** 90+ CRI

**Beam Spread:** 110° Wide Flood

**Operating Temperature:** -20°C to 45°C

**Dimming:** Triac

**Run Length:** Minimum of 1' to 150' maximum per power feed

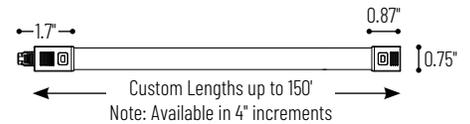
**Surge Protector:** Tape light is recommended to be used with surge protector accessory when installed outdoors or longer run lengths, ordered separately (NATL-IP65/SP). Compatible with hardwired tape light sections only.

## LABELS AND LISTINGS

- ETLus Listed for Wet Location
- IP65 rated
- RoHS compliant
- 3-Year Limited Warranty for Outdoor Applications
- 5-Year Limited Warranty for Indoor Applications



## PRODUCT IMAGES & DIMENSIONS



### NATL-CIP25

4' Deep Channel with Wing (NUTP13-ADHTAPE included)



### NATL-CIP26

4' Deep Channel (NUTP13-ADHTAPE included)



### NATL-IP6512

Mounting Clips (Pack of 2)



### NATL-IP65/SP

External Surge Protector (hardwire only)

## 120VAC Continuous IP65 Rated LED Tape Light

Tape Light Length	Wattage Per Foot	CCT	Power Cord
<b>NUTP13-W150</b> = 150' Roll	<b>-12</b> = 3.6W per foot	<b>-927</b> = 2700K	<b>/HW</b> = 8' Hardwired
<b>NUTP13-WX-Y</b> = Custom Cut (specify length) [X = Feet / Y = Inches] Note: Inches in 4" increments only		<b>-930</b> = 3000K <b>-940</b> = 4000K	<b>/HWSP</b> = 8' Hardwired with Surge Protector <b>/CP</b> = 8' Cord and Plug <b>/CPSP</b> = 8' Cord & Plug with Surge Protector

**NUTP13-W4-0**

## Optional Mounting Accessories

Description
<b>NATL-CIP25A</b> = 4' Deep Recessed Channel, Aluminum (NUTP13-ADHTAPE incl.)
<b>NATL-CIP26A</b> = 4' Deep Channel, Aluminum (NUTP13-ADHTAPE included)
<b>NATL-CIP26B</b> = 4' Deep Channel, Black (NUTP13-ADHTAPE included)
<b>NATL-CIP26W</b> = 4' Deep Channel, White (NUTP13-ADHTAPE included)
<b>NUTP13-ADHTAPE</b> = 3M™ Adhesive Tape (ordered by foot, 108' max.)
<b>NATL-IP6512</b> = Mounting Clips (Pack of Two), Clear [2 included per ft.]
<b>NATL-IP65/SP</b> = External Surge Protector (for Hardwire only)

Example: **NUTP13-W17-4-12-930/CP** = 17'-4" 120VAC Continuous IP65 Rated LED Tape Light, 62.4W, 3000K, 8' Cord and Plug

Example: **NUTP13-W17-12-930/HW** = 17' 120VAC Continuous IP65 Rated LED Tape Light, 61.2W, 3000K, 8' Hardwired

## NUTP13 Series

120VAC Continuous IP65 Rated LED Tape Light Accessories

**Note:** All accessories are factory installed, nonreturnable and noncancelable

Type

Project

Catalog No.

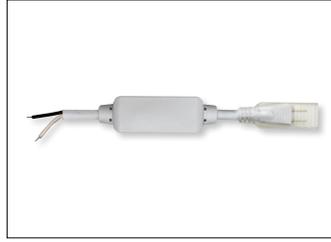
Notes



Hardwire Power Cord (/HW)

8' Hardwire cord used to power 120V tape light and connect to compatible dimmer.

**Factory installed only. Not sold separately.**



Hardwire w/ Surge Protector (/HWSP)

8' Hardwire cord with integral surge protector. Used to power 120V tape light, connect to compatible dimmer and protect from potential surges in voltage.

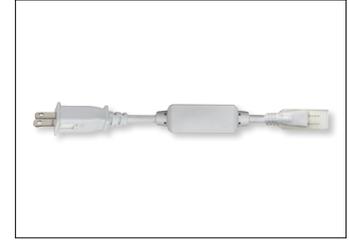
**Factory installed only. Not sold separately.**



Cord & Plug (/CP)

8' Cord and plug used to power 120V tape light.

**Factory installed only. Not sold separately.**



Cord & Plug w/ Surge Protector (/CPSP)

8' Cord and plug with integral surge protector. Used to power 120V tape light and protect from potential surges in voltage.

**Factory installed only. Not sold separately.**

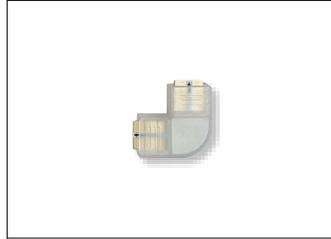


6' Extension Cable

**NATL-IP65/EW-06**

6' Cable used to connect two sections of NUTP13 tape light.

**Factory installed only. Not sold separately.**

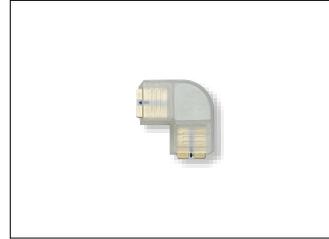


90° Left Connector

**NATL-IP65/C90-L**

90° Left connector used to connect two sections of NUTP13 tape light.

**Factory installed only. Not sold separately.**



90° Right Connector

**NATL-IP65/C90-R**

90° Right connector used to connect two sections of NUTP13 tape light.

**Factory installed only. Not sold separately.**



4' Deep Recessed Channel

**NATL-CIP25A**

Aluminum Finish

Used to mount NUTP13 tape light recessed in a surface. 4' length and field cuttable. Adhesive tape and diffused lens are included. Wing can be used to recess channel. **Sold separately.**

**Note:** Channel is not compatible with the following:

- NATL-IP65/C90-R
- NATL-IP65/C90-L



4' Deep Channel

**NATL-CIP26A**

Aluminum Finish

**NATL-CIP26B**

Black Finish

**NATL-CIP26W**

White Finish

Used to mount NUTP13 tape light to flat surface. 4' length and field cuttable. Adhesive tape and diffused lens are included.

