

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: P827061

Luminaire Tested: **OHBL-12SE-N-UNV-L840-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827061
REPORT IS A COMBINATION OF REPORTS P826056 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-12SE-N-UNV-L840-CD-UPL12
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS AND 1200 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

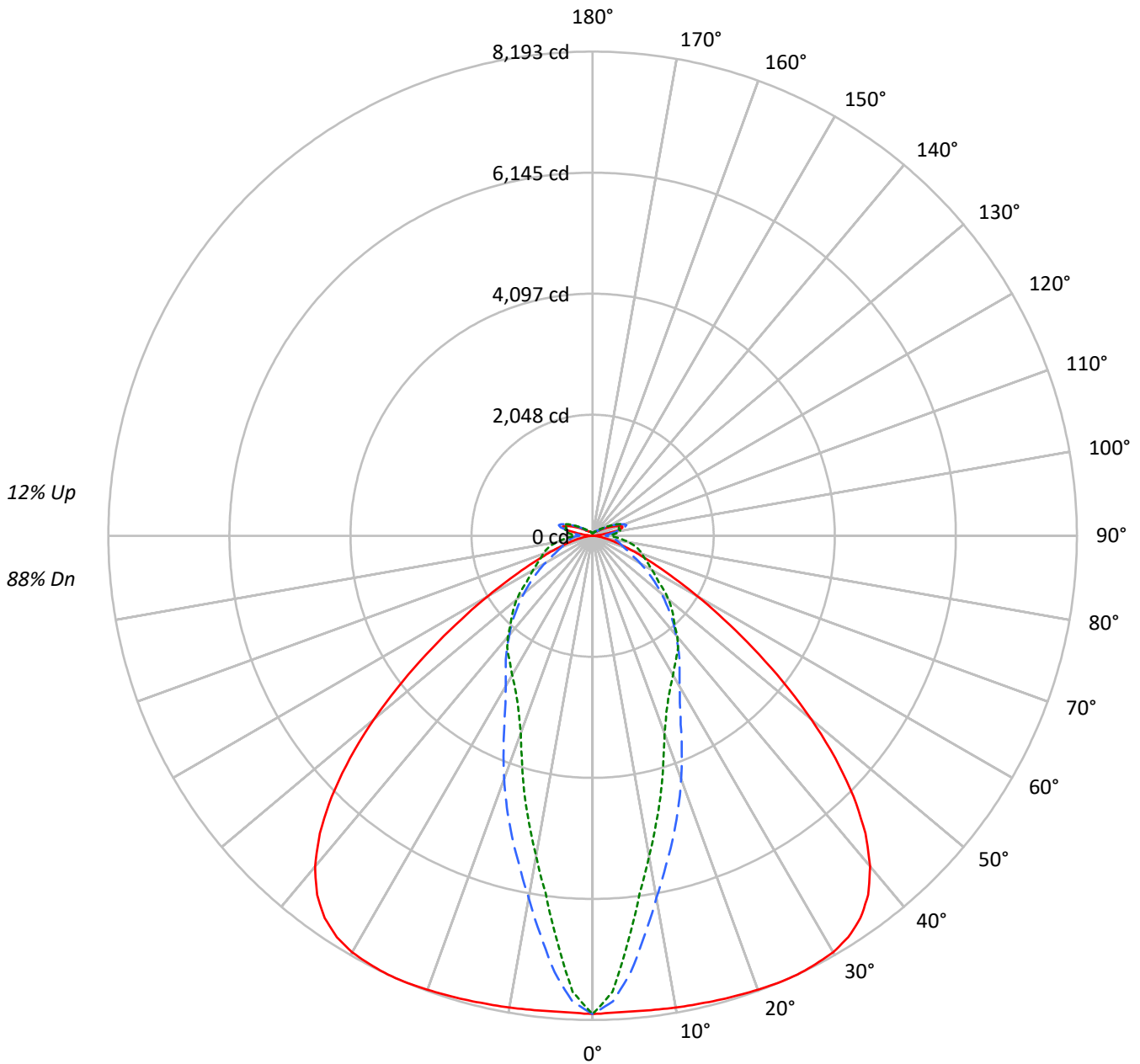
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13190.3 lumens
Efficiency: N/A
Efficacy: 168.2 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): 78.4
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

