

Project		Catalog #		Type	
Prepared by		Notes		Date	



# NeoRay

## Omni

Surface and Suspended  
Direct, Direct/Indirect LED

### Typical Applications

• Office • Education • Healthcare • Hospitality • Retail • Transit

### Interactive Menu

- Order Information page 2
- Photometric Data page 5-6
- Energy and Performance Data page 7-10
- Control Systems page 11
- Product Warranty

### Product Certification



### Product Features

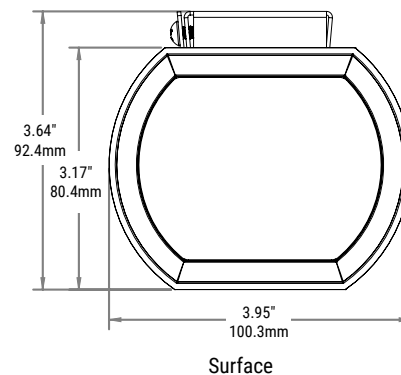
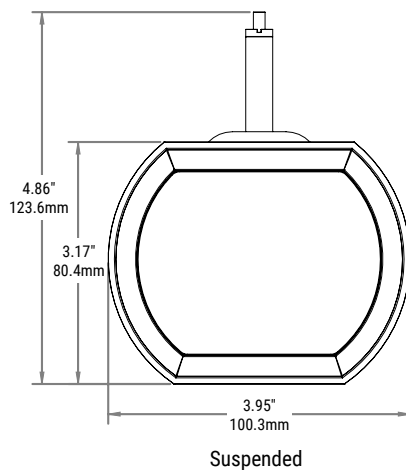


### Top Product Features

- Flush Rounded Luminaire with Soft Design Features
- Compact 4in Diameter with Full Performance
- Direct Output up to 1,250 Lm/ft and Indirect Output up to 1,500 Lm/ft
- Flush Lens for Direct Illumination
- Discreet glare reducing louvered baffle options in black or white
- Available with indirect batwing optic
- Replaceable Decorative End Cap Plates

### Dimensions

Cross Section Views



## Order Information

SAMPLE ORDER NUMBER: **OMN4DIP-SR8F0-100D50US935-FLLFLL-1DUDD-WWC04JBW**

Domestic Preference	Body		Pattern	
	Series	Direction	Pattern Type	Length
<b>BAA=BAA</b>	<b>OMN4=Omni 4in Diameter</b>	<b>DP = Direct Only Pendant/ Suspended</b> <b>DS = Direct Only Surface</b> <b>DIP = Pendant Direct &amp; Indirect</b>	<b>SR = Straight Run</b> <b>PT = Pattern (Custom Pattern)*</b>	<b>4F0 = 4ft</b> <b>6F0 = 6ft</b> <b>8F0 = 8ft</b> <b>12F0 = 12ft</b> <b>_F0= Specify Length</b>
<b>Notes</b> Only product configurations with this "BAA" designation are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.			<b>Notes</b> *Custom Pattern (PT) available soon as ETO (Engineered To Order). Please contact factory for availability	<b>Notes</b> Run lengths are in 2ft minimum increments

Output				Optics	
Direct Output (Lm/ft)	Indirect Output (Lm/ft)	Performance	CRI/CCT	Direct Optics	Indirect Optics
<b>50D=500 Lm/ft Direct</b> <b>75D=750 Lm/ft Direct</b> <b>100D=1000 Lm/ft Direct</b> <b>125D=1250 Lm/ft Direct</b> <b>_D=Custom Lm/ft Direct</b>	<b>[Blank]=None</b> <b>25U=250 Lm/ft Indirect</b> <b>50U=500 Lm/ft Indirect</b> <b>75U=750 Lm/ft Indirect</b> <b>100U=1000 Lm/ft Indirect</b> <b>125U=1250 Lm/ft Indirect</b> <b>150U=1500 Lm/ft Indirect</b> <b>_U=Custom Lm/ft Indirect</b>	<b>S=Standard</b>	<b>830=3000K, 80CRI</b> <b>835=3500K, 80CRI</b> <b>840=4000K, 80CRI</b>  <b>930=3000K, 90CRI</b> <b>935=3500K, 90CRI</b> <b>940=4000K, 90CRI</b>	<b>FLL=Frosted Lens (Diffuse)</b> <b>CLB=Batwing Lens</b> <b>BBM=Black Discreet Baffle with Medium Distribution Optic (80°)</b> <b>WBM=White Discreet Baffle with Medium Distribution Optic (80°)</b>	<b>[Blank]=None</b> <b>OOB = Batwing (Optic)</b>
<b>Notes</b> Specify Custom Lumen Output to the nearest 10Lm/ft Min = 150Lm/ft Max = 1,500Lm/ft	<b>Notes</b>	<b>Notes</b>	<b>Notes</b> Discreet Baffle is only available with 90CRI	<b>Notes</b>	<b>Notes</b> Batwing (OOB) is a Batwing Optic with Open top (ie. no dust cover) Leave blank with Direct Only luminaire

Electrical			
Circuiting	Emergency Options	Voltage	Controls
<b>1 = Single Circuit</b> <b>2 = Dual Circuit*</b> <b>S = Secondary Circuit</b>	<b>D=None (Standard)</b> <b>E=Emergency Circuit</b> <b>B=6W Emergency Battery Pack</b> <b>T=UL924 Bypass Relay Device</b>	<b>U=Universal (120V-277V)</b> <b>3=347V*</b>	<b>DD = Standard 0-10V (1%-100%)</b> <b>SR = Sensor Ready (1%-100%)</b>  <b>WaveLinx Wireless</b> <b>WPS = WaveLinx Pro Integrated Sensor (formerly WAA)</b> <b>WLS = WaveLinx Lite Integrated Sensor (formerly WAB)</b>  <b>Other</b> <b>SLT=Fifth Light DALI (1%-100%)</b> <b>LDE=Lutron Hi-Lume EcoSystem (1%-100%)</b> <b>LWI = Enlighted Integrated Sensor</b>
<b>Notes</b> *Dual Circuit (2) allows for independent Direct and Indirect Circuits	<b>Notes</b> Battery operates entire downlight portion of 4ft and 6ft luminaire or 4ft sections of 8ft and 12ft luminaire. Emergency Battery in a 4ft Direct/Indirect (DI) luminaire is available with Standard 0-10V (DD) Controls option only.	<b>Notes</b> *347V (3) available with Standard 0-10V (DD) Controls option only	<b>Notes</b> Integrated Sensors combined with Emergency Circuit require one UL924 Bypass Relay per emergency fixture.  Integrated Sensors are available with Single Circuit (1) option only