**Sold separately.** **Note:** Channel is not compatible with the following:

- NATL-IP65/C90-R
- NATL-IP65/C90-L

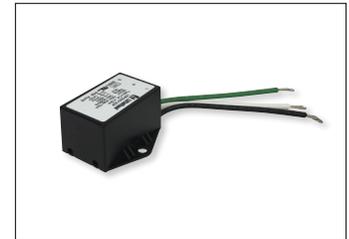


Clear Mounting Clips

**NATL-IP65I2**

Pack of Two

Used to mount NUTP13 tape light to flat surface. Two clips are included per foot with NUTP13 tape light. **Sold separately.**



External Surge Protector

**NATL-IP65/SP**

Hardwire Only (/HW)

Can only be used with Hardwire power cord only (/HW). Must be installed in compliance with electrical codes. **Sold separately.**



3 <sup>RD</sup> Section		
Connector		Tape Light Length
NATL-IP65/C90-L	90° Left	____ Feet
NATL-IP65/C90-R	90° Right	0 inches
NATL-IP65/EW-06	6" Flexible Cable	4 inches
		8 inches

4 <sup>TH</sup> Section		
Connector		Tape Light Length
NATL-IP65/C90-L	90° Left	____ Feet
NATL-IP65/C90-R	90° Right	0 inches
NATL-IP65/EW-06	6" Flexible Cable	4 inches
		8 inches

5 <sup>TH</sup> Section		
Connector		Tape Light Length
NATL-IP65/C90-L	90° Left	____ Feet
NATL-IP65/C90-R	90° Right	0 inches
NATL-IP65/EW-06	6" Flexible Cable	4 inches
		8 inches

6 <sup>TH</sup> Section		
Connector		Tape Light Length
NATL-IP65/C90-L	90° Left	____ Feet
NATL-IP65/C90-R	90° Right	0 inches
NATL-IP65/EW-06	6" Flexible Cable	4 inches
		8 inches

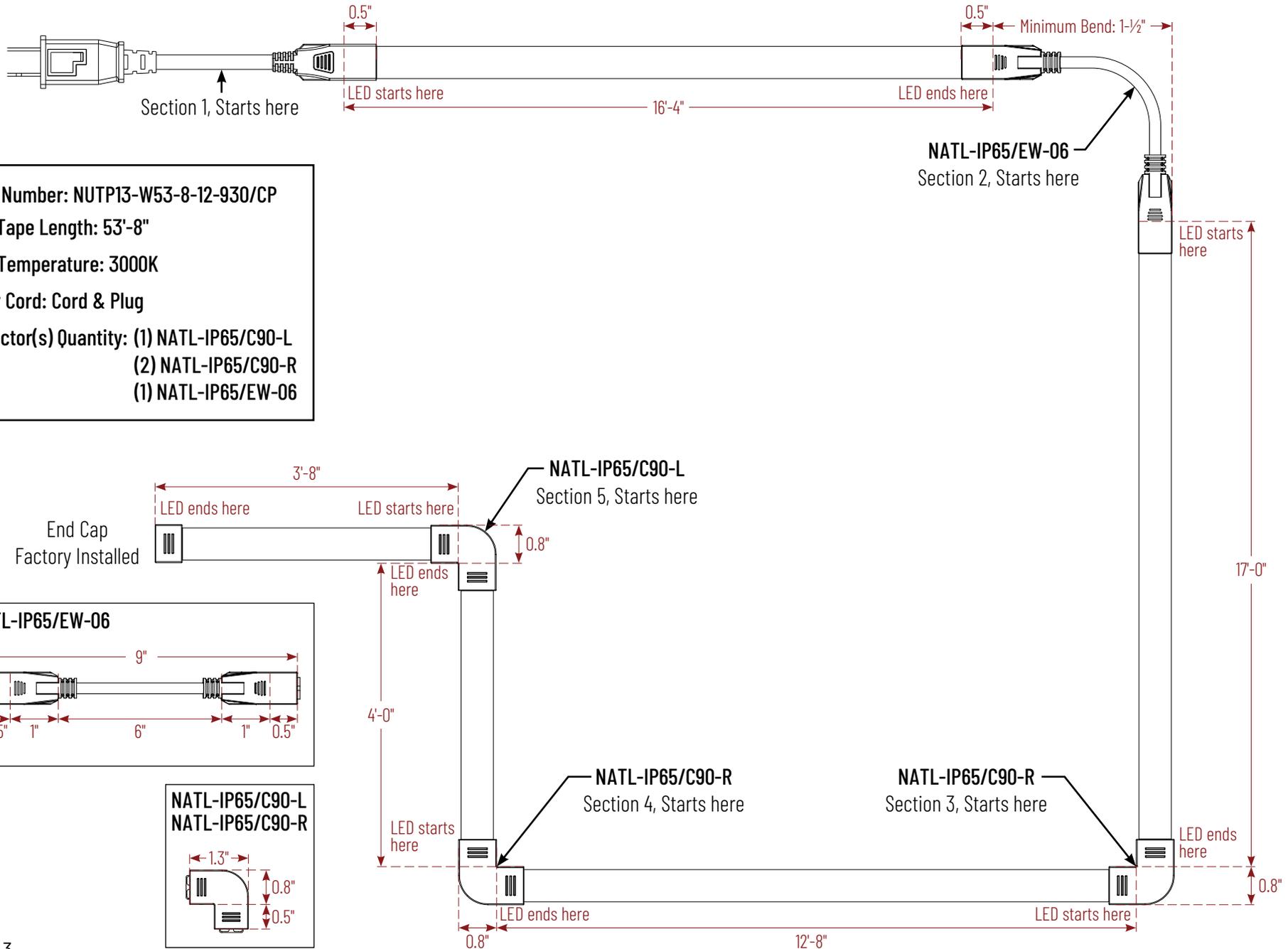
7 <sup>TH</sup> Section		
Connector		Tape Light Length
NATL-IP65/C90-L	90° Left	____ Feet
NATL-IP65/C90-R	90° Right	0 inches
NATL-IP65/EW-06	6" Flexible Cable	4 inches
		8 inches

8 <sup>TH</sup> Section		
Connector		Tape Light Length
NATL-IP65/C90-L	90° Left	____ Feet
NATL-IP65/C90-R	90° Right	0 inches
NATL-IP65/EW-06	6" Flexible Cable	4 inches
		8 inches

**Consult factory for additional sections. 150' maximum tape run length, not including connectors.  
 All NUTP13 layout sheets will be reviewed for compatibility and accuracy by our Tech team.  
 Please allow additional time for order processing.**

# NUTP13 Sample Layout (Tape Light Back View)

NOTE: ALL ORDERS ARE CUSTOM AND NON-RETURNABLE



**Model Number: NUTP13-W53-8-12-930/CP**  
**Total Tape Length: 53'-8"**  
**Color Temperature: 3000K**  
**Power Cord: Cord & Plug**  
**Connector(s) Quantity: (1) NATL-IP65/C90-L**  
**(2) NATL-IP65/C90-R**  
**(1) NATL-IP65/EW-06**

# NUTP13 Series

120VAC Continuous IP65 Rated LED Tape Light

Source: 3.6W/ft. LED  
330lm/ft.

