

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: P827113

Luminaire Tested: **OHBL-18SE-MCL-UNV-L840-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827113
REPORT IS A COMBINATION OF REPORTS P826162 AND G3-2310-221-8
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-UPL18
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS AND 1800 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

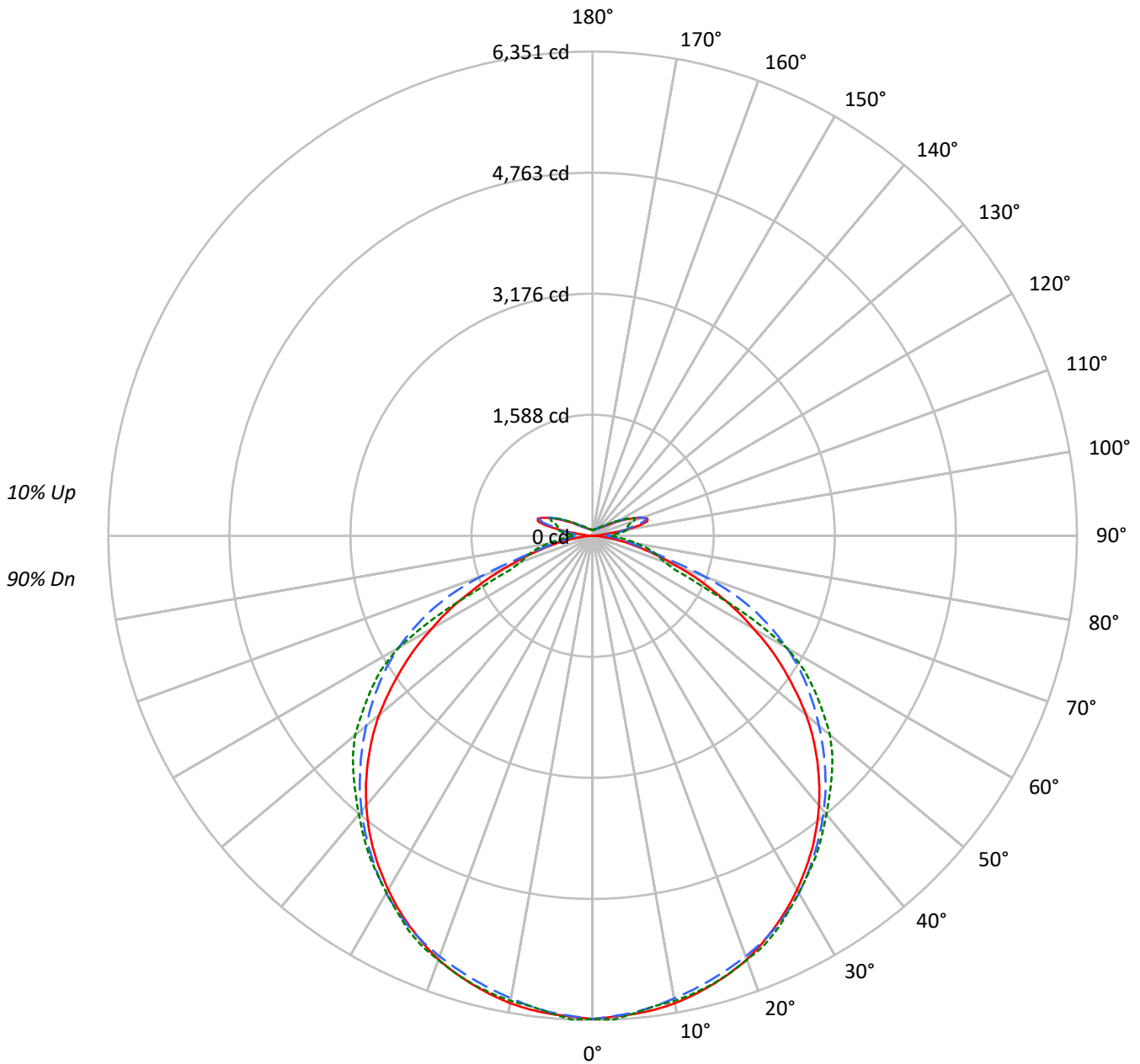
Lumens per Lamp: N/A
Luminaire Lumens: 19704.9 lumens
Efficiency: N/A
Efficacy: 168.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 117.3
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	113	113	113	113	105	105	105	99	99	99	93	93	93	90																			
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	79	76																			
2	97	89	83	77	94	87	81	76	82	77	72	77	73	69	72	69	66	64																			
3	89	79	71	64	86	76	69	63	72	66	61	68	63	59	64	60	56	54																			
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	46																			
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	40																			
6	69	56	47	41	66	54	46	40	52	45	39	49	43	38	47	41	37	35																			
7	64	51	42	36	62	49	41	36	47	40	35	45	38	34	42	37	33	31																			
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	27																			
9	55	42	34	29	53	41	34	28	39	33	28	38	31	27	36	30	26	25																			
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	22																			