Options					Special Options
Body Finish	End Plate Finish	Suspension Type	Ceiling Type	Mounting Hardware Color	Special Options
<b>W = White</b> <b>S = Silver</b> <b>B = Black</b>  <b>RR = Real Red</b> <b>OO = Oasis Orange</b> <b>YY = Yippee Yellow</b> <b>GG= Gracious Green</b> <b>CC = Cyprus Cyan</b> <b>TT = Totally Turquoise</b> <b>BB = Biosphere Blue</b> <b>PP = Perfect Purple</b> <b>VV = Vacation Violet</b> <b>MM = Magic Magenta</b>  <b>C = Custom Color (RAL)</b> <b>CM = Custom Color (Match)</b>	<b>W = White</b> <b>S = Silver</b> <b>B = Black</b>  <b>RR = Real Red</b> <b>OO = Oasis Orange</b> <b>YY = Yippee Yellow</b> <b>GG= Gracious Green</b> <b>CC = Cyprus Cyan</b> <b>TT = Totally Turquoise</b> <b>BB = Biosphere Blue</b> <b>PP = Perfect Purple</b> <b>VV = Vacation Violet</b> <b>MM = Magic Magenta</b>  <b>C = Custom Color (RAL)</b> <b>CM = Custom Color (Match)</b>	<b>C04 = 4ft Aircraft Cable</b> <b>C10 = 10ft Aircraft Cable</b> <b>C20 = 20ft Aircraft Cable</b> <b>C30 = 30ft Aircraft Cable</b> <b>SMT = Surface Mount (Ceiling)*</b>	<b>T1 = 15/16in Flat T-Grid</b> <b>T9 = 9/16in Flat T-Grid</b> <b>TS = 9/16in Dimensional T-Grid (Slotted/Interlude)</b> <b>JB = J-Box / Structure</b>	<b>W = White</b> <b>B = Black</b>	
<b>Notes</b> Custom Colors (C and CM) are available as ETO	<b>Notes</b> Custom Colors (C and CM) are available as ETO	<b>Notes</b> *Surface Mount (SMT) available with Direct Surface (S) luminaire and J-Box/Structure (JB) Ceiling Type only	<b>Notes</b> All T-Grid options (T1, T9, and TS) are compatible with Flat Lay-In Panels and Tegalur Panels		

## Product Specifications

### Construction

- Single-piece extruded aluminum housing
- 4" circular profile
- Die-formed 20 gauge cold rolled steel LED tray
- Driver accessible from above while fixture is mounted

### End Caps

- Die cast aluminum end caps attach mechanically to the end of the fixture without exposed fasteners
- Decorative end plates attach to end cap without fasteners and can be swapped in the field to vary aesthetics
- Standard end cap adds 1" at each end

### Lengths

- Available in 4-ft, 6-ft, 8-ft, and 12-ft sections
- See table on page 4 for standard continuous row length breakdowns

### Finish

- Electrostatically applied polyester powder coat paint
- White, silver, and black finishes are standard.
- RAL custom colors are available

### Mounting

- Aircraft cable mounts on 4', 6', 8', or 12' centers, equal to the respective unit length
- Aircraft cable mount centers are 1/2" from ends of fixture/run
- Can be adjusted along the length of the fixture to match existing mounting points. See Installation Instructions for more details
- Minimum suspension height from ceiling to top of fixture is 5"
- Can be adjusted along the width at mounting bracket for balancing.
- All sections are continuously wired with push-in connectors for fast installation
- Fixtures can be joined for straight continuous runs using supplied alignment plates and internal cast joiners
- Refer to installation instructions for various ceiling interface details

### Optics

- **FL**: Frosted extruded snap-in lens
- **CLB**: Extruded snap-in lens with batwing light shaping optic to give a wide distribution
- **BBM**(Black) and **WBM**(White): Injection molded, contoured, segmented baffles with for low UGR values and improved visual comfort.
- Precision engineered acrylic TIR optics on upper and lower LED light engines for optimal light distribution and uniformity
- **OOB**: 110° peak candela angle in indirect distribution
- **BBM, WBM**: 80° beam angle direct distribution with 45° cutoff

### LED and Light Engine

- LEDs are available in 3000K, 3500K, 4000K
- CRI options of either ≥80CRI or ≥90CRI
- Lumen output will be affected - please refer to the lumen adjustment factor tables
- TM-21 life for Omni non-baffled at 60,000 hours up to L99, Reported L70 is >60,000 hours, and Calculated L70 is 235,000 hours
- TM-21 life for Omni baffled at 60,000 hours up to L85, Reported L70 is >60,000 hours, and Calculated L70 is 135,000 hours
- Drivers available in 120-277V and 347V

### Integrated Controls

- 0-10V dimming to 1% standard
- WaveLinx sensor compatible for IoT capability
- Enlighted sensor compatible for IoT capability
- DALI 2.0 and Lutron dimming available

### Emergency Options

- Emergency option operates entire downlight portion of 4ft and 6ft luminaire or 4ft sections of 8ft and 12ft luminaire
- Optional 6-watt 120-277V integral emergency battery illuminates a 4 ft. down-light section
- 90-minute backup period for code compliance
- Test switch/indicator button located on the top side of the luminaire
- For approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack (100 lm/W x 6 = 600 lumens)
- Battery is self-testing
- UL 924 emergency/generator transfer options available

### Weight

- < 3.75 lbs. per foot

### Compliance

- cULus listed for damp locations
- Tested to IESNA LM-79 and LM-80
- RoHS compliant
- Stated life per TM21 standards
- Can be used for State of California Title 24 high efficacy luminaire

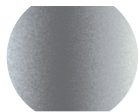
### Warranty

- Five year warranty standard
- [www.cooperlighting.com/legal](http://www.cooperlighting.com/legal)