Type

Project

Catalog No.

Notes

## PRODUCT DESCRIPTION

120VAC IP65 Rated LED Tape is the perfect solution for indoor or outdoor applications without the need for LED drivers. Producing up to 330 lumens per foot, tape light can be ordered with cord and plug, or hardwired for dimming. The low profile tape is the ideal for coves, architectural details, under and in cabinets, toe kicks, and back lighting.

## FEATURES

- IP65 rated for wet locations
- 120VAC system - integrated LED driver
- Hardwired or Cord & Plug
- 330 lumens / 3.6W per foot
- Available in a range of color temperatures (2700K, 3000K or 4000K)
- Available in 150' or custom shorter lengths
- Mounting clips included and aluminum channels available

## SPECIFICATION

**Construction:** Continuous LED Tape is cut in the factory to specified lengths (Note: tape can be cut in 4" increments). Power cords and IP65 rated end caps are installed in the factory prior to shipment. IP65 rating is resistant to dust and protected against water projected by a nozzle. *Note: Tape light is non-submersible and cutting tape in the field will void ETL and warranty*

**Power Feed:** Continuous LED Tape comes standard with a 8' cord and plug or 8' hardwire cable (2-wire). Power feed can support lengths up to 150'.

**Mounting:** Optional aluminum channels and mounting clips are available. Recommended mounting clip distance is 1' apart.

**NATL-CIP25A:** 4" Deep Recessed Channel, Aluminum (NUTP13-ADHTAPE included)

**NATL-CIP26A:** 4" Deep Channel, Aluminum (NUTP13-ADHTAPE included)

**NATL-CIP26B:** 4" Deep Channel, Black (NUTP13-ADHTAPE included)

**NATL-CIP26W:** 4" Deep Channel, White (NUTP13-ADHTAPE included)

**NUTP13-ADHTAPE:** 3M™ Adhesive Tape (ordered by foot, 108' max. length)

**NATL-IP6512:** Mounting Clips (Pack of 2), Clear [Two included per foot]

**NATL-IP65/SP:** External Surge Protector (for Hardwire only)

## ELECTRICAL

**Input Voltage:** 120VAC

**Lumens / Wattage:** 330lm / 3.6W per foot

**Color Temperature:** 2700K, 3000K or 4000K

**Color Rendering Index:** 90+ CRI

**Beam Spread:** 110° Wide Flood

**Operating Temperature:** -20°C to 45°C

**Dimming:** Triac

**Run Length:** Minimum of 1' to 150' maximum per power feed

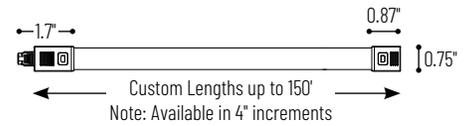
**Surge Protector:** Tape light is recommended to be used with surge protector accessory when installed outdoors or longer run lengths, ordered separately (NATL-IP65/SP). Compatible with hardwired tape light sections only.

## LABELS AND LISTINGS

- ETLus Listed for Wet Location
- IP65 rated
- RoHS compliant
- 3-Year Limited Warranty for Outdoor Applications
- 5-Year Limited Warranty for Indoor Applications



## PRODUCT IMAGES & DIMENSIONS



**NATL-CIP25**  
4" Deep Channel with Wing (NUTP13-ADHTAPE included)



**NATL-CIP26**  
4" Deep Channel (NUTP13-ADHTAPE included)



**NATL-IP6512**  
Mounting Clips (Pack of 2)



**NATL-IP65/SP**  
External Surge Protector (hardwire only)

## 120VAC Continuous IP65 Rated LED Tape Light

Tape Light Length	Wattage Per Foot	CCT	Power Cord
<b>NUTP13-W150</b> = 150' Roll	<b>-12</b> = 3.6W per foot	<b>-927</b> = 2700K	<b>/HW</b> = 8' Hardwired
<b>NUTP13-WX-Y</b> = Custom Cut (specify length) [X = Feet / Y = Inches] Note: Inches in 4" increments only		<b>-930</b> = 3000K <b>-940</b> = 4000K	<b>/HWSP</b> = 8' Hardwired with Surge Protector <b>/CP</b> = 8' Cord and Plug <b>/CPSP</b> = 8' Cord & Plug with Surge Protector

**NUTP13-W6-0**

## Optional Mounting Accessories

Description
<b>NATL-CIP25A</b> = 4" Deep Recessed Channel, Aluminum (NUTP13-ADHTAPE incl.)
<b>NATL-CIP26A</b> = 4" Deep Channel, Aluminum (NUTP13-ADHTAPE included)
<b>NATL-CIP26B</b> = 4" Deep Channel, Black (NUTP13-ADHTAPE included)
<b>NATL-CIP26W</b> = 4" Deep Channel, White (NUTP13-ADHTAPE included)
<b>NUTP13-ADHTAPE</b> = 3M™ Adhesive Tape (ordered by foot, 108' max.)
<b>NATL-IP6512</b> = Mounting Clips (Pack of Two), Clear [2 included per ft.]
<b>NATL-IP65/SP</b> = External Surge Protector (for Hardwire only)

Example: **NUTP13-W17-4-12-930/CP** = 17'-4" 120VAC Continuous IP65 Rated LED Tape Light, 62.4W, 3000K, 8' Cord and Plug

Example: **NUTP13-W17-12-930/HW** = 17' 120VAC Continuous IP65 Rated LED Tape Light, 61.2W, 3000K, 8' Hardwired

## NUTP13 Series

120VAC Continuous IP65 Rated LED Tape Light Accessories

**Note:** All accessories are factory installed, nonreturnable and noncancelable

Type

Project

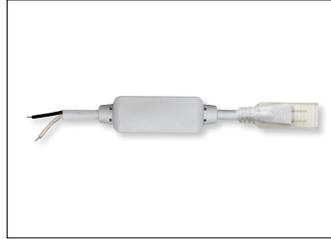
Catalog No.

