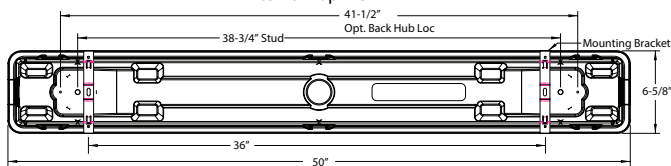


Note: Brass Studs on Inside of Unit are 10-32

External Top View



Note: Brass Studs on Inside of Unit are 10-32

1/4 - 28 Brass Stud

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
12000	12752	91W
10000	10115	70W
8000	8299	65W
7000	7217	49W
6000	6186	46W
5000	5086	36W
4000	3921	27W
3000	2955	20W
2000	2005	16W

Based on 4000K, 85+ CRI. Actual wattage may vary +/- 5%

FEATURES

The OW1IP is an IP67 enclosed-and-gasketed linear vapor tight suitable for high-temperature, high-impact, wet environments. Durable, snap-in construction with easy-to-access, upgradeable wiring compartment and a lightweight design permits easy installation. Designed for surface or suspended mounting. DLC Premium-qualified. Typical applications include food processing, cold storage, parking garages, car washes, covered canopies, pedestrian tunnels, and where harsh conditions are present.

LUMENS	2000, 3000, 4000, 5000, 6000, 7000, 8000, 10000, 12000
CCT	30K, 35K, 40K, 50K
CRI	85+
COLOR QUALITY	3 Step MacAdam Ellipse
LENGTH	2' and 4'
MOUNTING	Suspended or Surface
DIMMING & CONTROL	0-10V Flicker Free 1% Dimming Standard (DIM10)
EMERGENCY	10W - Up to 1000L output
AMBIENT TEMPERATURE	-20°C to 55°C (-4°F to 131°F)
LIFETIME	L70 at 50,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21



CONSTRUCTION

Housing

- Fiberglass reinforced polyester (FRP) body is self-extinguishing (ASTM D635-74). FRP is lightweight but extremely durable and combats harsh temperatures, mildew, chemical-corrosion, and high-impact environments.
- Housings built with one watertight conduit entry point at either end.
- NSF-listed components and enclosure.

Enclosed-and-Gasketed

- One-piece, continuous poured-in-place gasket and flanged door provide watertight seal.
- Molded latch pockets are compatible with standard and tamper-proof latches in stainless steel and polycarbonate.
- Standard white polycarbonate cam latches seal enclosure.
- Optional stainless-steel latches, stainless steel tamper-proof latches, and polycarbonate tamper-proof latches.

Diffuser and Reflector

- Injection-molded acrylic diffuser.
- Reflectors painted with 93% reflective white coat. Specular reflector can be ordered as an option.

Thermal Management: LED board is attached to aluminum reflector, keeping engines cool and increasing LED life.

MAINTENANCE

LED engines and driver can be accessed from the bottom by removing diffuser and detaching LED tray. LED engines are removable and upgradable even after fixture installation. Spacers are located between driver and LED board. Rated for direct water contact per standards IP65/IP67, ensuring fixture can be safely washed, wiped and hosed down.

OPTICS

Injection-molded acrylic lens protects against impact, prevents yellowing, and minimizes glare. A contoured molded linear-ribbed lens diffuses the light for bright, smooth illumination. Internal crepe lens allows for an easy-to-maintain smooth surface.

Applications

Food processing, cold storage, parking garages, car washes, covered canopies, pedestrian tunnels.

- NSF International - Splash Zone 2: Wet or damp process areas; High-pressure purging and/or decontamination used in the process; Areas using high-pressure hose washdown.
- IP67 per IEC 60529 standard: Totally protected against dust/sand impact and complete immersion of up to 1 meter in water.
- IP65 per IEC 60529 standard: Totally protected against dust/sand impact

and protected against jets of water from a nozzle of 6.3mm.