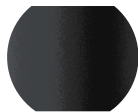
## Standard Finish Options



W - White



S - Silver



B - Black



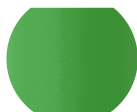
RR - Real Red  
RAL 3020  
Gloss



OO - Oasis Orange  
RAL 2004  
Gloss



YY - Yippee Yellow  
RAL 1018  
Gloss



GG - Gracious Green  
RAL 6018  
Gloss



CC - Cyprus Cyan  
RAL 6027  
Gloss



TT - Totally Turquoise  
RAL 5018  
Gloss



BB - Bioshere Blue  
RAL 5017  
Gloss



PP - Perfect Purple  
RAL 4005  
Gloss



VV - Vacation Violet  
RAL 4008  
Gloss



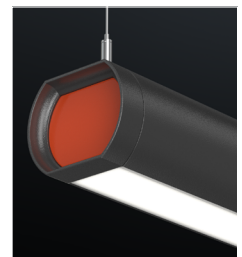
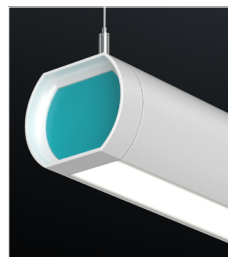
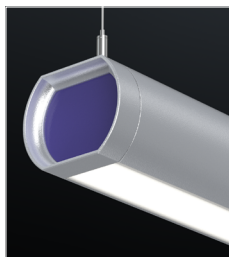
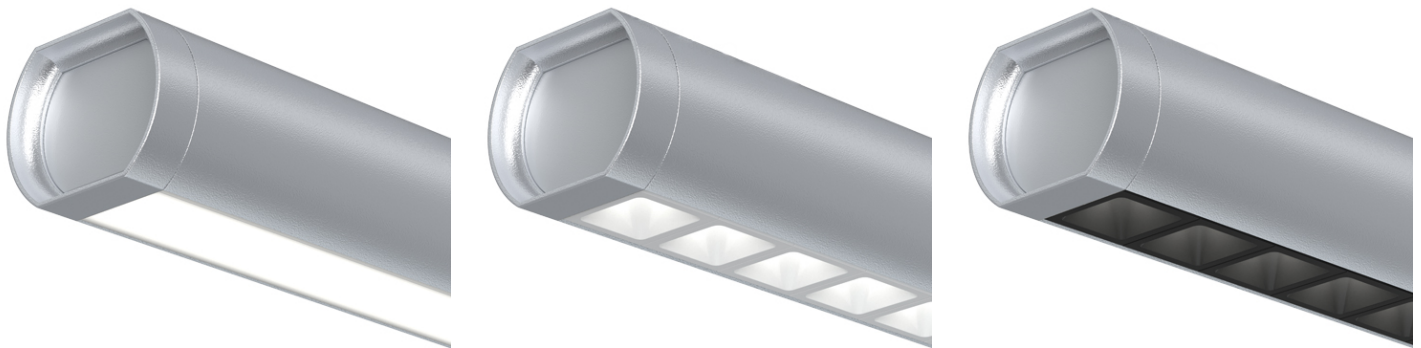
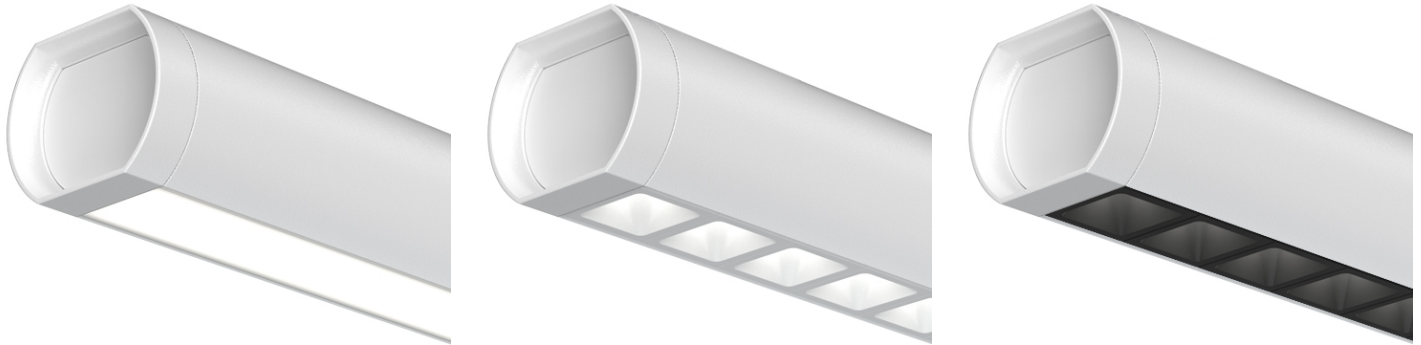
MM - Magic Magenta  
RAL 4010  
Gloss

RAL & custom colors available as ETO



Endplate Pair Accessories		
	White	OMN-ENDPLT-PAIR-W
	Silver	OMN-ENDPLT-PAIR-S
	Black	OMN-ENDPLT-PAIR-B
	Real Red	OMN-ENDPLT-PAIR-RR
	Oasis Orange	OMN-ENDPLT-PAIR-OO
	Yippee Yellow	OMN-ENDPLT-PAIR-YY
	Gracious Green	OMN-ENDPLT-PAIR-GG
	Cyprus Cyan	OMN-ENDPLT-PAIR-CC
	Totally Turquoise	OMN-ENDPLT-PAIR-TT
	Biosphere Blue	OMN-ENDPLT-PAIR-BB
	Perfect Purple	OMN-ENDPLT-PAIR-PP
	Vacation Violet	OMN-ENDPLT-PAIR-VV
	Magic Magenta	OMN-ENDPLT-PAIR-MM