Notes



Hardwire Power Cord (/HW)

8' Hardwire cord used to power 120V tape light and connect to compatible dimmer.  
**Factory installed only. Not sold separately.**



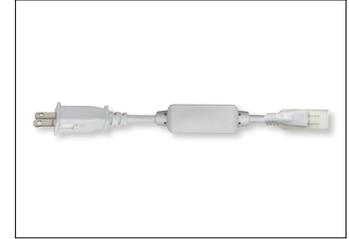
Hardwire w/ Surge Protector (/HWSP)

8' Hardwire cord with integral surge protector. Used to power 120V tape light, connect to compatible dimmer and protect from potential surges in voltage.  
**Factory installed only. Not sold separately.**



Cord & Plug (/CP)

8' Cord and plug used to power 120V tape light.  
**Factory installed only. Not sold separately.**



Cord & Plug w/ Surge Protector (/CPSP)

8' Cord and plug with integral surge protector. Used to power 120V tape light and protect from potential surges in voltage.  
**Factory installed only. Not sold separately.**



6' Extension Cable

**NATL-IP65/EW-06**

6' Cable used to connect two sections of NUTP13 tape light.  
**Factory installed only. Not sold separately.**



90° Left Connector

**NATL-IP65/C90-L**

90° Left connector used to connect two sections of NUTP13 tape light.  
**Factory installed only. Not sold separately.**



90° Right Connector

**NATL-IP65/C90-R**

90° Right connector used to connect two sections of NUTP13 tape light.  
**Factory installed only. Not sold separately.**



4' Deep Recessed Channel

**NATL-CIP25A**

Aluminum Finish

Used to mount NUTP13 tape light recessed in a surface. 4' length and field cuttable. Adhesive tape and diffused lens are included. Wing can be used to recess channel. **Sold separately.**

**Note:** Channel is not compatible with the following:

- NATL-IP65/C90-R
- NATL-IP65/C90-L



4' Deep Channel

**NATL-CIP26A**

Aluminum Finish

**NATL-CIP26B**

Black Finish

**NATL-CIP26W**

White Finish

Used to mount NUTP13 tape light to flat surface. 4' length and field cuttable. Adhesive tape and diffused lens are included. **Sold separately.** **Note:** Channel is not compatible with the following:

**Note:** Channel is not compatible with the following:

- NATL-IP65/C90-R
- NATL-IP65/C90-L

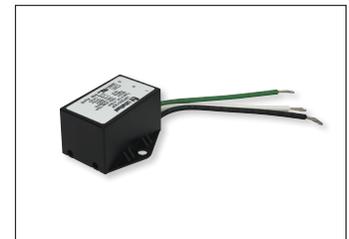


Clear Mounting Clips

**NATL-IP65I2**

Pack of Two

Used to mount NUTP13 tape light to flat surface. Two clips are included per foot with NUTP13 tape light. **Sold separately.**



External Surge Protector

**NATL-IP65/SP**

Hardwire Only (/HW)

Can only be used with Hardwire power cord only (/HW). Must be installed in compliance with electrical codes. **Sold separately.**

# NUTP13 Layout Form

NOTE: ALL NUTP13 ORDERS ARE CUSTOM, NONCANCELABLE, AND NONRETURNABLE

Customer:

Project Name:

Tape CCT: 2700K 3000K 4000K

Total Tape Length:                      Feet                      Inches

Notes:

Order Quantity:

Layout Instructions:

\*\*\* ALL ORDERS ARE CUSTOM, NONCANCELABLE AND NONRETURNABLE \*\*\*

1. Specify power feed
2. Specify length of tape by feet and inches (inches in increments of 0", 4" or 8")
3. For additional sections, proceed to next section (up to 8 sections max., consult with factory for 8+ sections)
4. Last section is terminated with an end cap (maximum tape run of 150' total, not including connectors)

Quote #:

PO #:

Model Number: NUTP13-W - -12-9 /

Connector(s) Quantity: \_\_\_\_\_ NATL-IP65/C90-L

\_\_\_\_\_ NATL-IP65/C90-R

\_\_\_\_\_ NATL-IP65/EW-06

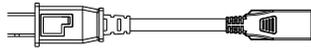
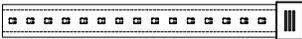
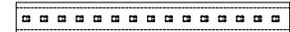
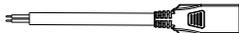
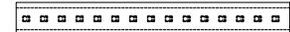
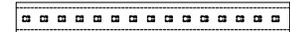
Model Number Instructions: NUTP13-W<sup>feet-inches-12-9cct/power feed</sup>

Feet: 1 to 150

Inches: 4, 8 or blank

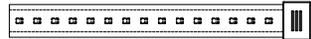
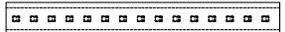
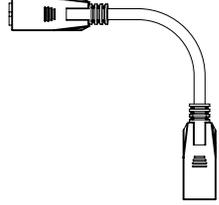
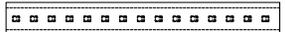
CCT: 27, 30 or 40

Power Feed: CP, CPSP, HW or HWSP

Power Feed	Tape Light
 /CP = 8' Cord & Plug	 Tape Segment with End Cap
 /CPSP = 8' Cord & Plug w/Surge Protector	 Continuous tape segment, for additional sections
 /HW = 8' Hardwired	 Continuous tape segment, for additional sections
 /HWSP = 8' Hardwired w/Surge Protector	 Continuous tape segment, for additional sections

1<sup>ST</sup> Section

Power Feed	Tape Light Length
/CP Cord & Plug	___ Feet
/CPSP Cord & Plug w/ Surge Protector	0 inches
/HW Hardwired	4 inches
/HWSP Hardwired w/ Surge Protector	8 inches

Connector	Tape Light
 NATL-IP65/C90-L 90° Left	 Tape Segment with End Cap
 NATL-IP65/C90-R 90° Right	 Continuous tape segment, for additional sections
 NATL-IP65/EW-06 6" Flexible Cable	 Continuous tape segment, for additional sections

