

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P829974

Luminaire Tested: **OHBL-18SE-MFL-UNV-L750-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18SE-MFL-UNV-L750-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 5000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

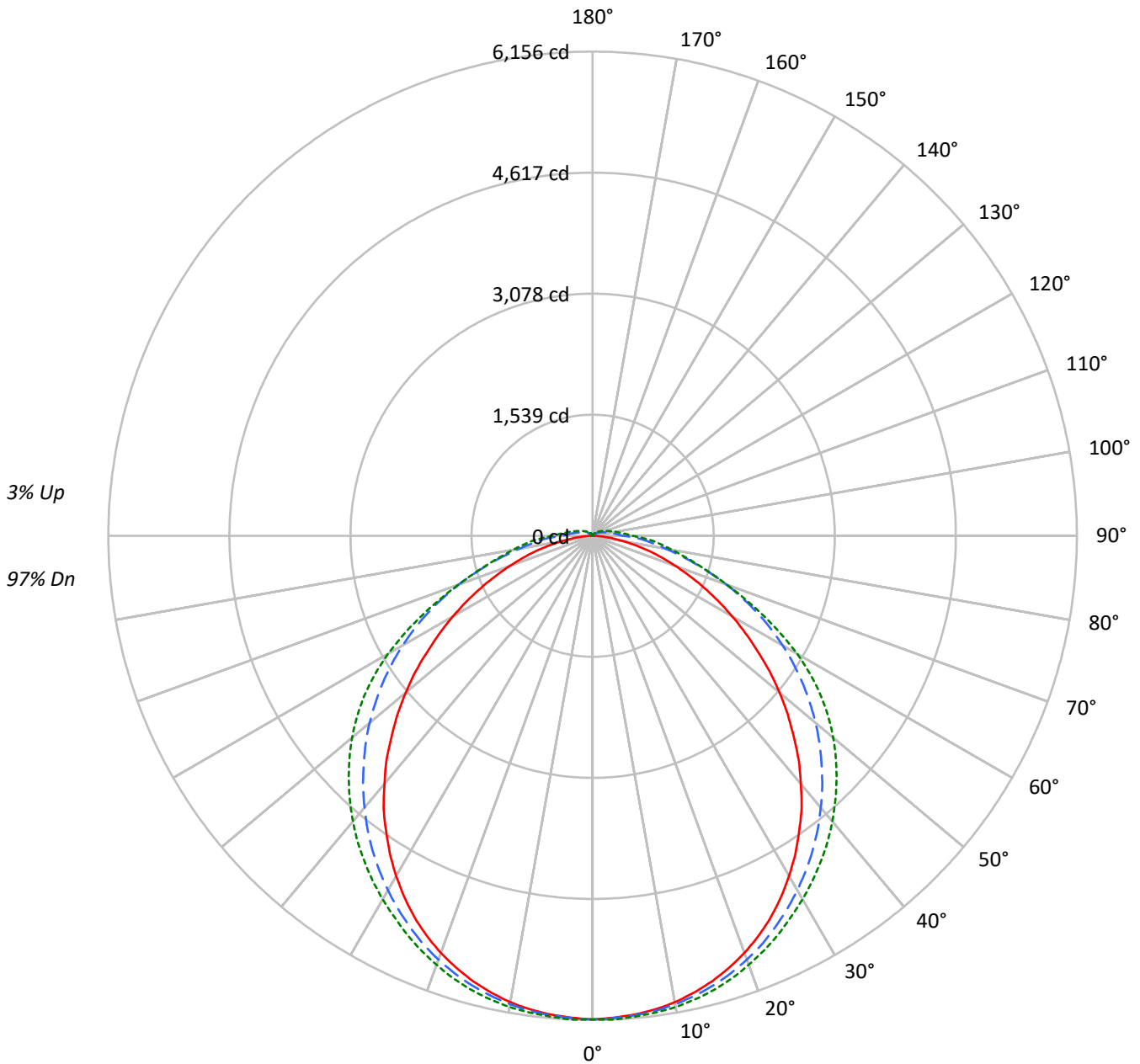
Lumens per Lamp: N/A
Luminaire Lumens: 18407.0 lumens
Efficiency: N/A
Efficacy: 175.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 105
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	50	30	10	50	30	10	0				
RCR																															
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	99	99	99	99	99	99	97				
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	86	84	82	86	84	82	86	84	82	80				
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	75	72	68	75	72	68	75	72	68	66				
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	67	62	58	67	62	58	67	62	58	56				
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	59	54	50	59	54	50	59	54	50	47				
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	53	48	43	53	48	43	53	48	43	41				
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	48	43	38	48	43	38	48	43	38	36				
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	44	38	34	44	38	34	44	38	34	32				
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	41	35	30	41	35	30	41	35	30	28				
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	37	32	27	37	32	27	37	32	27	25				
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	35	29	25	35	29	25	35	29	25	23				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10505	10505	10505
5°	10437	10401	10430
10°	10364	10304	10369
15°	10249	10190	10291
20°	10095	10051	10179
25°	9890	9879	10066
30°	9605	9692	9952
35°	9261	9494	9852
40°	8848	9266	9753
45°	8361	9018	9628
50°	7828	8767	9477
55°	7173	8460	9229
60°	6502	8099	8743
65°	5769	7638	7954
70°	4975	7053	7099
75°	4171	6376	6510
80°	3162	5874	6415
85°	2000	6050	7074