- IP65 and IP67 rated when ceiling, surface, and pendant mounted. IP65/67 ratings do not apply when wall mounted.

Mounting

- Suitable for suspension by chain, cable, pendant and surface mounting.
- Shipped standard with two stainless steel mounting brackets for surface, stem, suspended chain, aircraft cable, and other mounting options.
- Cable, chain, and related hardware for suspended mounting must be ordered as accessories.

PERFORMANCE

The OW1IP-LED powered lighting technologies offer a higher return on investment than any other lighting technology. The light engines found in the OW1IP-LED are rated at 85+ CRI and available in multiple CCTs: 3000K, 3500K, 4000K and 5000K. All LEDs and LED fixtures are rated and tested to LM-79 and LM-80 standards. The LEDs are also binned to a s to achieve consistent color from fixture to fixture.

THERMAL MANAGEMENT

Our advanced thermal management system allows the light output of the LED engines to be maintained at 70% of initial lumens at 50,000 hours of operation.

DIMMING & DRIVER INFORMATION

DIM10 - Flicker Free 1% or 5% Dimming Standard (DIM10) 0-10V dimming on either MVOLT 120, 277, 347, or 480V.

ELECTRICAL

Powered by constant-current power LED drivers rated for 50 to 60Hz at 120-277V input, produce less than 20% THD, and have a power factor of .90 to 1.00. Optional 347V and 480V.

OPTIONS

Fixtures can be shipped pre-installed with daylight harvesting controls and occupancy sensors. Consult factory for details. Optional emergency battery back-up comes pre-installed on fixture and emergency push button is installed on fixture. Generator transfer device available.

WARRANTY

Five-year limited warranty on parts and components (labor not included).

LISTINGS

cULus
NSF International - Splash Zone 2
IP65 per IEC 60529 standard
IP67 per IEC 60529 standard
DLC Premium

