

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: P827112

Luminaire Tested: **OHBL-18SE-MCL-UNV-L840-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827112
REPORT IS A COMBINATION OF REPORTS P826066 AND G3-2310-221-12
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18SE-MCL-UNV-L840-CD-UPL12
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS AND 1200 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

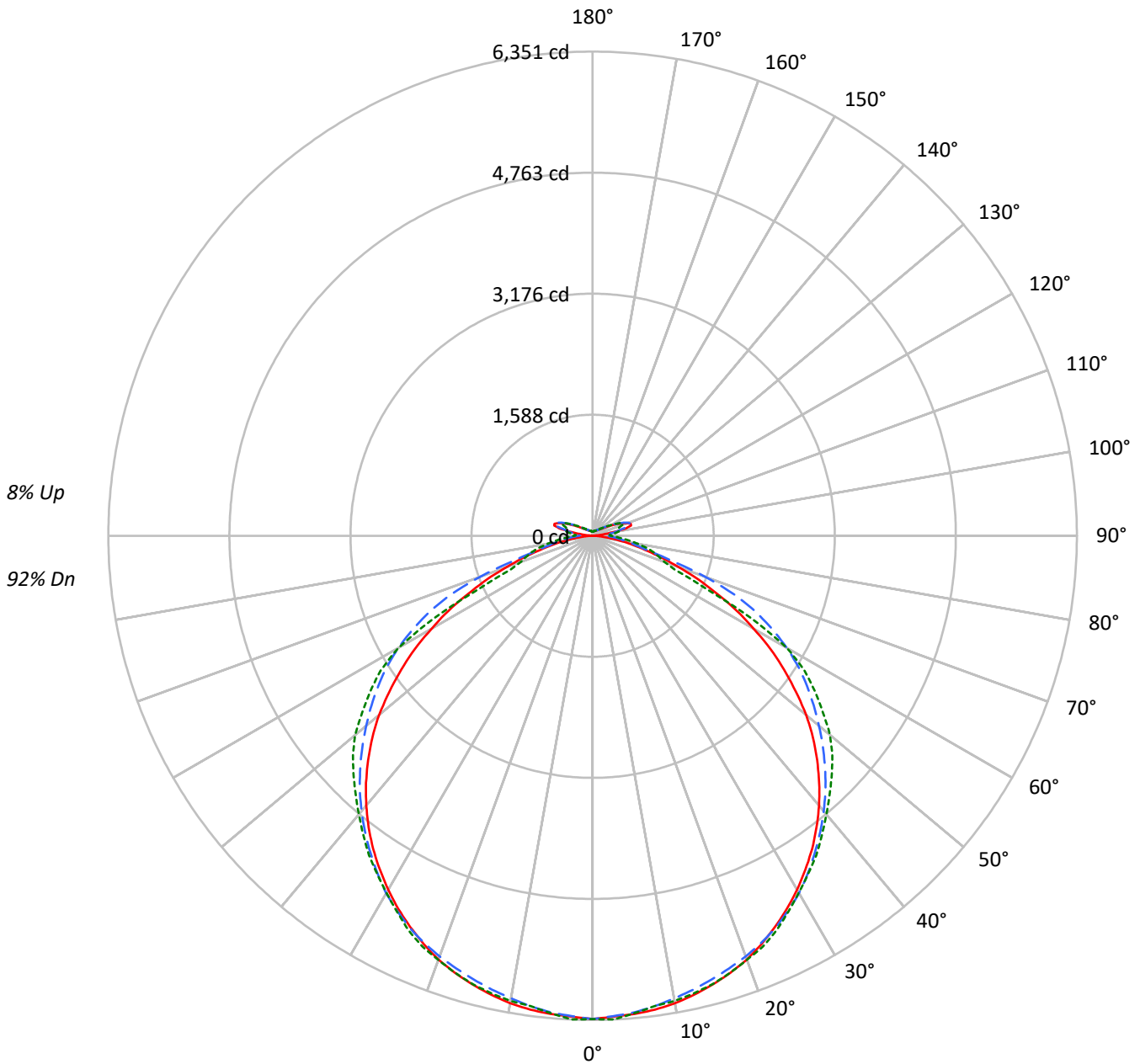
Lumens per Lamp: N/A
Luminaire Lumens: 19160.3 lumens
Efficiency: N/A
Efficacy: 169.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 113.4
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									
RC	80									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																
RCR																																					
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	92																			
1	107	103	99	95	104	100	96	93	94	91	88	89	87	84	84	82	81	78																			
2	98	90	83	78	95	87	81	76	83	78	73	78	74	71	74	71	68	65																			
3	89	79	71	65	86	77	70	64	73	67	62	69	64	60	66	61	58	55																			
4	82	70	62	55	79	68	60	54	65	58	53	62	56	51	59	54	50	47																			
5	75	63	54	47	73	61	53	47	58	51	45	55	49	44	53	47	43	41																			
6	69	56	47	41	67	55	47	41	52	45	40	50	44	39	48	42	38	36																			
7	64	51	42	36	62	50	42	36	48	40	35	46	39	34	44	38	34	32																			
8	60	46	38	32	58	45	37	32	43	36	31	42	35	31	40	34	30	28																			
9	56	43	34	29	54	42	34	29	40	33	28	38	32	28	37	31	27	25																			
10	52	39	31	26	51	38	31	26	37	30	26	36	29	25	34	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10826	10826	10826
5°	10703	10664	10736
10°	10612	10498	10662
15°	10492	10372	10636
20°	10372	10291	10589
25°	10192	10209	10545
30°	9998	10084	10398
35°	9776	9887	10344
40°	9501	9683	10254
45°	9142	9448	10258
50°	8677	9181	10259
55°	7983	8917	9972
60°	7100	8534	9331
65°	5984	7830	6006
70°	4703	6100	4450
75°	3400	3611	4664
80°	2226	2988	4701
85°	1115	2713	4944