2<sup>ND</sup> Section

Connector	Tape Light Length
NATL-IP65/C90-L 90° Left	___ Feet
NATL-IP65/C90-R 90° Right	0 inches
NATL-IP65/EW-06 6" Flexible Cable	4 inches
	8 inches

3 <sup>RD</sup> Section		
Connector		Tape Light Length
NATL-IP65/C90-L	90° Left	____ Feet
NATL-IP65/C90-R	90° Right	0 inches
NATL-IP65/EW-06	6" Flexible Cable	4 inches
		8 inches

4 <sup>TH</sup> Section		
Connector		Tape Light Length
NATL-IP65/C90-L	90° Left	____ Feet
NATL-IP65/C90-R	90° Right	0 inches
NATL-IP65/EW-06	6" Flexible Cable	4 inches
		8 inches

5 <sup>TH</sup> Section		
Connector		Tape Light Length
NATL-IP65/C90-L	90° Left	____ Feet
NATL-IP65/C90-R	90° Right	0 inches
NATL-IP65/EW-06	6" Flexible Cable	4 inches
		8 inches

6 <sup>TH</sup> Section		
Connector		Tape Light Length
NATL-IP65/C90-L	90° Left	____ Feet
NATL-IP65/C90-R	90° Right	0 inches
NATL-IP65/EW-06	6" Flexible Cable	4 inches
		8 inches

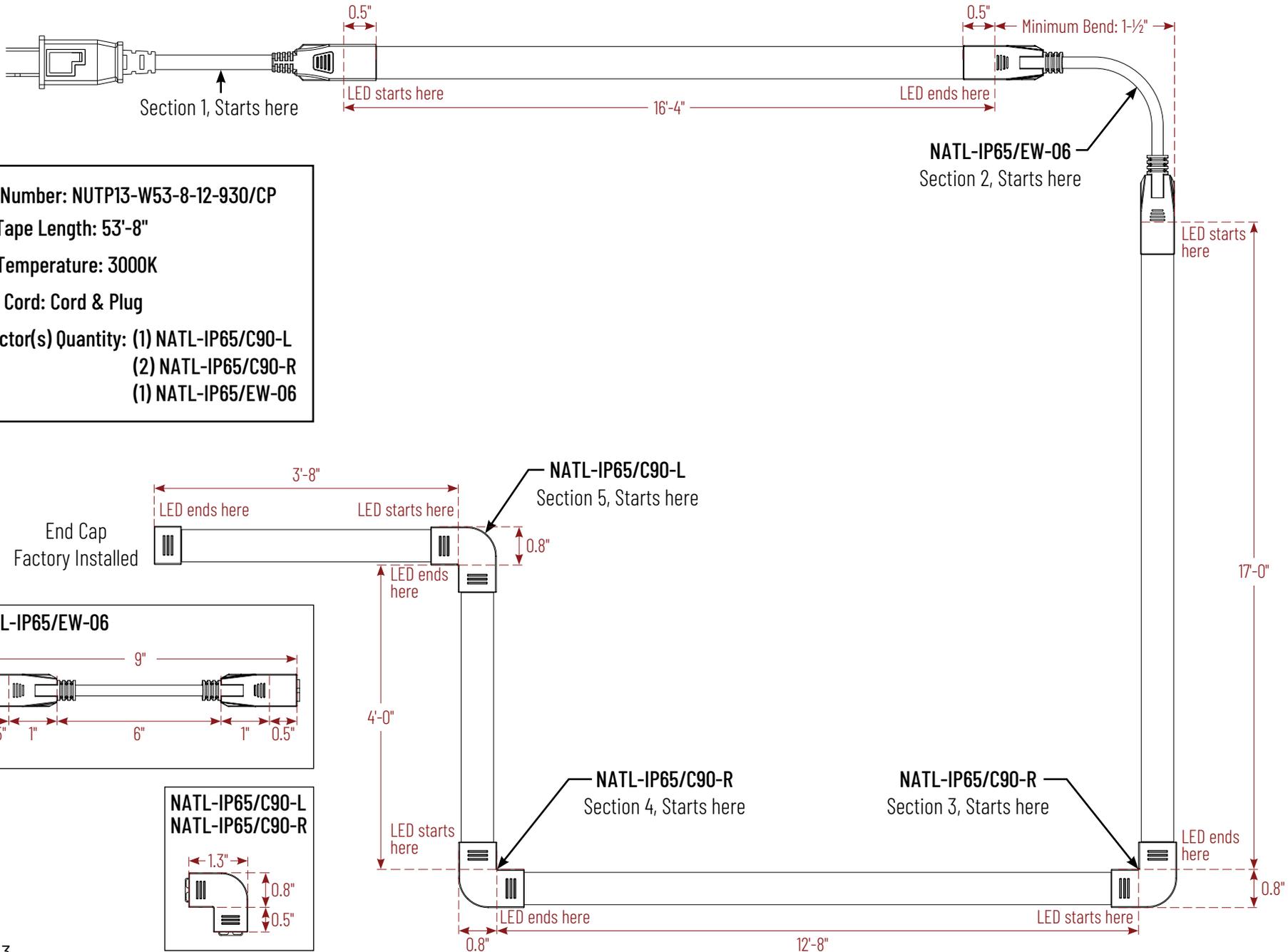
7 <sup>TH</sup> Section		
Connector		Tape Light Length
NATL-IP65/C90-L	90° Left	____ Feet
NATL-IP65/C90-R	90° Right	0 inches
NATL-IP65/EW-06	6" Flexible Cable	4 inches
		8 inches

8 <sup>TH</sup> Section		
Connector		Tape Light Length
NATL-IP65/C90-L	90° Left	____ Feet
NATL-IP65/C90-R	90° Right	0 inches
NATL-IP65/EW-06	6" Flexible Cable	4 inches
		8 inches

**Consult factory for additional sections. 150' maximum tape run length, not including connectors.  
 All NUTP13 layout sheets will be reviewed for compatibility and accuracy by our Tech team.  
 Please allow additional time for order processing.**

# NUTP13 Sample Layout (Tape Light Back View)

NOTE: ALL ORDERS ARE CUSTOM AND NON-RETURNABLE



Model Number: NUTP13-W53-8-12-930/CP  
 Total Tape Length: 53'-8"  
 Color Temperature: 3000K  
 Power Cord: Cord & Plug  
 Connector(s) Quantity: (1) NATL-IP65/C90-L  
 (2) NATL-IP65/C90-R  
 (1) NATL-IP65/EW-06

# NUTP13 Series

120VAC Continuous IP65 Rated LED Tape Light

Source: 3.6W/ft. LED  
330lm/ft.