Example: **4-OW1IP-LED-4000L-DIM10-MVOLT-30K-85**

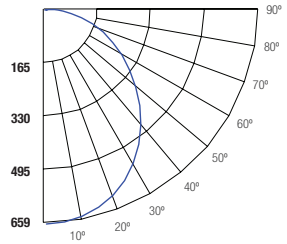
4	OW1IP	LED												
FIXTURE SIZE	SERIES	TYPE	4' LUMENS	DIMMING	VOLTAGE	CCT	CRI	EMERGENCY	DISTRIBUTION					
4 - 4'	OW1IP - LED Vapor Tight	LED	2000L - 2000 lumens 3000L - 3000 lumens 4000L - 4000 lumens 5000L - 5000 lumens 6000L - 6000 lumens 7000L - 7000 lumens 8000L - 8000 lumens 10000L - 10000 lumens 12000L - 12000 lumens	DIM10 - 0-10V Dimming	MVOLT 347* 480 <small>*Consult factory for details</small>	30K 35K 40K 50K	85	0-EMG-LED-10W	Blank - General ND - Narrow Distribution MD - Medium Distribution WD - Wide Batwing Distribution AD - Aisle Distribution					
OTHER OPTIONS														
<table border="0"> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> OW1IPSR - Specular Reflector MSPH - Motion Sensor with Photocell SSL - Stainless Steel Latches SSLTP - Stainless Steel Latches w/ Tamper Proof Screws PCLTP - Poly. Latches w/ Tamper Proof Screws USA - Made in America Compliance FSP-311-B-D - 0-10V continuous dimming PIR photo/ motion sensor with bluetooth control option. OSM3D-V1W - Line Voltage Microwave Sensor (Integrated) OSM3D-DDW-20 - HF Microwave Sensor 0-10 20% Dim (Integrated. Only for indoor use) OSM3D-DDW-50 - HF Microwave Sensor 0-10 50% Dim (Integrated. Only for indoor use) OFD1Z-10W - IP66 PIR Side Mount Sensors with Bluetooth™ Connectivity and UV Stable Plasti </td> <td style="vertical-align: top; text-align: center;">SUSPENDED MOUNTING</td> </tr> <tr> <td></td> <td> <ul style="list-style-type: none"> GSS - Gripple Suspension System VH - V Hook CH - Heavy-duty Chain GSSP - Gripple System with Paddles </td> </tr> </table>											<ul style="list-style-type: none"> OW1IPSR - Specular Reflector MSPH - Motion Sensor with Photocell SSL - Stainless Steel Latches SSLTP - Stainless Steel Latches w/ Tamper Proof Screws PCLTP - Poly. Latches w/ Tamper Proof Screws USA - Made in America Compliance FSP-311-B-D - 0-10V continuous dimming PIR photo/ motion sensor with bluetooth control option. OSM3D-V1W - Line Voltage Microwave Sensor (Integrated) OSM3D-DDW-20 - HF Microwave Sensor 0-10 20% Dim (Integrated. Only for indoor use) OSM3D-DDW-50 - HF Microwave Sensor 0-10 50% Dim (Integrated. Only for indoor use) OFD1Z-10W - IP66 PIR Side Mount Sensors with Bluetooth™ Connectivity and UV Stable Plasti 	SUSPENDED MOUNTING		<ul style="list-style-type: none"> GSS - Gripple Suspension System VH - V Hook CH - Heavy-duty Chain GSSP - Gripple System with Paddles
<ul style="list-style-type: none"> OW1IPSR - Specular Reflector MSPH - Motion Sensor with Photocell SSL - Stainless Steel Latches SSLTP - Stainless Steel Latches w/ Tamper Proof Screws PCLTP - Poly. Latches w/ Tamper Proof Screws USA - Made in America Compliance FSP-311-B-D - 0-10V continuous dimming PIR photo/ motion sensor with bluetooth control option. OSM3D-V1W - Line Voltage Microwave Sensor (Integrated) OSM3D-DDW-20 - HF Microwave Sensor 0-10 20% Dim (Integrated. Only for indoor use) OSM3D-DDW-50 - HF Microwave Sensor 0-10 50% Dim (Integrated. Only for indoor use) OFD1Z-10W - IP66 PIR Side Mount Sensors with Bluetooth™ Connectivity and UV Stable Plasti 	SUSPENDED MOUNTING													
	<ul style="list-style-type: none"> GSS - Gripple Suspension System VH - V Hook CH - Heavy-duty Chain GSSP - Gripple System with Paddles 													

NOTE - For indoor use only

4-OW1IP-LED-2000L-DIM10-120-40K

INPUT WATTS: **16.2** LUMENS: 2005 CRI: **85** EFFICACY: **112** CCT: **4000K** TEST NO.: **EL-081459**
SPACING CRITERIA: **1.36**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	241.81	N.A.	11.8
0-30	512.78	N.A.	25.1
0-40	835.65	N.A.	40.9
0-60	1460.26	N.A.	71.4
0-80	1861.74	N.A.	91
0-90	1948.99	N.A.	95.3

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	2576	2848	3100
55	2283	2699	3101
65	1990	2650	3258
75	1697	2819	3591
85	1528	4398	5753

Lumens Per Zone

Zone	Lumens
0-10	62.5
10-20	179.31
20-30	270.97
30-40	322.87
40-50	328.85
50-60	295.76
60-70	238.01
70-80	163.47
80-90	87.25