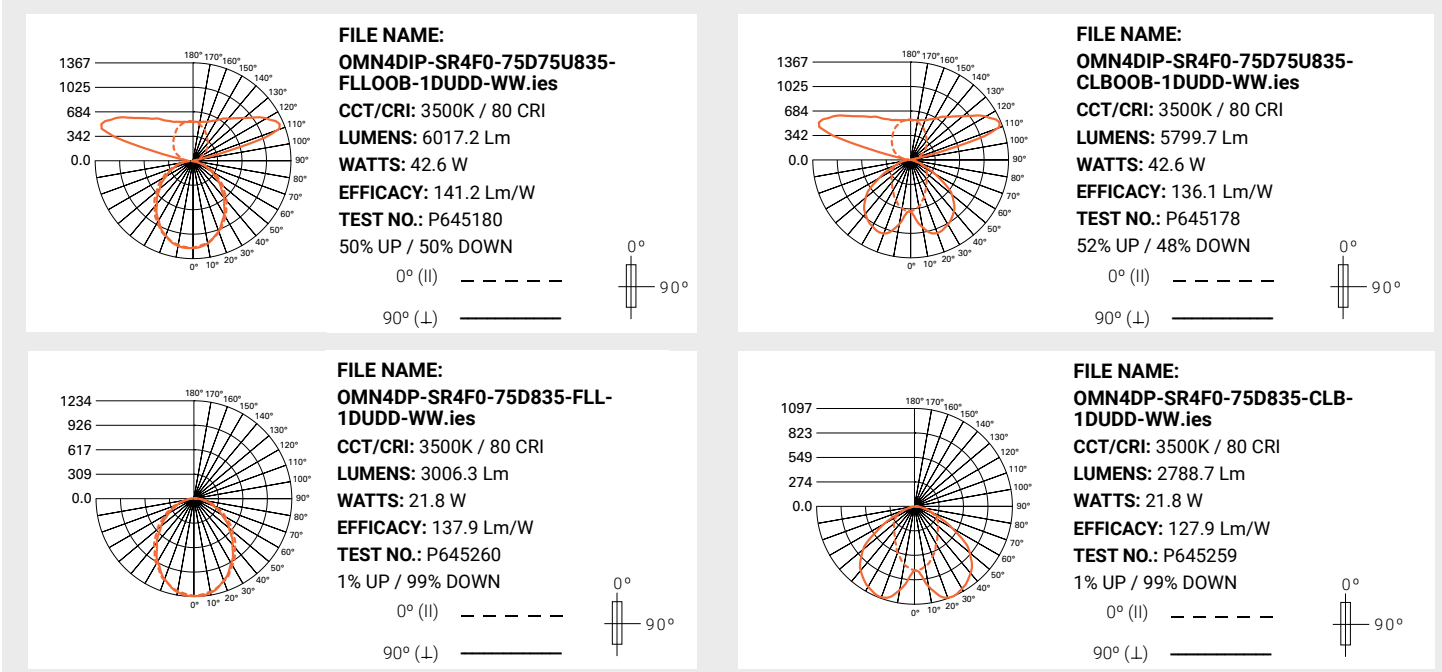
## Optics & Finish Options



Note: All Finish and Shielding combinations are available. Not all are shown. Custom color housing finishes are also available.

## Photometric Data - Omni Non Baffled

[View IES files](#)

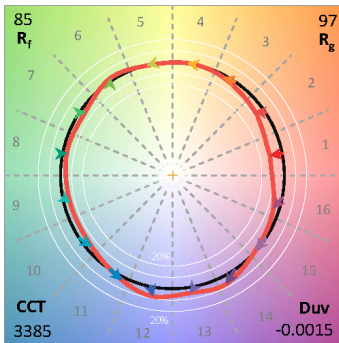


Note: Refer to IES files for more product data.

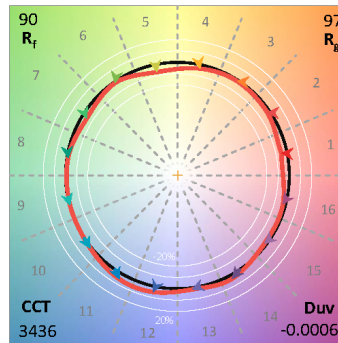
### Color Data (3500K)

		80CRI	90CRI
TM-30-15	R <sub>f</sub>	85	90.1
	R <sub>g</sub>	96.6	97.4
CRI/CIE	R <sub>a</sub>	84.6	94.3
	R <sub>9</sub>	16.1	59.8

### 80CRI



### 90CRI



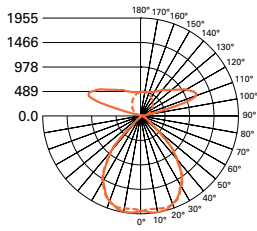
### Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours) <sup>(1)</sup>	TM-21 Lumen Reported L70 (Hours) <sup>(1)</sup>	TM-21 Lumen Calculated L70 (Hours) <sup>(2)</sup>
25°C	>99%	>60,000	235,000

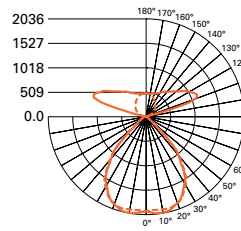
Notes: (1) Supported by IES TM-21 standards. (2) Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, that explains proper use of IES TM-21 and LM-80.

## Photometric Data - Omni Baffled

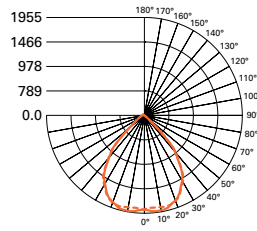
View IES files



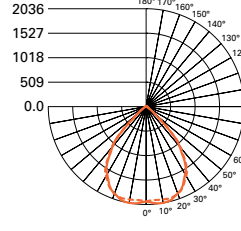
**FILE NAME:**  
**OMN4DIP-SR4F0-75D75U935-BBM00B-1DUDD-WW.ies**  
**CCT/CRI:** 3500K / 90 CRI  
**LUMENS:** 5496 Lm  
**WATTS:** 48.7 W  
**EFFICACY:** 112.9 Lm/W  
**TEST NO.:** P645191  
**47% UP / 53% DOWN**  
 0° (H) -----  
 90° (L) -----



**FILE NAME:**  
**OMN4DIP-SR4F0-75D75U935-WBMOOB-1DUDD-WW.ies**  
**CCT/CRI:** 3500K / 90 CRI  
**LUMENS:** 5745.8 Lm  
**WATTS:** 48.7 W  
**EFFICACY:** 118 Lm/W  
**TEST NO.:** P645196  
**45% UP / 55% DOWN**  
 0° (H) -----  
 90° (L) -----



**FILE NAME:**  
**OMN4DP-SR4F0-75D935-BBM-1DUDD-WW.ies**  
**CCT/CRI:** 3500K / 90 CRI  
**LUMENS:** 2930.2 Lm  
**WATTS:** 27.9 W  
**EFFICACY:** 105 Lm/W  
**TEST NO.:** P645267  
**0% UP / 100% DOWN**  
 0° (H) -----  
 90° (L) -----



**FILE NAME:**  
**OMN4DP-SR4F0-75D935-WBM-1DUDD-WW.ies**  
**CCT/CRI:** 3500K / 90 CRI  
**LUMENS:** 3180 Lm  
**WATTS:** 27.9 W  
**EFFICACY:** 114 Lm/W  
**TEST NO.:** P645270  
**0% UP / 100% DOWN**  
 0° (H) -----  
 90° (L) -----



Note: Refer to IES files for more product data.

### Luminance Data

Luminance (cd/sq.m) - Average 0-Deg. (3500K) - Black Baffle				
Average Candela Degrees	Direct Lumen Package			
	050D	075D	100D	125D
45	7088	10555	14002	17714
55	811	1207	1601	2027
65	31	46	61	76
75	0	0	0	0
85	148	222	296	371

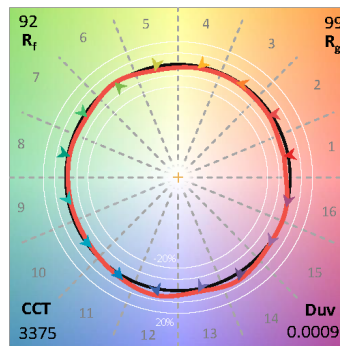
Note: Refer to IES files for more product data.