Type

Project

Catalog No.

Notes

## PRODUCT DESCRIPTION

120VAC IP65 Rated LED Tape is the perfect solution for indoor or outdoor applications without the need for LED drivers. Producing up to 330 lumens per foot, tape light can be ordered with cord and plug, or hardwired for dimming. The low profile tape is the ideal for coves, architectural details, under and in cabinets, toe kicks, and back lighting.

## FEATURES

- IP65 rated for wet locations
- 120VAC system - integrated LED driver
- Hardwired or Cord & Plug
- 330 lumens / 3.6W per foot
- Available in a range of color temperatures (2700K, 3000K or 4000K)
- Available in 150' or custom shorter lengths
- Mounting clips included and aluminum channels available

## SPECIFICATION

**Construction:** Continuous LED Tape is cut in the factory to specified lengths (Note: tape can be cut in 4" increments). Power cords and IP65 rated end caps are installed in the factory prior to shipment. IP65 rating is resistant to dust and protected against water projected by a nozzle. *Note: Tape light is non-submersible and cutting tape in the field will void ETL and warranty*

**Power Feed:** Continuous LED Tape comes standard with a 8' cord and plug or 8' hardwire cable (2-wire). Power feed can support lengths up to 150'.

**Mounting:** Optional aluminum channels and mounting clips are available. Recommended mounting clip distance is 1' apart.

**NATL-CIP25A:** 4' Deep Recessed Channel, Aluminum (NUTP13-ADHTAPE included)

**NATL-CIP26A:** 4' Deep Channel, Aluminum (NUTP13-ADHTAPE included)

**NATL-CIP26B:** 4' Deep Channel, Black (NUTP13-ADHTAPE included)

**NATL-CIP26W:** 4' Deep Channel, White (NUTP13-ADHTAPE included)

**NUTP13-ADHTAPE:** 3M™ Adhesive Tape (ordered by foot, 108' max. length)

**NATL-IP6512:** Mounting Clips (Pack of 2), Clear [Two included per foot]

**NATL-IP65/SP:** External Surge Protector (for Hardwire only)

## ELECTRICAL

**Input Voltage:** 120VAC

**Lumens / Wattage:** 330lm / 3.6W per foot

**Color Temperature:** 2700K, 3000K or 4000K

**Color Rendering Index:** 90+ CRI

**Beam Spread:** 110° Wide Flood

**Operating Temperature:** -20°C to 45°C

**Dimming:** Triac

**Run Length:** Minimum of 1' to 150' maximum per power feed

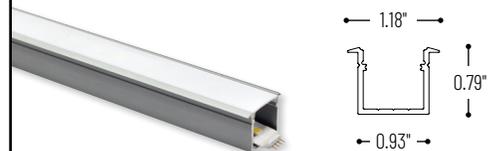
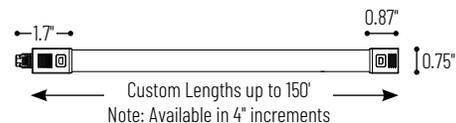
**Surge Protector:** Tape light is recommended to be used with surge protector accessory when installed outdoors or longer run lengths, ordered separately (NATL-IP65/SP). Compatible with hardwired tape light sections only.

## LABELS AND LISTINGS

- ETLus Listed for Wet Location
- IP65 rated
- RoHS compliant
- 3-Year Limited Warranty for Outdoor Applications
- 5-Year Limited Warranty for Indoor Applications



## PRODUCT IMAGES & DIMENSIONS



**NATL-CIP25**  
4' Deep Channel with Wing (NUTP13-ADHTAPE included)



**NATL-CIP26**  
4' Deep Channel (NUTP13-ADHTAPE included)



**NATL-IP6512**  
Mounting Clips (Pack of 2)



**NATL-IP65/SP**  
External Surge Protector (hardwire only)

## 120VAC Continuous IP65 Rated LED Tape Light

Tape Light Length	Wattage Per Foot	CCT	Power Cord
<b>NUTP13-W150</b> = 150' Roll	<b>-12</b> = 3.6W per foot	<b>-927</b> = 2700K	<b>/HW</b> = 8' Hardwired
<b>NUTP13-WX-Y</b> = Custom Cut (specify length) [X = Feet / Y = Inches] Note: Inches in 4" increments only		<b>-930</b> = 3000K <b>-940</b> = 4000K	<b>/HWSP</b> = 8' Hardwired with Surge Protector <b>/CP</b> = 8' Cord and Plug <b>/CPSP</b> = 8' Cord & Plug with Surge Protector

**NUTP13-W8-0**

## Optional Mounting Accessories

Description
<b>NATL-CIP25A</b> = 4' Deep Recessed Channel, Aluminum (NUTP13-ADHTAPE incl.)
<b>NATL-CIP26A</b> = 4' Deep Channel, Aluminum (NUTP13-ADHTAPE included)
<b>NATL-CIP26B</b> = 4' Deep Channel, Black (NUTP13-ADHTAPE included)
<b>NATL-CIP26W</b> = 4' Deep Channel, White (NUTP13-ADHTAPE included)
<b>NUTP13-ADHTAPE</b> = 3M™ Adhesive Tape (ordered by foot, 108' max.)
<b>NATL-IP6512</b> = Mounting Clips (Pack of Two), Clear [2 included per ft.]
<b>NATL-IP65/SP</b> = External Surge Protector (for Hardwire only)

Example: **NUTP13-W17-4-12-930/CP** = 17'-4" 120VAC Continuous IP65 Rated LED Tape Light, 62.4W, 3000K, 8' Cord and Plug

Example: **NUTP13-W17-12-930/HW** = 17' 120VAC Continuous IP65 Rated LED Tape Light, 61.2W, 3000K, 8' Hardwired

## NUTP13 Series

120VAC Continuous IP65 Rated LED Tape Light Accessories

**Note:** All accessories are factory installed, nonreturnable and noncancelable

Type

Project

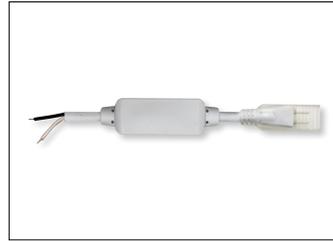
Catalog No.