Candela Tabulation

Q	
0	659.389
5	653.213
15	620.406
25	561.028
35	476.612
45	374.048
55	268.856
65	172.695
75	90.176
85	27.335
90	8.874

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

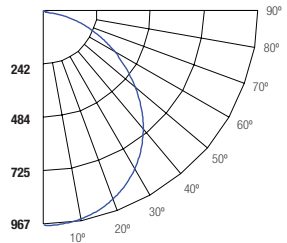
ROOM CAVITY RATIO	RC	80%				70%				50%				30%				10%				0%			
		RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
0	118	118	118	118	118	115	115	115	115	108	108	108	103	103	103	98	98	98	98	98	98	98	95		
1	106	101	97	92	103	98	94	90	93	90	87	89	86	83	84	82	80	77	77	72	68	73	70		
2	96	88	81	74	93	85	79	73	81	76	71	77	72	68	73	70	66	64	62	57	65	60			
3	88	77	68	62	85	75	67	61	71	65	59	68	62	57	65	60	56	53	52	46	52	48			
4	80	68	59	52	78	66	58	51	63	56	50	60	54	49	58	52	48	45	44	42	42	42			
5	74	61	52	45	71	59	51	44	57	49	43	54	48	42	52	46	42	39	38	37	37	39			
6	68	55	46	39	66	53	45	39	51	44	38	49	42	37	47	41	37	34	34	33	33	34			
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9	55	41	33	28	53	41	33	27	39	32	27	38	31	27	36	31	26	24	24	24	24	24			
10	52	38	30	25	50	38	30	25	36	29	24	35	29	24	34	28	24	24	24	24	24	22			

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

4-OW1IP-LED-3000L-DIM10-MVOLT-40K-85

INPUT WATTS: **20.9** LUMENS: 2955 CRI: **85** EFFICACY: **141** CCT: **4000K** TEST NO.: **EL0119113**
SPACING CRITERIA: **1.36**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	348.67	11.8	11.8
0-30	743.15	25.2	25.2
0-40	1217.84	41.2	41.2
0-60	2157.4	73	73
0-80	2746.8	93	93
0-90	2848.46	96.4	96.4

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	4137	4113	4229
55	3779	3998	4322
65	3384	4087	4380
75	2946	4022	4075
85	2804	5069	4886

Lumens Per Zone

Zone	Lumens
0-10	90.59
10-20	258.08
20-30	394.48
30-40	474.69
40-50	490.73
50-60	448.83
60-70	361.39
70-80	228.02
80-90	101.66

Candela Tabulation

Q	
0	964.978
5	963.57
15	933.13
25	869.18
35	768.57
45	631.08
55	467.6
65	308.55
75	164.5
85	52.72
90	20.58

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

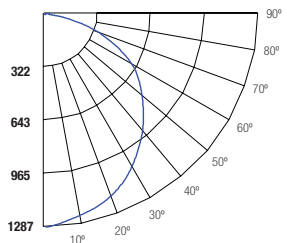
ROOM CAVITY RATIO	RC	80%				70%				50%				30%				10%				0%			
		RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
0	118	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	96			
1	107	102	97	93	104	99	95	91	94	91	88	90	87	84	88	83	81	79	77	72	70	73			
2	97	88	81	75	94	86	80	74	82	77	72	78	74	70	75	71	67	65	62	57	65	61			
3	88	77	69	62	85	75	68	61	72	65	60	69	63	58	66	61	57	54	52	46	52	48			
4	81	68	59	52	78	67	58	52	64	57	51	61	55	50	58	53	49	46	44	42	42	40			
5	74	61	52	45	72	60	51	45	57	50	44	55	48	43	52	47	42	40	38	37	37	35			
6	68	55	46	39	66	54	45	39	52	44	38	49	43	38	48	42	37	35	34	33	33	31			
7	63	50	41	34	61	49	40	34	47	39	34	45	38	33	43	37	33	31	30	29	29	27			
8	59	45	37	31	57	44	36	31	43	35	30	41	35	30	40	34	29	27	27	26	26	24			
9	55	42	33	28	53	41	33	27	39	32	27	38	31	27	37	31	26	25	25	24	24	22			
10	52	38	30	25	50	38	30	25	36	29	25	35	29	24	34	28	24	24	24	24	24	22			