Luminance (cd/sq.m) - Average 0-Deg. (3500K) - White Baffle				
Average Candela Degrees	Direct Lumen Package			
	050D	075D	100D	125D
45	7964	11861	15733	19904
55	1441	2146	2846	3601
65	642	957	1268	1605
75	649	968	1283	1622
85	741	1097	1467	1853

### Color Data (3500K)

		90CRI
TM-30-15	R <sub>f</sub>	92
	R <sub>g</sub>	99.5
CRI/CIE	R <sub>a</sub>	94.3
	R <sub>9</sub>	74.3

### 90CRI



### Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours) <sup>(1)</sup>	TM-21 Lumen Reported L70 (Hours) <sup>(1)</sup>	TM-21 Lumen Calculated L70 (Hours) <sup>(2)</sup>
25°C	>85%	>60,000	135,000

**Notes:** (1) Supported by IES TM-21 standards. (2) Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, that explains proper use of IES TM-21 and LM-80.

## Energy and Performance Data - Direct Frosted Lens (FLL) and Indirect Batwing Optic (OOB)

Omni Performance - 80CRI, 3500K <sup>6</sup>								Glare	
Direct Lumen Package	Indirect Lumen Package	Direct Lm/ft	Indirect Lm/ft	Total Lm/ft	Total W/ft	Lm/W	% Distribution Direct/Indirect	Max UGR (4H 8H 70/50/20)	Max Luminance (45-90 deg)
50D	-	505	3	507	3.6	141.9	99.5% / 0.5%	24.1	10905
	25U	505	259	764	5.7	135.3	66% / 34%	21.5	10905
	50U	505	498	1,003	7.2	138.9	50% / 50%	20.1	10905
	75U	505	755	1,260	8.8	143.6	40% / 60%	19.1	10905
	100U	505	996	1,501	10.8	138.7	34% / 66%	18.3	10905
	125U	505	1,253	1,758	13.1	133.9	29% / 71%	17.7	10905
	150U	505	1,497	2,003	15.7	127.4	25% / 75%	17.1	10905
75D	-	748	4	752	5.5	137.9	99.5% / 0.5%	25.5	16157
	25U	748	261	1,009	7.5	134.0	74% / 26%	23.5	16157
	50U	748	500	1,248	9.1	137.1	60% / 40%	22.4	16157
	75U	748	756	1,504	10.7	141.2	50% / 50%	21.5	16157
	100U	748	998	1,746	12.7	137.5	43% / 57%	20.8	16157
	125U	748	1,254	2,002	15.0	133.5	37% / 63%	20.1	16157
	150U	748	1,499	2,247	17.6	127.7	33% / 67%	19.6	16157
100D	-	989	5	994	7.5	133.0	99.5% / 0.5%	26.5	21379
	25U	990	262	1,251	9.6	131.0	79% / 21%	24.9	21379
	50U	990	501	1,490	11.1	134.0	66% / 34%	23.9	21379
	75U	990	757	1,747	12.7	137.8	57% / 43%	23.1	21379
	100U	990	999	1,989	14.7	135.0	50% / 50%	22.4	21379
	125U	990	1,255	2,245	17.0	131.9	44% / 56%	21.9	21379
	150U	990	1,500	2,490	19.6	126.9	40% / 60%	21.4	21379
125D	-	1,261	6	1,268	10.0	126.8	99.5% / 0.5%	27.3	27252
	25U	1,261	263	1,525	12.1	126.3	83% / 17%	26.0	27252
	50U	1,261	502	1,764	13.7	129.2	72% / 28%	25.2	27252
	75U	1,262	759	2,020	15.2	132.9	62% / 38%	24.4	27252
	100U	1,262	1,000	2,262	17.3	131.1	56% / 44%	23.8	27252
	125U	1,262	1,257	2,518	19.6	128.8	50% / 50%	23.3	27252
	150U	1,262	1,501	2,763	22.2	124.7	46% / 54%	22.9	27252

**KEY:**

	Meets WELL v2
TEXT	Meets LEED v4.1

**Notes:**

- (1) UGR values per CIE 190:2010 with 4H, 8H, Reflectance: 70% Ceiling, 50% Wall, 20% Ref. Plane
- (2) For other UGR data for room or reflective ceiling plans please see technical data on website.
- (3) Luminance measured at 45-90 degrees from nadir.
- (4) UGR and Luminance values that meet WELL v2 L04 requirements for Managing Glare are shown with green highlighted cell. (UGR < 16, Luminance < 6,000, Indirect-only)
- (5) UGR and Luminance values that meet LEED v4.1 requirements for Glare Control are shown with green text. (UGR < 19, Luminance < 7,000, Indirect-only)
- (6) For technical data of other configurations please see photometric section on website or click link at top-right

**Lumen Adjustment & Melanopic Ratios**

CCT	3000K		3500K		4000K	
CRI	80+	90+	80+	90+	80+	90+
Lumen Multiplier	0.999	0.843	1.000	0.884	1.029	0.924
Melanopic Ratio	0.518	0.582	0.597	0.661	0.661	0.735

**Example Calculation:**

025U-075D / 3500K / 80 CRI  
Lumen Output selected = 1008 lms/ft

3500K / 90 CRI Desired  
Lumen Adjustment Factor = 0.884

Adjusted Lumen Output = 1008 lms/ft x 0.884 = 891 lms/ft

Lens Lumen Multipliers (applied to Direct/Down output)- Vaulta Lenses	
Batwing Distribution Lens	0.925

## Energy and Performance Data - Direct Batwing (CLB) and Indirect Batwing Optic (OOB)

Omni Performance - 80CRI, 3500K								Glare	
Direct Lumen Package	Indirect Lumen Package	Direct Lm/ft	Indirect Lm/ft	Total Lm/ft	Total W/ft	Lm/W	% Distribution Direct/Indirect	Max UGR (4H 8H 70/50/20)	Max Luminance (45-90 deg)
50D	-	467	4	471	3.6	131.6	99% / 1%	23.4	13721
	25U	467	261	728	5.7	128.8	64% / 36%	20.6	13721
	50U	467	500	967	7.2	133.8	48% / 52%	19.2	13721
	75U	467	756	1,223	8.8	139.4	38% / 62%	18.1	13721
	100U	467	998	1,465	10.8	135.3	32% / 68%	17.3	13721
	125U	467	1,254	1,721	13.1	131.2	27% / 73%	16.7	13721
	150U	467	1,499	1,966	15.7	125.0	24% / 76%	16.1	13721
75D	-	691	6	697	5.5	127.9	99% / 1%	24.7	20331
	25U	692	263	954	7.5	126.8	72% / 28%	22.7	20331
	50U	692	502	1,193	9.1	131.1	58% / 42%	21.5	20331
	75U	692	758	1,450	10.7	136.1	48% / 52%	20.5	20331
	100U	692	1,000	1,691	12.7	133.2	41% / 59%	19.8	20331
	125U	692	1,256	1,948	15.0	129.9	36% / 64%	19.2	20331
	150U	692	1,501	2,193	17.6	124.6	32% / 68%	18.7	20331
100D	-	915	8	922	7.5	123.4	99% / 1%	25.7	26900
	25U	915	265	1,179	9.6	123.5	78% / 22%	24.0	26900
	50U	915	504	1,418	11.1	127.5	65% / 36%	23.0	26900
	75U	915	760	1,675	12.7	132.2	55% / 45%	22.1	26900
	100U	915	1,001	1,917	14.7	130.2	48% / 52%	21.5	26900
	125U	915	1,258	2,173	17.0	127.7	42% / 58%	20.9	26900
	150U	915	1,503	2,418	19.6	123.2	38% / 62%	20.4	26900
125D	-	1,166	10	1,176	10.0	117.6	99% / 1%	26.5	34289
	25U	1,166	267	1,433	12.1	118.7	81% / 19%	25.2	34289
	50U	1,166	506	1,672	13.7	122.5	70% / 30%	24.3	34289
	75U	1,166	762	1,929	15.2	126.9	60% / 40%	23.5	34289
	100U	1,166	1,004	2,170	17.3	125.8	54% / 46%	22.9	34289
	125U	1,167	1,260	2,427	19.6	124.1	48% / 52%	22.4	34289
	150U	1,167	1,505	2,671	22.2	120.6	44% / 56%	21.9	34289