Notes



Hardwire Power Cord (/HW)

8' Hardwire cord used to power 120V tape light and connect to compatible dimmer.  
**Factory installed only. Not sold separately.**



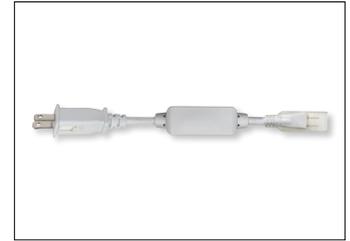
Hardwire w/ Surge Protector (/HWSP)

8' Hardwire cord with integral surge protector. Used to power 120V tape light, connect to compatible dimmer and protect from potential surges in voltage.  
**Factory installed only. Not sold separately.**



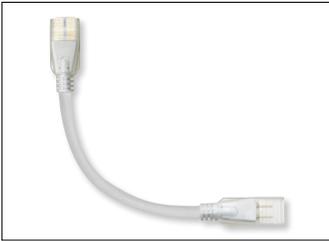
Cord & Plug (/CP)

8' Cord and plug used to power 120V tape light.  
**Factory installed only. Not sold separately.**



Cord & Plug w/ Surge Protector (/CPSP)

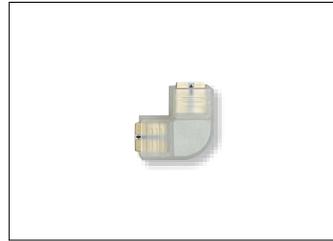
8' Cord and plug with integral surge protector. Used to power 120V tape light and protect from potential surges in voltage.  
**Factory installed only. Not sold separately.**



6' Extension Cable

**NATL-IP65/EW-06**

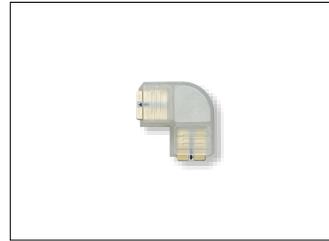
6' Cable used to connect two sections of NUTP13 tape light.  
**Factory installed only. Not sold separately.**



90° Left Connector

**NATL-IP65/C90-L**

90° Left connector used to connect two sections of NUTP13 tape light.  
**Factory installed only. Not sold separately.**



90° Right Connector

**NATL-IP65/C90-R**

90° Right connector used to connect two sections of NUTP13 tape light.  
**Factory installed only. Not sold separately.**



4' Deep Recessed Channel

**NATL-CIP25A**

Aluminum Finish

Used to mount NUTP13 tape light recessed in a surface. 4' length and field cuttable. Adhesive tape and diffused lens are included. Wing can be used to recess channel. **Sold separately.**

**Note:** Channel is not compatible with the following:

- NATL-IP65/C90-R
- NATL-IP65/C90-L



4' Deep Channel

**NATL-CIP26A**

Aluminum Finish

**NATL-CIP26B**

Black Finish

**NATL-CIP26W**

White Finish

Used to mount NUTP13 tape light to flat surface. 4' length and field cuttable. Adhesive tape and diffused lens are included. **Sold separately.** **Note:** Channel is not compatible with the following:

**Note:** Channel is not compatible with the following:

- NATL-IP65/C90-R
- NATL-IP65/C90-L



Clear Mounting Clips

**NATL-IP65I2**

Pack of Two

Used to mount NUTP13 tape light to flat surface. Two clips are included per foot with NUTP13 tape light. **Sold separately.**



External Surge Protector

**NATL-IP65/SP**

Hardwire Only (/HW)

Can only be used with Hardwire power cord only (/HW). Must be installed in compliance with electrical codes. **Sold separately.**

# NUTP13 Layout Form

NOTE: ALL NUTP13 ORDERS ARE CUSTOM, NONCANCELABLE, AND NONRETURNABLE

Customer:

Project Name:

Tape CCT: 2700K 3000K 4000K

Total Tape Length:                      Feet                      Inches

Notes:

Order Quantity:

Layout Instructions:

\*\*\* ALL ORDERS ARE CUSTOM, NONCANCELABLE AND NONRETURNABLE \*\*\*

1. Specify power feed
2. Specify length of tape by feet and inches (inches in increments of 0", 4" or 8")
3. For additional sections, proceed to next section (up to 8 sections max., consult with factory for 8+ sections)
4. Last section is terminated with an end cap (maximum tape run of 150' total, not including connectors)

Quote #:

PO #:

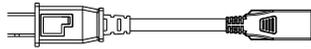
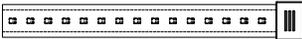
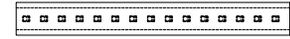
Model Number: NUTP13-W - -12-9 /

Connector(s) Quantity: \_\_\_\_\_ NATL-IP65/C90-L

\_\_\_\_\_ NATL-IP65/C90-R

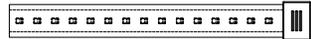
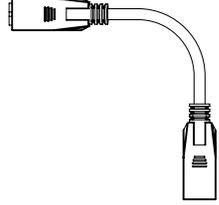
\_\_\_\_\_ NATL-IP65/EW-06

Model Number Instructions: NUTP13-W<sup>feet-inches-12-9cct/power feed</sup>  
 Feet: 1 to 150  
 Inches: 4, 8 or blank  
 CCT: 27, 30 or 40  
 Power Feed: CP, CPSP, HW or HWSP

Power Feed	Tape Light
 /CP = 8' Cord & Plug	 Tape Segment with End Cap
 /CPSP = 8' Cord & Plug w/Surge Protector	 Continuous tape segment, for additional sections
 /HW = 8' Hardwired	
 /HWSP = 8' Hardwired w/Surge Protector	

1<sup>ST</sup> Section

Power Feed	Tape Light Length
/CP Cord & Plug	____ Feet
/CPSP Cord & Plug w/ Surge Protector	0 inches
/HW Hardwired	4 inches
/HWSP Hardwired w/ Surge Protector	8 inches

Connector	Tape Light
 NATL-IP65/C90-L 90° Left	 Tape Segment with End Cap
 NATL-IP65/C90-R 90° Right	
 NATL-IP65/EW-06 6" Flexible Cable	

2<sup>ND</sup> Section

Connector	Tape Light Length
NATL-IP65/C90-L 90° Left	____ Feet
NATL-IP65/C90-R 90° Right	0 inches
NATL-IP65/EW-06 6" Flexible Cable	4 inches
	8 inches