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

4-OW1IP-LED-4000L-DIM10-MVOLT-40K-85

INPUT WATTS: **27.9** LUMENS: 3921 CRI: **85** EFFICACY: **141** CCT: **4000K** TEST NO.: **EL0119112**
SPACING CRITERIA: **1.36**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	464.16	11.8	11.8
0-30	985.35	25.1	25.1
0-40	1612.4	41.1	41.1
0-60	2862.11	73	73
0-80	3644.82	93	93
0-90	3779.91	96.4	96.4

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	5499	5475	5632
55	5026	5314	5755
65	4457	5362	5817
75	3924	5361	5439
85	3760	6759	6544

Lumens Per Zone

Zone	Lumens
0-10	120.62
10-20	343.54
20-30	521.19
30-40	627.05
40-50	652.25
50-60	597.46
60-70	479.3
70-80	303.4
80-90	135.09

Candela Tabulation

Q	
0	1284.6
5	1280.12
15	1240.12
25	1155.4
35	1021.48
45	838.93
55	621.88
65	406.39
75	219.13
85	70.69
90	27.99

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

ROOM CAVITY RATIO	RC	80%				70%				50%				30%				10%				0%			
		RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
0	118	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	96			
1	107	102	97	93	104	99	95	91	94	91	88	90	87	84	88	83	81	79	77	72	70	73			
2	97	88	81	75	94	86	80	74	82	77	72	78	74	70	75	71	67	65	62	57	65	61			
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10	52	38	30																						

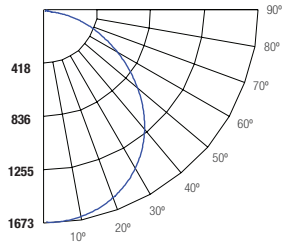
4-OW1IP-LED-5000L-DIM10-MVOLT-40K-85

INPUT WATTS: **36.6** LUMENS: 5086 CRI: **85** EFFICACY: **139** CCT: **4000K**

TEST NO.: **EL0119111**

SPACING CRITERIA: **1.36**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	603.1	11.9	11.9
0-30	1280.34	25.2	25.2
0-40	2094.99	41.2	41.2
0-60	3710.81	73	73
0-80	4727.54	92.9	92.9
0-90	4903.39	96.4	96.4

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	7165	7125	7323
55	6551	6916	7489
65	5798	6984	7574
75	5120	6950	7048
85	4904	8832	8554

Lumens Per Zone

Zone	Lumens
0-10	156.75
10-20	446.34
20-30	677.24
30-40	814.66
40-50	842.04
50-60	773.77
60-70	622.85
70-80	393.89
80-90	175.85

Candela Tabulation

Q	Candela
0	1669.782
5	1666.75
15	1614.6
25	1504.6
35	1330.82
45	1092.96
55	810.58
65	528.61
75	285.87
85	92.21
90	38.03

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RC	80%				70%				50%				30%				10%				0%			
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	96	96	96	96		
1	107	102	97	93	104	99	95	91	88	94	91	88	90	87	84	86	83	81	79	79	79	79		
2	97	88	81	75	94	86	80	74	72	78	74	70	75	71	71	67	67	65	65	65	65	65		
3	88	77	69	62	85	75	68	61	57	69	63	58	66	61	57	54	54	54	54	54	54	54		
4	81	68	59	52	78	67	58	52	47	61	55	50	58	53	49	46	46	46	46	46	46	46		
5	74	61	52	45	72	60	51	45	39	55	48	43	52	47	42	42	42	42	42	42	42	42		
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8	59	45	37	31	57	44	36	31	26	41	35	30	40	34	29	29	29	29	29	29	29	29		
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10	52	38	30	25	50	38	30	25	21	35	29	25	34	28	24	24	24	24	24	24	24	24		