**KEY:**

	Meets WELL v2
TEXT	Meets LEED v4.1

**Notes:**

- (1) UGR values per CIE 190:2010 with 4H, 8H, Reflectance: 70% Ceiling, 50% Wall, 20% Ref. Plane
- (2) For other UGR data for room or reflective ceiling plans please see technical data on website.
- (3) Luminance measured at 45-90 degrees from nadir.
- (4) UGR and Luminance values that meet WELL v2 L04 requirements for Managing Glare are shown with green highlighted cell. (UGR < 16, Luminance < 6,000, Indirect-only)
- (5) UGR and Luminance values that meet LEED v4.1 requirements for Glare Control are shown with green text. (UGR < 19, Luminance < 7,000, Indirect-only)
- (6) For technical data of other configurations please see photometric section on website or click link at top-right

### Lumen Adjustment & Melanopic Ratios

CCT	3000K	3500K	4000K
CRI	90+	90+	90+
Lumen Multiplier	0.987	1.000	1.028
Melanopic Ratio	0.569	0.620	0.773

**Example Calculation:**

025U-075D / 3500K / 90 CRI  
Lumen Output selected = 898 lms/ft

3000K / 90 CRI Desired  
Lumen Adjustment Factor = 0.987

Adjusted Lumen Output = 898 lms/ft x 0.987 = 886 lms/ft

## Energy and Performance Data - Direct Black Discreet Baffle w/ Medium Optic (BBM) and Indirect Batwing Optic (OOB)

Omni Performance - 90CRI, 3500K								Glare	
Direct Lumen Package	Indirect Lumen Package	Direct Lm/ft	Indirect Lm/ft	Total Lm/ft	Total W/ft	Lm/W	% Distribution Direct/Indirect	Max UGR (4H 8H 70/50/20)	Max Luminance (45-90 deg)
50D	-	492	0	492	4.6	108.1	100% / 0%	1.1	8330
	25U	492	220	712	6.6	107.4	69% / 31%	0.0	8330
	50U	492	420	912	8.2	111.3	54% / 46%	0.0	8330
	75U	492	641	1,133	9.8	116.2	43% / 57%	0.0	8330
	100	492	852	1,344	11.8	113.9	37% / 63%	0.0	8330
	125	492	1,095	1,588	14.1	112.6	31% / 69%	0.0	8330
	150	492	1,250	1,742	16.7	104.3	28% / 72%	0.0	8330
75D	-	733	0	733	7.0	105.0	100% / 0%	2.4	12405
	25U	733	220	952	9.1	105.2	77% / 23%	0.5	12405
	50U	733	420	1,153	10.6	108.5	64% / 36%	0.0	12405
	75U	733	641	1,374	12.2	112.9	53% / 47%	0.0	12405
	100U	733	852	1,585	14.2	111.4	46% / 54%	0.0	12405
	125U	733	1,095	1,828	16.5	110.6	40% / 60%	0.0	12405
	150U	733	1,250	1,983	19.1	103.7	37% / 63%	0.0	12405
100D	-	972	0	972	9.5	102.0	100% / 0%	3.4	16455
	25U	972	220	1,192	11.6	102.7	82% / 18%	1.9	16455
	50U	972	420	1,392	13.2	105.7	70% / 30%	0.9	16455
	75U	972	641	1,613	14.7	109.6	60% / 40%	0.1	16455
	100U	972	852	1,824	16.8	108.7	53% / 47%	0.0	16455
	125U	972	1,095	2,068	19.1	108.4	47% / 53%	0.0	16455
	150U	972	1,250	2,222	21.7	102.5	44% / 56%	0.0	16455
125D	-	1,229	0	1,229	12.4	99.3	100% / 0%	4.2	20817
	25U	1,229	220	1,449	14.5	100.3	85% / 15%	3.0	20817
	50U	1,230	420	1,650	16.0	102.9	75% / 25%	2.1	20817
	75U	1,230	641	1,871	17.6	106.4	66% / 34%	1.4	20817
	100U	1,230	852	2,081	19.6	106.1	59% / 41%	0.8	20817
	125U	1,230	1,095	2,325	21.9	106.1	53% / 47%	0.2	20817
	150U	1,230	1,250	2,480	24.5	101.1	50% / 50%	0.0	20817

**KEY:**

	Meets WELL v2
TEXT	Meets LEED v4.1

**Notes:**

- (1) UGR values per CIE 190:2010 with 4H, 8H, Reflectance: 70% Ceiling, 50% Wall, 20% Ref. Plane
- (2) For other UGR data for room or reflective ceiling plans please see technical data on website.
- (3) Luminance measured at 45-90 degrees from nadir.
- (4) UGR and Luminance values that meet WELL v2 L04 requirements for Managing Glare are shown with green highlighted cell. (UGR < 16, Luminance < 6,000, Indirect-only)
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**Lumen Adjustment & Melanopic Ratios**

CCT	3000K	3500K	4000K
CRI	90+	90+	90+
Lumen Multiplier	0.987	1.000	1.028
Melanopic Ratio	0.569	0.620	0.773

