

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: P827062

Luminaire Tested: **OHBL-12SE-N-UNV-L840-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827062
REPORT IS A COMBINATION OF REPORTS P826152 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-12SE-N-UNV-L840-CD-UPL18
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS AND 1800 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

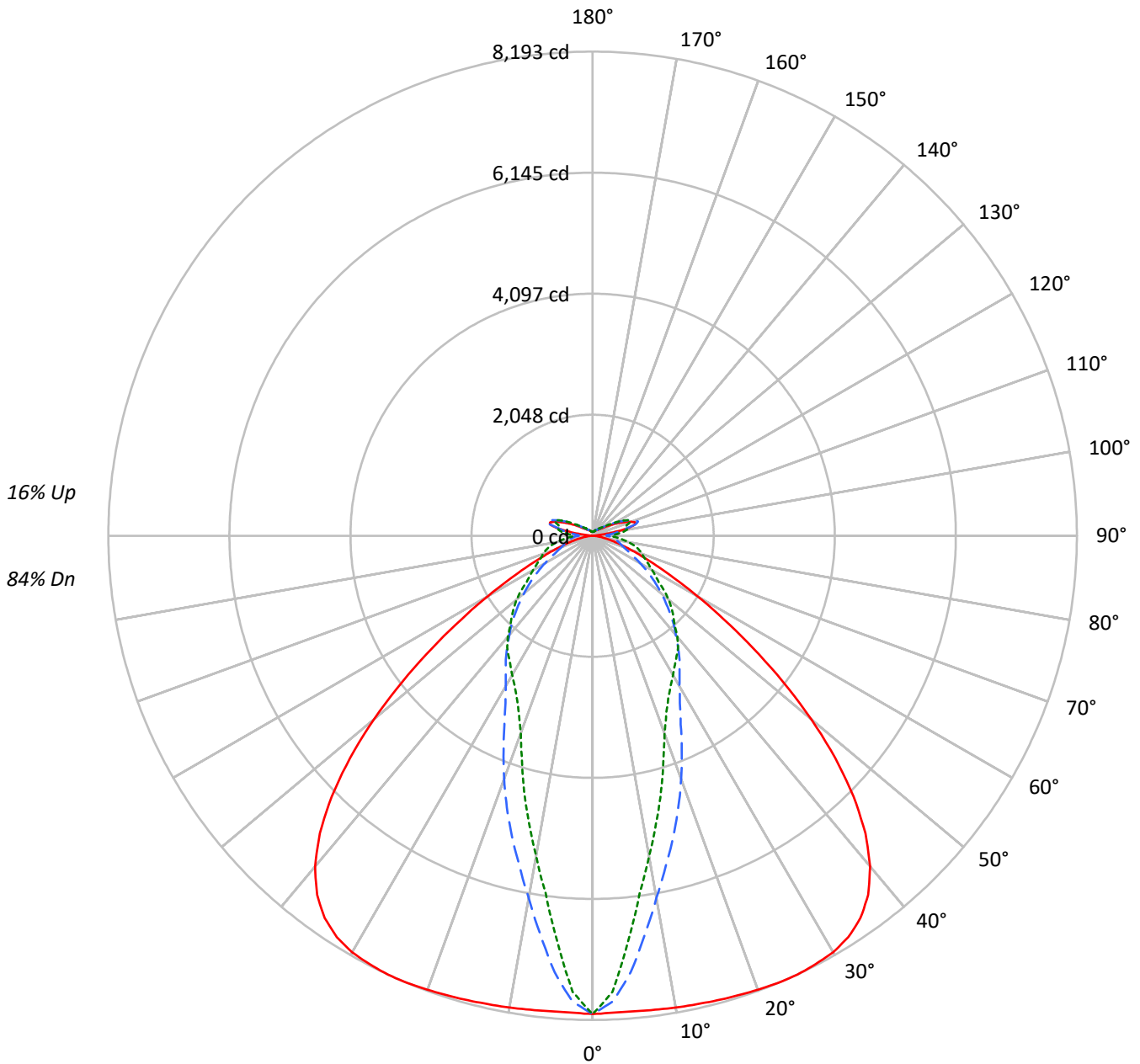
Lumens per Lamp: N/A
Luminaire Lumens: 13734.9 lumens
Efficiency: N/A
Efficacy: 166.9 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 82.3
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	115	115	115	115	111	111	111	111	102	102	102	95	95	95	87	87	87	84																			
1	106	101	98	94	102	98	94	91	91	88	85	84	82	80	78	76	75	72																			
2	97	90	84	79	93	87	81	76	81	76	72	75	71	68	70	67	65	62																			
3	90	80	73	67	86	77	71	65	72	67	62	68	63	59	63	59	56	54																			
4	83	72	64	58	79	70	62	57	65	59	54	61	56	52	57	53	50	47																			
5	77	65	57	51	74	63	56	50	59	53	48	56	50	46	52	48	44	42																			
6	71	59	51	45	68	57	50	44	54	48	43	51	46	41	48	43	40	38																			
7	66	54	46	41	64	53	45	40	50	43	39	47	41	37	44	40	36	34																			
8	62	50	42	37	60	48	41	36	46	40	35	44	38	34	41	36	33	31																			
9	58	46	39	33	56	45	38	33	43	36	32	40	35	31	38	34	30	28																			
10	55	43	35	31	53	42	35	30	40	34	29	38	32	29	36	31	28	26																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26330	26330	26330
5°	25946	23846	22403
10°	25910	19976	18051
15°	26081	16990	14890
20°	26465	14285	12105
25°	27009	11755	10664
30°	27542	10064	9964
35°	27680	9111	9553
40°	26743	8170	9126
45°	24133	7323	8516
50°	19915	6409	8067
55°	14741	5553	7259
60°	10005	4699	7045
65°	6462	3980	7021
70°	4180	3654	7549
75°	2682	3653	8364
80°	1630	3859	9155
85°	751	4438	10916