TEST NUMBER: P827061
CATALOG NUMBER: OHBL-12SE-N-UNV-L840-CD-UPL12

Luminous Intensity Polar Plot





TEST NUMBER: P827061

CATALOG NUMBER: OHBL-12SE-N-UNV-L840-CD-UPL12

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88																			
1	107	102	98	95	103	99	95	92	92	89	87	86	84	82	81	79	78	75																			
2	98	91	84	79	94	88	82	77	82	78	74	77	73	70	72	70	67	64																			
3	90	81	74	68	87	78	72	66	74	68	64	69	65	61	65	62	58	56																			
4	83	73	65	59	80	71	63	58	67	60	56	63	58	54	59	55	52	49																			
5	77	66	58	52	75	64	56	51	60	54	49	57	52	48	54	50	46	44																			
6	72	60	52	46	69	58	51	45	55	49	44	53	47	43	50	45	41	39																			
7	67	55	47	41	65	53	46	41	51	44	40	48	43	38	46	41	37	35																			
8	63	50	43	37	61	49	42	37	47	40	36	45	39	35	43	38	34	32																			
9	59	47	39	34	57	46	38	34	44	37	33	42	36	32	40	35	31	29																			
10	56	43	36	31	54	42	35	31	41	34	30	39	33	29	37	32	29	27																			

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



TEST NUMBER: P827061

CATALOG NUMBER: OHBL-12SE-N-UNV-L840-CD-UPL12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	681.3	5.2
10°-20°	1602.7	12.2
20°-30°	2009.0	15.2
30°-40°	2131.7	16.2
40°-50°	1927.4	14.6
50°-60°	1397.5	10.6
60°-70°	877.0	6.6
70°-80°	580.4	4.4
80°-90°	337.5	2.6
90°-100°	281.0	2.1
100°-110°	525.7	4.0
110°-120°	424.5	3.2
120°-130°	203.8	1.5
130°-140°	100.6	0.8
140°-150°	58.0	0.4
150°-160°	32.6	0.2
160°-170°	15.0	0.1
170°-180°	4.6	0.0
0°-30°	4293.0	32.5
0°-40°	6424.7	48.7
0°-60°	9749.6	73.9
0°-90°	11544.5	87.5
90°-120°	1231.2	9.3
90°-150°	1593.6	12.1
90°-180°	1646.0	12.5
0°-180°	13190.3	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°	3	90	224	312	318	6
95°	28	109	262	355	384	85
105°	523	545	564	478	458	495
115°	368	384	447	466	462	368
125°	185	195	231	240	241	172
135°	110	114	128	140	140	87
145°	84	87	90	97	97	53
155°	69	73	74	76	75	31
165°	52	52	53	53	53	15
175°	47	47	47	47	47	5
180°	46	46	46	46	46	



TEST NUMBER: P827061

CATALOG NUMBER: OHBL-12SE-N-UNV-L840-CD-UPL12

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°	3.0	90.4	223.5	312.2	318.5
92.5°	10.5	83.1	222.1	311.3	324.0
95°	28.1	108.8	261.6	354.8	383.6
97.5°	138.9	191.7	330.8	417.8	437.1
100°	280.6	337.1	398.7	462.1	474.8
102.5°	444.4	470.0	455.4	471.6	472.8
105°	523.2	544.9	563.9	478.5	458.1



TEST NUMBER: P827061

CATALOG NUMBER: OHBL-12SE-N-UNV-L840-CD-UPL12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	425.7	447.2	514.3	523.7	510.6
115°	368.5	383.9	447.3	465.8	462.2
117.5°	311.2	326.8	384.5	400.7	399.5
120°	262.2	277.5	325.7	337.9	337.9
122.5°	222.2	233.4	274.9	285.0	285.2
125°	185.2	195.3	230.9	240.5	240.7
127.5°	155.5	163.0	195.4	205.2	204.4
130°	136.5	142.0	165.5	177.3	177.3
132.5°	121.7	126.2	144.1	155.9	156.9
135°	109.7	114.2	128.3	140.0	140.0
137.5°	101.7	106.0	115.2	126.2	127.2
140°	93.7	98.2	104.9	115.1	115.1
142.5°	88.5	91.2	96.3	105.0	106.0
145°	84.2	87.0	89.6	96.7	96.9
147.5°	79.2	82.8	85.6	89.4	89.6
150°	76.2	79.6	80.6	83.9	83.1
152.5°	72.2	75.6	76.6	79.1	78.3
155°	69.2	72.6	74.3	76.1	74.6
157.5°	57.0	59.0	59.0	60.0	60.0
160°	55.0	56.0	57.0	57.0	57.0
162.5°	53.0	54.0	54.0	55.0	55.0
165°	52.0	52.0	53.0	53.0	53.0
167.5°	50.0	50.0	51.0	51.0	51.0
170°	49.0	49.0	49.0	50.0	50.0
172.5°	48.0	48.0	48.0	48.0	48.0
175°	47.0	47.0	47.0	47.0	47.0
177.5°	46.0	47.0	47.0	47.0	47.0
180°	46.0	46.0	46.0	46.0	46.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	526.2	553.6	598.1	524.7	466.1
110°	482.9	511.5	568.1	555.6	510.0



(END OF REPORT)