**Example Calculation:**

025U-075D / 3500K / 90 CRI  
 Lumen Output selected = 949 lms/ft

3000K / 90 CRI Desired  
 Lumen Adjustment Factor = 0.987

Adjusted Lumen Output = 949 lms/ft x 0.987 = 937 lms/ft

## Energy and Performance Data - Direct White Discreet Baffle with Medium Optic (WBM) and Indirect Batwing Optic (OOB)

Omni Performance - 90CRI, 3500K								Glare	
Direct Lumen Package	Indirect Lumen Package	Direct Lm/ft	Indirect Lm/ft	Total Lm/ft	Total W/ft	Lm/W	% Distribution Direct/Indirect	Max UGR (4H 8H 70/50/20)	Max Luminance (45-90 deg)
50D	-	534	0	534	4.6	117.3	100% / 0%	8.9	9060
	25U	534	220	754	6.6	113.8	71% / 29%	6.5	9060
	50U	534	420	954	8.2	116.4	56% / 44%	5.2	9060
	75U	534	641	1,175	9.8	120.5	45% / 55%	4.1	9060
	100	534	852	1,386	11.8	117.4	39% / 61%	3.4	9060
	125	534	1,095	1,630	14.1	115.6	33% / 67%	2.7	9060
	150	534	1,250	1,784	16.7	106.8	30% / 70%	2.3	9060
75D	-	795	0	795	7.0	114.0	100% / 0%	10.3	13492
	25U	795	220	1,015	9.1	112.1	78% / 22%	8.5	13492
	50U	795	420	1,215	10.6	114.4	65% / 35%	7.4	13492
	75U	795	641	1,436	12.2	118.0	55% / 45%	6.5	13492
	100U	795	852	1,647	14.2	115.8	48% / 52%	5.8	13492
	125U	795	1,095	1,891	16.5	114.4	42% / 58%	5.2	13492
	150U	796	1,250	2,045	19.1	106.9	39% / 61%	4.8	13492
100D	-	1,055	0	1,055	9.5	110.7	100% / 0%	11.3	17898
	25U	1,055	220	1,274	11.6	109.9	83% / 17%	9.8	17898
	50U	1,055	420	1,475	13.2	112.0	72% / 28%	8.9	17898
	75U	1,055	641	1,696	14.7	115.2	62% / 38%	8.1	17898
	100U	1,055	852	1,907	16.8	113.7	55% / 45%	7.5	17898
	125U	1,055	1,095	2,150	19.1	112.7	49% / 51%	6.9	17898
	150U	1,055	1,250	2,305	21.7	106.3	46% / 54%	6.5	17898
125D	-	1,334	0	1,334	12.4	107.8	100% / 0%	12.1	22644
	25U	1,334	220	1,554	14.5	107.5	86% / 14%	10.9	22644
	50U	1,334	420	1,755	16.0	109.5	76% / 24%	10.1	22644
	75U	1,334	641	1,976	17.6	112.4	68% / 32%	9.4	22644
	100U	1,335	852	2,186	19.6	111.4	61% / 39%	8.8	22644
	125U	1,335	1,095	2,430	21.9	110.8	55% / 45%	8.3	22644
	150U	1,335	1,250	2,584	24.5	105.4	52% / 48%	7.9	22644

**KEY:**

	Meets WELL v2
TEXT	Meets LEED v4.1

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Lumen Adjustment Factor = 0.987

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## Control Solutions

- WaveLinX LITE wireless
- WaveLinX PRO wireless
- WaveLinX CAT wired
- WaveLinX Wired



The Omni with WaveLinX offers no-hassle lighting control with multiple luminaire level control solutions.



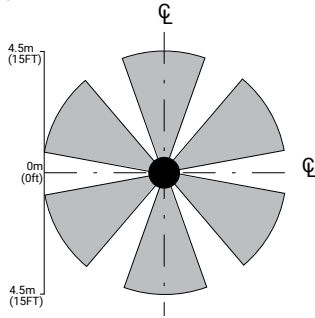
**WaveLinX PRO** is a wireless lighting control solution, for connected spaces, that significantly reduces a building's energy consumption. From a single floor to an entire campus, WaveLinX PRO connects more than lighting assets; it shares aggregated sensor data with the WaveLinX CORE platform and other building systems, so building owners can improve operations, spaces environment, and tenants' experience. WaveLinX PRO offers a rich portfolio of wireless devices, WaveLinX PRO-enabled luminaires, and an intuitive WaveLinX mobile app for office, education, warehouse, and parking garage applications.



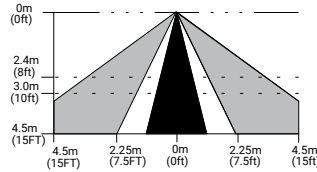
**WaveLinX LITE** is a cost effective, wireless digital lighting control solution, with out-of-the-box functionality, that saves energy and meets code. It's designed for applications that require occupancy-based, daylighting, or manual light control. Customize installations for office, education, warehouse and parking garages using the secure, simple mobile app.

### Integrated Sensor Coverage Pattern

TOP VIEW:



SIDE VIEW:



**Note:** Installation of integrated sensors within 3-ft (1m) of HVAC air vents is not recommended. The pattern shown is intended solely as a general guide and is not to scale.

With Integrated WaveLinX Sensor Endcap



### Integrated Controls Options

Option	Out of the Box Functionality	Luminaire Level Lighting Control (LLLC)	Automatic Dimming Photocell	Occupancy Sensing	CCT Control*
WLS	X	X	X	X	
WPS		X	X	X	

## Systems comparison chart

Cooper Lighting Solutions provides many lighting system solutions designed to satisfy code requirements and meet the unique needs of any project.