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	681.3	5.0
10°-20°	1602.7	11.7
20°-30°	2009.0	14.6
30°-40°	2131.7	15.5
40°-50°	1927.4	14.0
50°-60°	1397.5	10.2
60°-70°	877.0	6.4
70°-80°	580.4	4.2
80°-90°	338.8	2.5
90°-100°	333.2	2.4
100°-110°	706.4	5.1
110°-120°	579.9	4.2
120°-130°	278.7	2.0
130°-140°	137.9	1.0
140°-150°	79.5	0.6
150°-160°	45.2	0.3
160°-170°	21.5	0.2
170°-180°	6.6	0.0
0°-30°	4293.0	31.3
0°-40°	6424.7	46.8
0°-60°	9749.6	71.0
0°-90°	11545.9	84.1
90°-120°	1619.5	11.8
90°-150°	2115.7	15.4
90°-180°	2189.0	15.9
0°-180°	13734.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8093	8093	8093	8093	8093	
5°	8077	7870	7408	7064	6886	772
15°	8139	6634	5269	4686	4473	2308
25°	8193	5129	3528	3131	3032	3785
35°	7899	3410	2560	2480	2480	4911
45°	6245	2160	1856	1900	1933	4757
55°	3306	1339	1211	1313	1360	2987
65°	1182	776	701	898	998	1230
75°	365	418	471	731	775	407
85°	64	173	344	479	440	77
90°	4	97	234	326	334	7
95°	41	133	305	406	441	122
105°	747	768	754	610	581	709
115°	522	543	604	620	621	526
125°	259	274	313	324	321	243
135°	156	160	175	188	189	123
145°	117	120	125	132	131	74
155°	95	100	101	103	102	43
165°	74	75	75	76	76	21
175°	67	67	68	68	68	6
180°	67	67	67	67	67	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8093.4	8093.4	8093.4	8093.4	8093.4
2.5°	8076.4	8030.2	7886.2	7798.4	7724.4
5°	8077.2	7870.0	7407.8	7064.3	6886.3
7.5°	8088.8	7628.1	6795.4	6294.0	6098.3
10°	8106.5	7328.5	6223.9	5689.3	5506.8
12.5°	8119.6	6991.1	5720.9	5171.7	4971.4
15°	8138.8	6633.7	5268.7	4685.6	4473.0
17.5°	8156.5	6297.1	4822.0	4212.7	3976.2
20°	8174.3	5934.3	4375.2	3747.4	3552.6
22.5°	8191.2	5551.4	3939.2	3386.2	3252.9
25°	8192.7	5129.3	3527.9	3131.2	3031.8
27.5°	8172.7	4691.8	3194.4	2917.8	2856.2
30°	8138.1	4267.4	2935.6	2763.8	2719.9
32.5°	8051.8	3834.5	2735.3	2615.1	2589.7
35°	7899.3	3410.0	2560.4	2480.3	2479.5
37.5°	7658.9	3033.4	2370.9	2357.1	2374.0
40°	7303.8	2703.7	2191.5	2228.4	2228.4
42.5°	6830.1	2417.2	2028.9	2066.7	2056.7
45°	6244.7	2159.9	1855.6	1900.3	1932.6