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

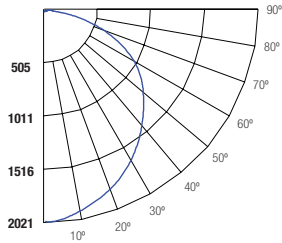
4-OW1IP-LED-6000L-DIM10-MVOLT-40K-85

INPUT WATTS: **46.9** LUMENS: 6186 CRI: **85** EFFICACY: **132** CCT: **4000K**

TEST NO.: **EL03132029**

SPACING CRITERIA: **1.36**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	726.07	11.7	11.7
0-30	1536.36	24.8	24.8
0-40	2509.26	40.6	40.6
0-60	4445.54	71.9	71.9
0-80	5687.66	91.9	91.9
0-90	5923.26	95.7	95.7

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	42085	41330	42981
55	39106	40658	44995
65	35854	41573	47031
75	33432	42914	47468
85	35949	62608	66945

Lumens Per Zone

Zone	Lumens
0-10	189.31
10-20	536.76
20-30	810.29
30-40	972.91
40-50	1007.78
50-60	928.5
60-70	752.71
70-80	489.4
80-90	235.6

Candela Tabulation

Q	Candela
0	2016.694
5	2011.44
15	1949.74
25	1817.19
35	1609.28
45	1328.28
55	1001.19
65	676.34
75	386.22
85	139.85
90	58.08

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RC	80%				70%				50%				30%				10%				0%			
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	98	96	96	96	96		
1	107	102	97	93	104	99	95	91	88	94	91	88	89	86	84	85	83	81	80	80	80	80		
2	97	88	81	75	94	86	79	73	71	77	73	69	74	70	67	67	67	67	67	67	67	67		
3	88	77	68	62	85	75	67	61	57	69	63	58	65	60	56	56	56	56	56	56	56	56		
4	80	68	59	52	78	66	58	51	46	60	54	49	58	52	48	48	48	48	48	48	48	48		
5	74	61	51	45	71	59	51	44	38	54	48	42	52	46	42	42	42	42	42	42	42	42		
6	68	55	45	39	66	53	45	39	33	49	43	37	47	41	37	37	37	37	37	37	37	37		
7	63	49	41	34	61	48	40	34	29	45	38	33	43	37	33	33	33	33	33	33	33	33		
8	59	45	36	31	57	44	36	30	25	41	34	29	39	33	29	29	29	29	29	29	29	29		
9	55	41	33	27	53	41	33	27	23	38	31	26	36	30	26	26	26	26	26	26	26	26		
10	51	38	30	25	50	37	30	25	21	35	29	24	34	28	24	24	24	24	24	24	24	24		

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

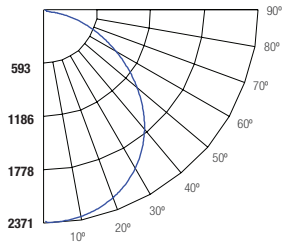
4-OW1IP-LED-7000L-DIM10-MVOLT-40K-85

INPUT WATTS: **49.5** LUMENS: 7217 CRI: **85** EFFICACY: **146** CCT: **4000K**

TEST NO.: **EL0119110**

SPACING CRITERIA: **1.40**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	866.42	12	12
0-30	1842.29	25.6	25.6
0-40	3023.98	42	42
0-60	5307.63	73.7	73.7
0-80	6680.29	92.7	92.7
0-90	6925.85	96.1	96.1

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	10253	10355	10073
55	9374	9557	9885
65	8260	9106	9912
75	7138	9155	9395
85	6995	12376	12067

Lumens Per Zone

Zone	Lumens
0-10	223.68
10-20	642.74
20-30	975.87
30-40	1181.69
40-50	1210
50-60	1073.65
60-70	840.56
70-80	532.12
80-90	245.56

Candela Tabulation

Q	Candela
0	2360.986
5	2363.63
15	2292.93
25	2142.48
35	1901.39
45	1564.14
55	1159.98
65	753.09
75	398.58
85	131.52
90	50.87