**Luminaire with standalone sensor**



**Standalone Spaces WaveLinX LITE**



**Standalone Spaces WaveLinX CAT**



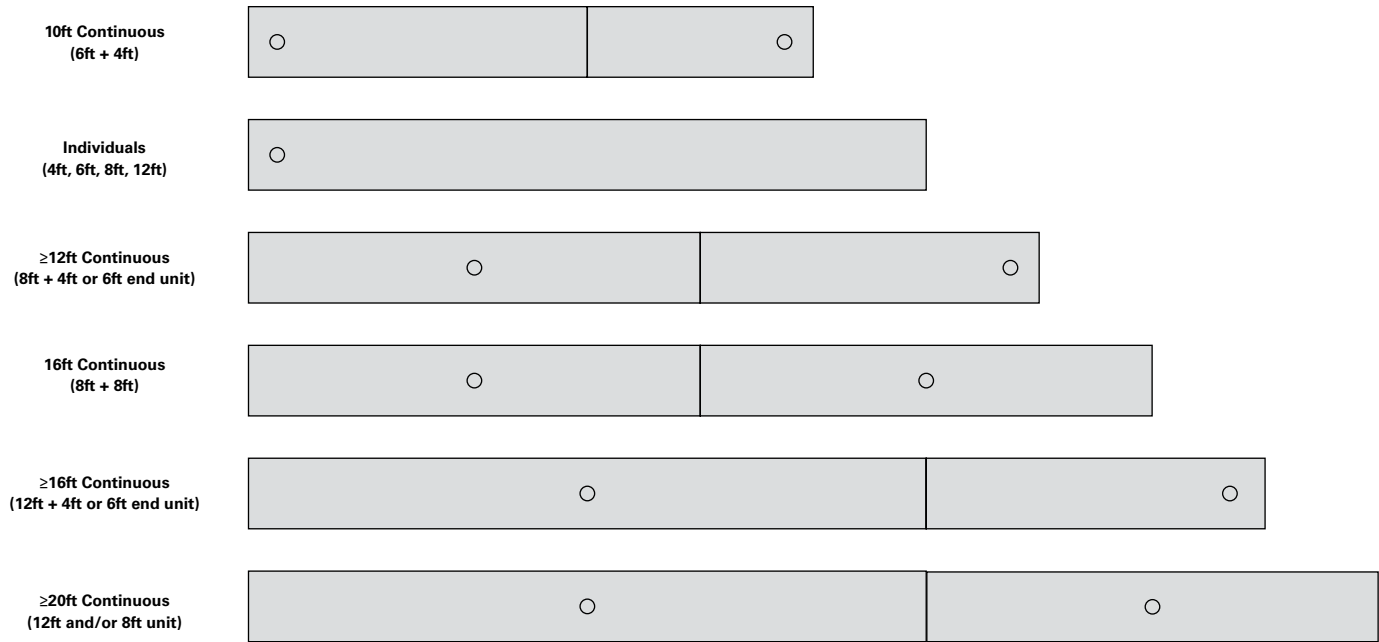
**Networked Spaces WaveLinX PRO**



**Enterprise WaveLinX CORE**

<b>Occupancy</b>	Yes	Yes	Yes	Yes	Yes
<b>Daylighting</b>	Yes	Yes	Yes	Yes	Yes
<b>Wallstations</b>	-	Yes	Yes	Yes	Yes
<b>Gateways</b>	-	-	-	1 WAC	300 WACs
<b>Devices (MAX)</b>	-	40 per Area (1120 per space)	40 per Area	200 per WAC2	32,500 per CORE Enterprise
<b>Software</b>	-	WaveLinX LITE Mobile App	WaveLinX CAT Mobile App	WaveLinX Mobile App	CORE
<b>Areas</b>	-	28 per Space	Unlimited	50 per WAC2	up to 3,000
<b>Zones</b>	-	16 per Area	16 per Area	16 per Area	up to 9,000
<b>Scheduling</b>	-	-	-	Local	Global
<b>VividTune™</b>	-	-	-	Yes	Yes
<b>Plug-Load Control</b>	-	Yes	Yes	Yes	Yes
<b>Low-Voltage Power</b>	-	-	Yes	Yes	Yes
<b>Integration</b>	-	-	-	-	BACnet, API
<b>Dashboards</b>	-	-	-	-	Energy, Occupancy
<b>Configuration</b>	-	Installer	Installer	Technician	Technician / IT

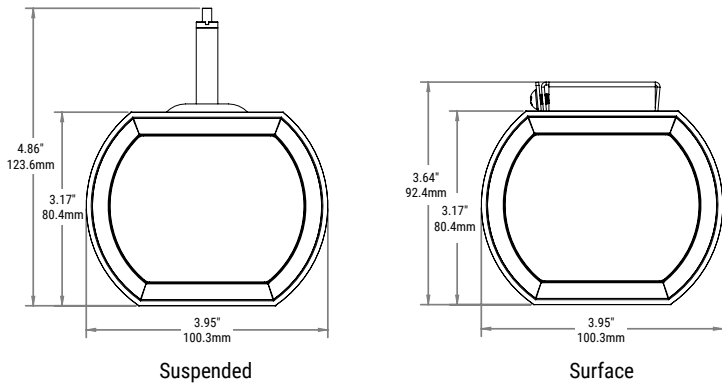
## Default Integrated Sensor Placement



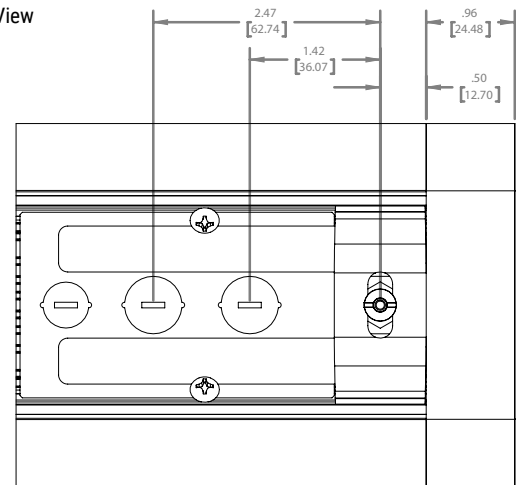
○ Standard Sensor with Luminaire Control

## Additional Dimensions

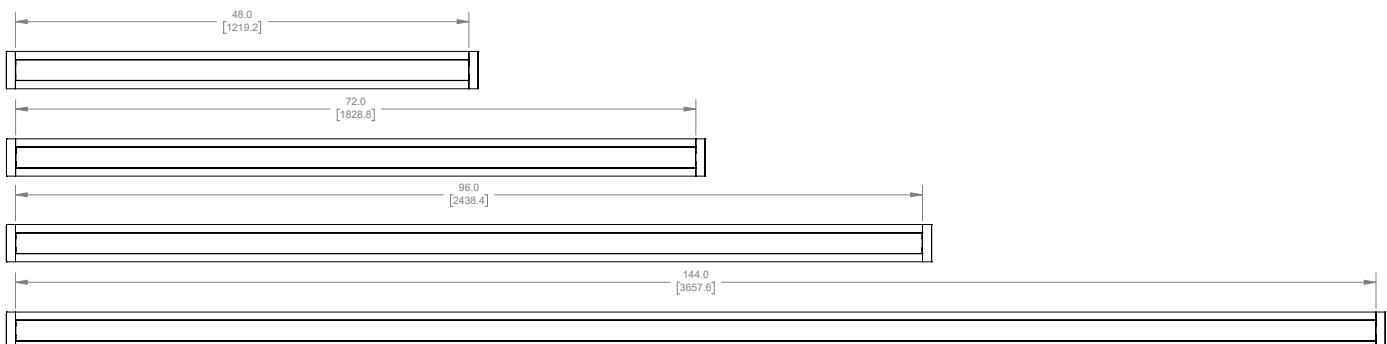
### Cross Section Views



### Top View



### Bottom Views



End caps add 0.96in at each end (or 1.9in in total for both ends)