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	597.6	3.1
10°-20°	1713.8	8.9
20°-30°	2617.5	13.7
30°-40°	3175.9	16.6
40°-50°	3328.6	17.4
50°-60°	3016.2	15.7
60°-70°	2022.3	10.6
70°-80°	908.1	4.7
80°-90°	332.7	1.7
90°-100°	218.2	1.1
100°-110°	460.7	2.4
110°-120°	379.0	2.0
120°-130°	183.3	1.0
130°-140°	94.1	0.5
140°-150°	55.6	0.3
150°-160°	33.4	0.2
160°-170°	17.9	0.1
170°-180°	5.5	0.0
0°-30°	4928.9	25.7
0°-40°	8104.8	42.3
0°-60°	14449.6	75.4
0°-90°	17712.7	92.4
90°-120°	1057.9	5.5
90°-150°	1390.9	7.3
90°-180°	1448.0	7.6
0°-180°	19160.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6338	6338	6338	6338	6338	
5°	6297	6319	6275	6294	6286	599
15°	6093	6069	6026	6079	6086	1720
25°	5660	5635	5675	5727	5711	2609
35°	5017	5029	5080	5134	5114	3136
45°	4164	4231	4310	4420	4434	3207
55°	3064	3211	3430	3568	3560	2735
65°	1798	2080	2361	1992	1627	1792
75°	708	1026	755	773	823	773
85°	122	234	300	362	379	149
90°	4	96	179	225	238	9
95°	26	107	192	245	267	83
105°	521	532	488	372	350	493
115°	367	371	388	392	388	367
125°	182	190	204	204	206	170
135°	110	114	119	125	126	88
145°	83	86	87	89	91	53
155°	69	71	72	73	72	32
165°	62	62	63	63	63	18
175°	57	57	56	55	55	6
180°	55	55	55	55	55	