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RC	80%				70%				50%				30%				10%				0%			
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	98	98	98	98	96	96	96	96		
1	107	102	98	93	104	99	95	92	94	91	88	90	87	85	86	83	81	81	81	81	81	81		
2	97	89	82	76	94	86	80	74	72	78	74	70	75	71	68	68	68	68	68	68	68	68		
3	89	78	69	63	86	76	68	62	57	66	60	55	63	57	53	53	53	53	53	53	53	53		
4	81	69	60	53	78	67	59	52	47	61	55	50	58	52	48	48	48	48	48	48	48	48		
5	74	61	52	46	72	60	52	45	39	55	48	43	52	46	42	42	42	42	42	42	42	42		
6	69	55	46	40	67	54	46	39	33	49	43	37	47	41	37	37	37	37	37	37	37	37		
7	64	50	41	35	62	49	41	35	29	45	38	33	43	37	33	33	33	33	33	33	33	33		
8	59	46	37	31	57	45	37	31	26	41	34	29	39	33	29	29	29							

4-OW1IP-LED-8000L-DIM10-MVOLT-TWH-85

TEST NO.: EL082019110

INPUT WATTS: **65**

LUMENS: 8299

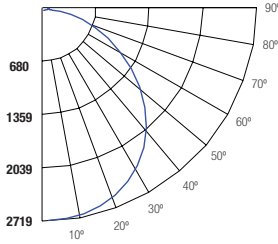
CRI: **85**

EFFICACY: **128**

CCT: **TWH**

SPACING CRITERIA: **1.36**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	988.42	11.9	11.9
0-30	2099.27	25.3	25.3
0-40	3428.88	41.4	41.3
0-60	6035.2	72.8	72.7
0-80	7643.97	92.2	92.1
0-90	7948.48	95.9	95.8

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	7010	6876	6724
55	7225	6611	6139
65	7398	6628	5414
75	7248	6856	4709
85	9997	9855	4781

Lumens Per Zone

Zone	Lumens
0-10	255.64
10-20	732.78
20-30	1110.85
30-40	1329.61
40-50	1366.31
50-60	1240.01
60-70	979.83
70-80	628.94
80-90	304.51

Candela Tabulation

Q	Candela
0	2705.465
5	2700.55
15	2607.71
25	2434.3
35	2152.26
45	1843.79
55	1541.36
65	1162.99
75	697.73
85	324.09
90	213.53

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RC	80%				70%				50%				30%			10%			0%
	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96	
1	107	102	97	93	104	99	95	91	94	91	88	89	87	84	85	83	81	78	
2	97	88	81	75	94	86	80	74	82	76	72	78	73	69	74	71	67	65	
3	88	77	69	62	85	76	68	61	72	65	60	69	63	58	65	61	57	54	
4	81	69	60	53	78	67	59	52	64	57	51	61	55	50	58	53	49	46	
5	74	61	52	45	72	60	51	45	57	50	44	55	48	43	52	47	42	40	
6	69	55	46	39	66	54	45	39	52	44	38	49	43	38	47	42	37	35	
7	64	50	41	35	62	49	40	34	47	39	34	45	38	33	43	37	33	31	
8	59	45	37	31	57	45	36	31	43	36	30	41	35	30	40	34	29	27	
9	55	42	33	28	54	41	33	28	39	32	27	38	32	27	37	31	27	25	
10	52	38	30	25	50	38	30	25	36	30	25	35	29	24	34	28	24	22	