3 <sup>RD</sup> Section		
Connector		Tape Light Length
NATL-IP65/C90-L	90° Left	____ Feet
NATL-IP65/C90-R	90° Right	0 inches
NATL-IP65/EW-06	6" Flexible Cable	4 inches
		8 inches

4 <sup>TH</sup> Section		
Connector		Tape Light Length
NATL-IP65/C90-L	90° Left	____ Feet
NATL-IP65/C90-R	90° Right	0 inches
NATL-IP65/EW-06	6" Flexible Cable	4 inches
		8 inches

5 <sup>TH</sup> Section		
Connector		Tape Light Length
NATL-IP65/C90-L	90° Left	____ Feet
NATL-IP65/C90-R	90° Right	0 inches
NATL-IP65/EW-06	6" Flexible Cable	4 inches
		8 inches

6 <sup>TH</sup> Section		
Connector		Tape Light Length
NATL-IP65/C90-L	90° Left	____ Feet
NATL-IP65/C90-R	90° Right	0 inches
NATL-IP65/EW-06	6" Flexible Cable	4 inches
		8 inches

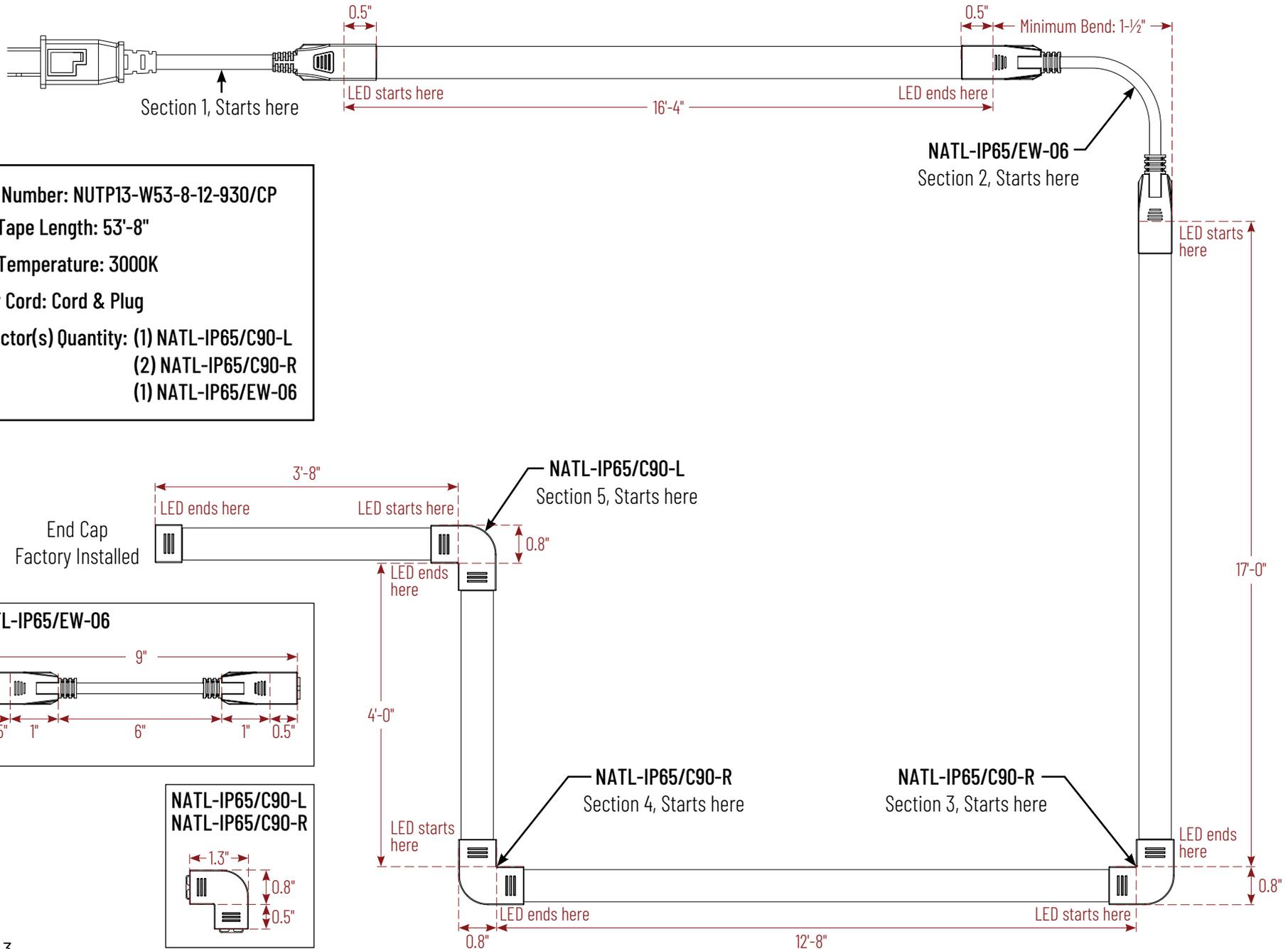
7 <sup>TH</sup> Section		
Connector		Tape Light Length
NATL-IP65/C90-L	90° Left	____ Feet
NATL-IP65/C90-R	90° Right	0 inches
NATL-IP65/EW-06	6" Flexible Cable	4 inches
		8 inches

8 <sup>TH</sup> Section		
Connector		Tape Light Length
NATL-IP65/C90-L	90° Left	____ Feet
NATL-IP65/C90-R	90° Right	0 inches
NATL-IP65/EW-06	6" Flexible Cable	4 inches
		8 inches

**Consult factory for additional sections. 150' maximum tape run length, not including connectors.  
 All NUTP13 layout sheets will be reviewed for compatibility and accuracy by our Tech team.  
 Please allow additional time for order processing.**

# NUTP13 Sample Layout (Tape Light Back View)

NOTE: ALL ORDERS ARE CUSTOM AND NON-RETURNABLE



**Model Number: NUTP13-W53-8-12-930/CP**  
**Total Tape Length: 53'-8"**  
**Color Temperature: 3000K**  
**Power Cord: Cord & Plug**  
**Connector(s) Quantity: (1) NATL-IP65/C90-L**  
**(2) NATL-IP65/C90-R**  
**(1) NATL-IP65/EW-06**