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.8	3.2
10°-20°	1671.9	9.1
20°-30°	2528.5	13.7
30°-40°	3035.5	16.5
40°-50°	3135.1	17.0
50°-60°	2820.6	15.3
60°-70°	2124.7	11.5
70°-80°	1283.0	7.0
80°-90°	627.5	3.4
90°-100°	264.1	1.4
100°-110°	150.8	0.8
110°-120°	88.5	0.5
120°-130°	50.0	0.3
130°-140°	26.3	0.1
140°-150°	12.8	0.1
150°-160°	4.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4783.2	26.0
0°-40°	7818.6	42.5
0°-60°	13774.4	74.8
0°-90°	17809.6	96.8
90°-120°	503.4	2.7
90°-150°	592.6	3.2
90°-180°	597.0	3.2
0°-180°	18407.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6150	6150	6150	6150	6150	
5°	6111	6128	6120	6144	6137	581
15°	5864	5893	5920	5970	5976	1653
25°	5356	5414	5491	5577	5590	2463
35°	4579	4686	4878	5026	5056	2862
45°	3614	3796	4114	4338	4385	2790
55°	2560	2825	3254	3500	3542	2296
65°	1562	1882	2303	2417	2390	1552
75°	736	1057	1334	1368	1355	785
85°	154	405	668	760	774	177
90°	0	158	382	482	501	10
95°	8	107	286	364	378	6
105°	10	62	166	217	226	11
115°	12	35	102	137	143	12
125°	12	17	62	89	93	11
135°	10	14	32	54	60	8
145°	15	14	15	27	32	9
155°	15	17	15	14	15	5
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHBL-18SE-MFL-UNV-L750-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6150.4	6150.4	6150.4	6150.4	6150.4
2.5°	6132.3	6147.4	6138.3	6157.9	6156.4
5°	6111.2	6127.8	6120.3	6144.3	6136.8
7.5°	6075.1	6093.2	6091.7	6118.8	6115.7
10°	6022.4	6042.0	6048.0	6084.1	6084.1
12.5°	5950.2	5975.8	5990.8	6034.5	6036.0
15°	5864.4	5893.0	5920.1	5969.7	5975.8
17.5°	5760.5	5796.6	5834.3	5891.5	5899.0
20°	5643.1	5683.7	5734.9	5795.1	5804.2
22.5°	5507.6	5555.8	5622.0	5692.8	5703.3
25°	5355.6	5414.3	5491.1	5576.9	5590.4
27.5°	5182.5	5250.2	5354.1	5450.4	5462.5
30°	4994.3	5074.1	5203.6	5318.0	5337.5
32.5°	4795.7	4887.5	5047.0	5175.0	5202.1
35°	4578.9	4685.8	4878.4	5026.0	5056.1
37.5°	4365.2	4482.6	4700.8	4869.4	4905.5
40°	4115.3	4261.3	4511.2	4697.8	4741.5
42.5°	3880.5	4038.5	4321.5	4524.7	4566.9
45°	3614.1	3796.2	4113.8	4338.1	4384.7
47.5°	3364.2	3561.4	3913.6	4145.4	4193.6
50°	3100.8	3317.5	3699.9	3942.2	3991.9
52.5°	2837.4	3070.7	3478.6	3730.0	3776.6
55°	2560.4	2825.3	3254.3	3499.7	3541.8
57.5°	2303.0	2583.0	3024.0	3257.3	3282.9
60°	2048.6	2339.1	2789.2	2993.9	3002.9
62.5°	1800.3	2105.8	2548.4	2710.9	2698.9
65°	1562.4	1881.5	2303.0	2417.4	2390.3
67.5°	1333.6	1663.3	2051.6	2125.4	2089.3
70°	1116.9	1451.0	1807.8	1845.4	1812.3
72.5°	925.7	1249.3	1560.9	1592.5	1568.4
75°	736.1	1056.7	1333.6	1368.3	1354.7
77.5°	558.4	870.0	1124.4	1169.6	1172.6
80°	401.9	699.9	942.3	1013.0	1022.1
82.5°	264.9	543.4	790.2	880.6	894.1
85°	153.5	404.9	668.3	760.1	773.7
87.5°	66.2	292.0	537.4	620.2	636.7
90°	0.0	158.0	382.3	481.7	501.2
92.5°	4.5	131.0	328.1	418.5	435.0
95°	7.5	106.9	286.0	364.3	377.8
97.5°	9.0	90.3	248.4	317.6	331.2
100°	9.0	78.3	215.2	278.5	290.5
102.5°	9.0	69.2	188.2	243.8	254.4
105°	10.5	61.7	165.6	216.8	225.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	12.0	40.6	114.4	153.5	159.6
115°	12.0	34.6	102.4	137.0	143.0
117.5°	13.5	30.1	90.3	123.4	127.9
120°	13.5	25.6	79.8	109.9	115.9
122.5°	13.5	21.1	70.7	99.3	103.9
125°	12.0	16.6	61.7	88.8	93.3
127.5°	10.5	13.5	52.7	79.8	84.3
130°	10.5	12.0	45.2	70.7	75.3
132.5°	10.5	13.5	37.6	61.7	67.7
135°	10.5	13.5	31.6	54.2	60.2
137.5°	10.5	13.5	25.6	46.7	52.7
140°	12.0	13.5	21.1	39.1	45.2
142.5°	13.5	13.5	16.6	33.1	37.6
145°	15.1	13.5	15.1	27.1	31.6
147.5°	15.1	15.1	15.1	21.1	25.6
150°	15.1	16.6	15.1	16.6	21.1
152.5°	15.1	16.6	15.1	13.5	16.6
155°	15.1	16.6	15.1	13.5	15.1
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	10.5	54.2	146.0	192.7	200.2
110°	10.5	48.2	129.4	171.6	179.1



(END OF REPORT)