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

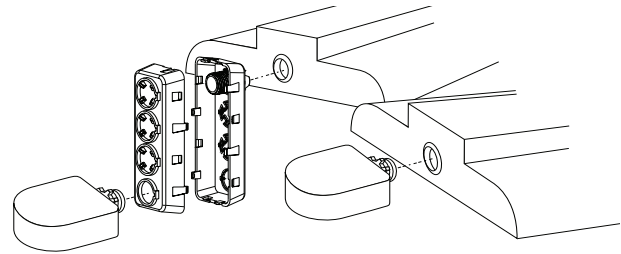
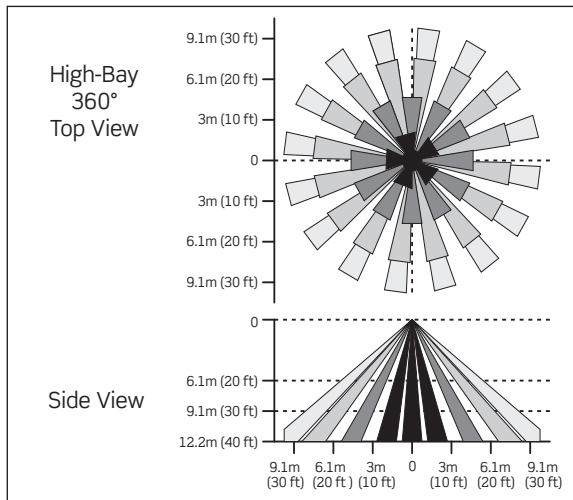
Passive Infrared Motion Sensor with Photocell



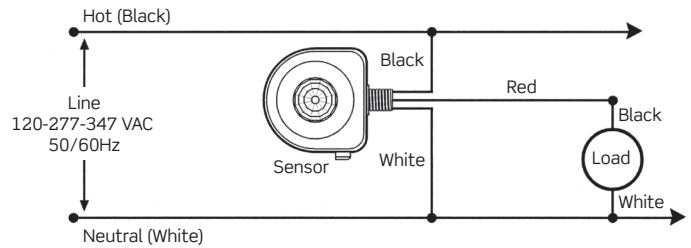
MSPH provides the most labor savings available with quick snap, 21" wire leads, and no power required to configure.

Passive Infrared Technology is used to sense occupancy by comparing the infrared energy from an object in motion and the background space. PIR sensors minimize false ON from background environmental conditions such as air movement to provide reliable detection of line-of-sight motion.

FIELD-OF-VIEW

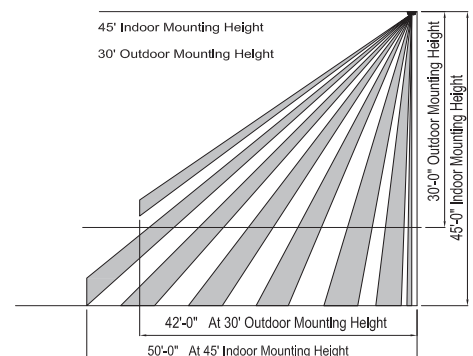
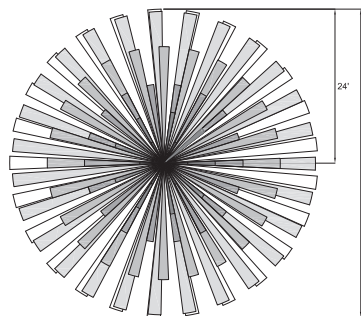


Wiring Diagram



Wet Location Motion Sensor (IP65)

The HB3x0W occupancy sensor is designed to mount to a light fixture and control one load in the fixture. The sensor can be wired to control all ballasts in the fixture, or to control half of the ballasts to provide high/low lighting control. When motion is detected within the sensor's coverage area, the relay in the sensor closes, and lighting loads turn on automatically. When motion is no longer detected for the duration of the time delay setting, the relay opens and the lighting load is turned off. The sensitivity and time delay settings are factory preset at 100% and 15 minutes, respectively, which are suitable for most high bay applications. However, the values can be easily adjusted for specific applications using the DIP switches on the unit. Refer to the Installation Instructions for changing factory preset values, and for important start up instructions.



Sensor Lens Coverage and Detection Patterns
When Mounted at 8ft with Low Mount Lens