47.5°	5566.1	1933.4	1678.4	1764.7	1809.4
50°	4828.1	1717.7	1516.7	1626.8	1677.7
52.5°	4054.8	1518.2	1358.8	1485.1	1525.9
55°	3306.1	1338.8	1210.9	1313.3	1360.3
57.5°	2628.2	1167.8	1066.1	1163.1	1260.2
60°	2045.1	1020.6	929.7	1068.4	1165.4
62.5°	1562.1	889.7	801.9	979.8	1076.9
65°	1182.4	776.4	701.0	898.2	998.3
67.5°	891.2	678.6	622.4	838.8	936.7
70°	669.4	583.9	559.2	801.9	889.7
72.5°	494.5	496.8	509.2	769.5	836.5
75°	365.1	418.3	470.6	731.0	774.9
77.5°	261.1	346.6	436.0	684.8	700.2
80°	181.0	282.7	399.8	623.9	610.8
82.5°	113.2	226.5	367.4	556.9	520.7
85°	63.9	173.3	344.3	479.1	439.8
87.5°	28.5	129.4	301.2	373.6	348.9
90°	4.0	97.4	233.5	326.2	333.5
92.5°	14.5	93.1	239.1	333.3	349.0
95°	41.1	132.8	304.6	405.8	440.6
97.5°	198.9	257.7	402.8	503.8	529.1
100°	406.6	462.1	505.7	575.1	588.8
102.5°	634.4	665.0	593.4	595.6	595.8
105°	747.2	767.9	753.9	610.5	581.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	609.7	632.2	690.3	699.7	678.6
115°	521.5	542.9	604.3	619.8	621.2
117.5°	446.2	460.8	517.5	534.7	536.5
120°	374.2	390.5	440.7	453.9	451.9
122.5°	314.2	329.4	372.9	383.0	380.2
125°	259.2	274.3	312.9	323.5	320.7
127.5°	220.5	231.0	265.4	275.2	272.4
130°	192.5	201.0	225.5	237.3	238.3
132.5°	172.7	177.2	197.1	208.9	210.9
135°	155.7	160.2	175.3	188.0	189.0
137.5°	142.7	148.0	158.2	170.2	171.2
140°	131.7	136.2	143.9	155.1	156.1
142.5°	123.5	127.2	133.3	142.0	143.0
145°	117.2	120.0	124.6	131.7	130.9
147.5°	110.2	113.8	116.6	122.4	121.6
150°	104.2	108.6	110.6	113.9	114.1
152.5°	100.2	103.6	105.6	108.1	107.3
155°	95.2	99.6	101.3	103.1	101.6
157.5°	83.0	84.0	85.0	86.0	86.0
160°	80.0	80.0	81.0	82.0	82.0
162.5°	77.0	77.0	78.0	79.0	79.0
165°	74.0	75.0	75.0	76.0	76.0
167.5°	72.0	72.0	73.0	73.0	74.0
170°	70.0	70.0	71.0	71.0	71.0
172.5°	68.0	69.0	69.0	69.0	69.0
175°	67.0	67.0	68.0	68.0	68.0
177.5°	66.0	67.0	67.0	67.0	67.0
180°	67.0	67.0	67.0	67.0	67.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	754.2	779.6	807.1	687.7	606.1
110°	691.9	721.5	770.1	738.6	675.0



(END OF REPORT)