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	3.0
10°-20°	1713.8	8.7
20°-30°	2617.5	13.3
30°-40°	3175.9	16.1
40°-50°	3328.6	16.9
50°-60°	3016.2	15.3
60°-70°	2022.3	10.3
70°-80°	908.1	4.6
80°-90°	334.0	1.7
90°-100°	270.4	1.4
100°-110°	641.4	3.3
110°-120°	534.3	2.7
120°-130°	258.3	1.3
130°-140°	131.5	0.7
140°-150°	77.1	0.4
150°-160°	46.0	0.2
160°-170°	24.4	0.1
170°-180°	7.5	0.0
0°-30°	4928.9	25.0
0°-40°	8104.8	41.1
0°-60°	14449.6	73.3
0°-90°	17714.0	89.9
90°-120°	1446.2	7.3
90°-150°	1913.0	9.7
90°-180°	1991.0	10.1
0°-180°	19704.9	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°	5	103	189	239	254	10
95°	39	131	235	296	324	121
105°	745	755	678	504	473	707
115°	520	530	545	546	547	524
125°	256	269	286	287	286	242
135°	156	160	166	173	175	124
145°	116	119	122	124	125	74
155°	95	98	99	100	99	45
165°	84	85	85	86	86	24
175°	77	77	77	76	76	7
180°	76	76	76	76	76	



TEST NUMBER: P827113

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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°	4.9	102.9	188.9	239.3	253.5
92.5°	13.9	92.6	181.5	232.7	247.1
95°	38.9	130.6	235.3	296.2	323.9
97.5°	196.8	251.5	326.9	389.2	408.9
100°	404.7	454.1	428.2	460.8	469.6
102.5°	632.7	653.7	516.3	485.2	481.9
105°	744.7	755.1	678.2	504.2	473.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	608.4	618.8	625.2	617.4	594.2
115°	520.3	530.0	544.6	545.9	546.7
117.5°	444.3	449.2	464.9	468.4	471.2
120°	372.3	380.2	396.2	397.7	396.7
122.5°	312.3	321.3	336.4	338.0	336.9
125°	256.4	269.3	285.5	287.2	286.2
127.5°	219.3	228.3	244.7	246.4	245.3
130°	191.3	199.2	209.8	214.5	215.5
132.5°	173.2	177.2	185.9	190.6	192.6
135°	156.2	160.2	166.1	172.7	174.6
137.5°	144.2	147.2	151.2	157.7	159.7
140°	133.2	136.2	138.2	143.9	145.8
142.5°	123.2	127.2	129.2	133.0	134.9
145°	116.2	119.2	122.2	124.1	125.0
147.5°	110.2	112.2	114.2	116.2	117.1
150°	104.2	106.2	108.2	109.2	110.2
152.5°	100.2	101.2	103.2	104.2	104.2
155°	95.2	98.1	99.1	100.1	99.2
157.5°	92.2	94.1	95.1	96.1	96.1
160°	89.2	90.1	91.1	92.1	92.1
162.5°	87.1	87.1	88.1	89.1	89.1
165°	84.1	85.1	85.1	86.1	86.1
167.5°	82.1	83.0	83.1	83.1	84.1
170°	80.1	80.1	81.1	80.2	80.2
172.5°	78.1	79.1	79.1	78.2	78.2
175°	77.1	77.1	77.2	76.2	76.2
177.5°	77.0	77.1	76.2	75.2	74.3
180°	76.2	76.2	76.2	76.2	76.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	752.6	765.4	734.9	590.1	504.9
110°	690.5	707.7	700.6	648.8	581.7



(END OF REPORT)