TEST NUMBER: P827112

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6338.3	6338.3	6338.3	6338.3	6338.3
2.5°	6312.7	6339.3	6306.3	6342.0	6351.2
5°	6297.1	6319.1	6275.1	6294.4	6286.1
7.5°	6268.7	6276.0	6223.8	6239.4	6222.9
10°	6226.5	6222.9	6161.5	6191.7	6195.4
12.5°	6164.2	6153.2	6098.2	6144.0	6145.0
15°	6092.7	6068.9	6025.8	6079.0	6086.3
17.5°	6010.2	5979.1	5950.7	6019.4	6008.4
20°	5914.0	5877.4	5871.9	5947.0	5919.5
22.5°	5794.9	5766.5	5779.3	5850.8	5833.4
25°	5660.2	5635.4	5674.8	5727.1	5710.6
27.5°	5518.1	5503.4	5548.3	5588.7	5556.6
30°	5362.3	5354.0	5413.6	5446.6	5406.3
32.5°	5192.7	5195.5	5252.3	5297.2	5259.7
35°	5016.8	5028.7	5080.0	5134.1	5113.9
37.5°	4823.4	4850.0	4901.3	4962.7	4941.6
40°	4619.0	4657.5	4714.3	4788.6	4769.3
42.5°	4398.2	4446.7	4520.1	4602.5	4600.7
45°	4163.5	4231.4	4310.2	4420.2	4433.9
47.5°	3919.8	3995.8	4095.7	4242.4	4263.4
50°	3654.9	3750.2	3874.9	4050.8	4063.7
52.5°	3359.8	3489.9	3654.9	3823.5	3808.0
55°	3063.8	3211.3	3430.4	3567.8	3559.6
57.5°	2768.7	2934.6	3200.3	3298.4	3297.5
60°	2438.7	2648.6	2939.1	3013.4	2940.1
62.5°	2133.6	2359.0	2660.5	2606.5	2355.3
65°	1798.1	2079.5	2360.8	1992.4	1626.7
67.5°	1500.3	1793.5	2005.2	1364.6	1168.5
70°	1200.6	1524.1	1563.5	1012.7	999.0
72.5°	934.8	1279.4	1078.7	867.0	911.0
75°	707.5	1026.5	755.2	772.6	823.0
77.5°	516.0	788.2	587.5	677.3	718.5
80°	354.7	558.1	479.3	569.1	597.5
82.5°	222.7	368.4	384.0	458.2	487.6
85°	121.9	233.7	299.7	362.0	379.4
87.5°	50.4	141.1	229.1	279.5	294.2
90°	3.9	95.9	178.9	225.3	238.5
92.5°	9.9	82.6	164.5	210.7	222.1
95°	25.9	106.6	192.3	245.2	266.9
97.5°	136.8	185.5	254.9	303.2	316.9
100°	278.7	329.1	321.2	347.8	355.6
102.5°	442.7	458.7	378.3	361.2	358.9
105°	520.7	532.1	488.2	372.2	350.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	424.4	433.8	449.2	441.4	426.2
115°	367.3	371.0	387.6	391.9	387.7
117.5°	309.3	315.2	331.9	334.4	334.2
120°	260.3	267.2	281.2	281.7	282.7
122.5°	220.3	225.3	238.4	240.0	241.9
125°	182.4	190.3	203.5	204.2	206.2
127.5°	154.3	160.3	174.7	176.4	177.3
130°	135.3	140.2	149.8	154.5	154.5
132.5°	122.2	126.2	132.9	137.6	138.6
135°	110.2	114.2	119.1	124.7	125.6
137.5°	103.2	105.2	108.2	113.7	115.7
140°	95.2	98.2	99.2	103.9	104.8
142.5°	88.2	91.2	92.2	96.0	97.9
145°	83.2	86.2	87.2	89.1	91.0
147.5°	79.2	81.2	83.2	83.2	85.1
150°	76.2	77.2	78.2	79.2	79.2
152.5°	72.2	73.2	74.2	75.2	75.2
155°	69.2	71.1	72.1	73.1	72.2
157.5°	66.2	69.1	69.1	70.1	70.1
160°	64.2	66.1	67.1	67.1	67.1
162.5°	63.1	64.1	64.1	65.1	65.1
165°	62.1	62.1	63.1	63.1	63.1
167.5°	60.1	61.0	61.1	61.1	61.1
170°	59.1	59.1	59.1	59.2	59.2
172.5°	58.1	58.1	58.1	57.2	57.2
175°	57.1	57.1	56.2	55.2	55.2
177.5°	57.0	57.1	56.2	55.2	54.3
180°	55.2	55.2	55.2	55.2	55.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	524.6	539.4	525.9	427.1	364.9
110°	481.5	497.7	498.6	465.8	416.7



(END OF REPORT)