

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: P829785

Luminaire Tested: **OHBL-12SE-NL-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829785
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-12SE-NL-UNV-L840-CD
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

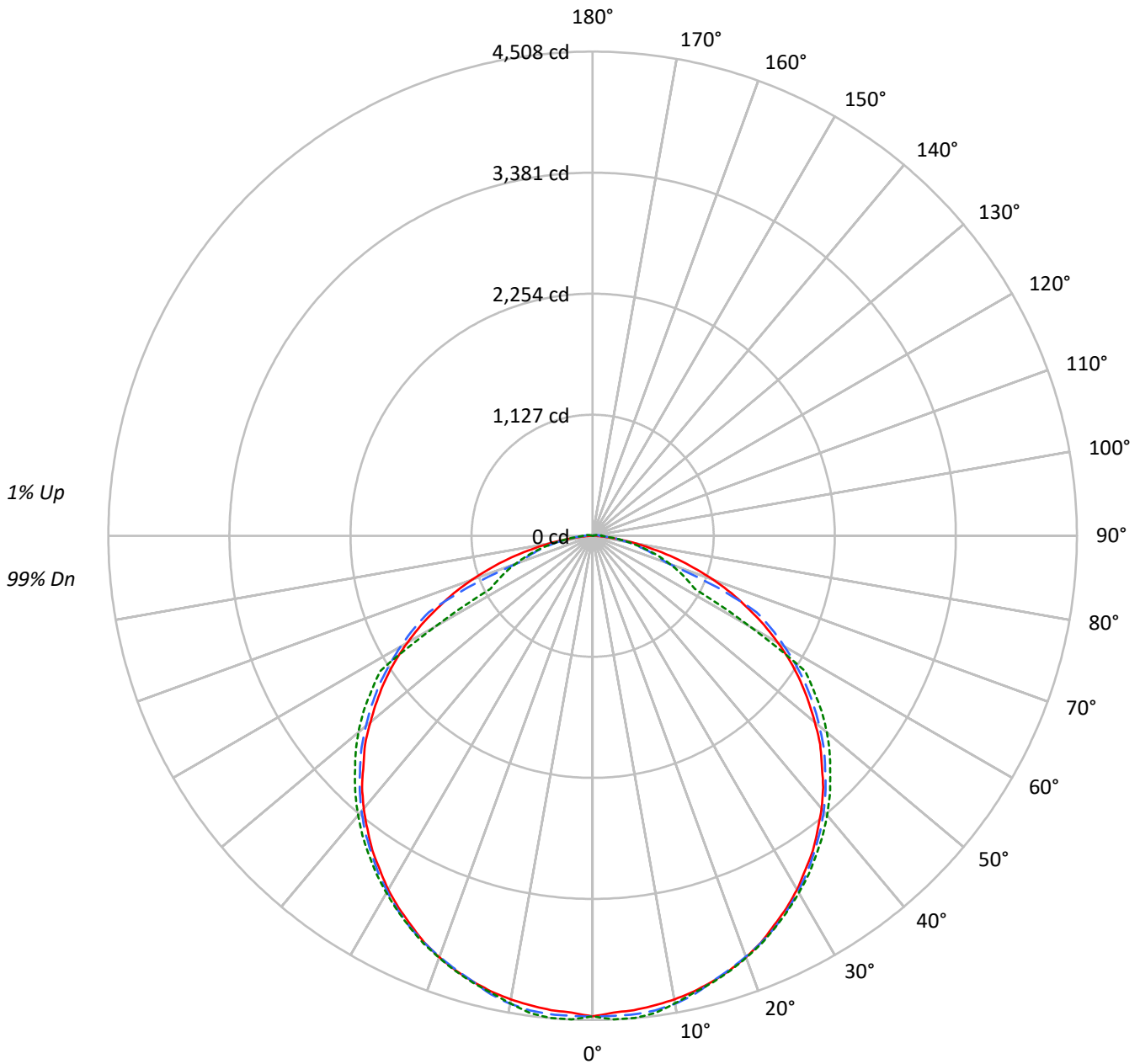
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12563.0 lumens
Efficiency: N/A
Efficacy: 179.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 0.88' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102					99															
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86					84															
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73					71															
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62					60															
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53					51															
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46					44															
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32					30															
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14557	14557	14557
5°	14477	14608	14718
10°	14481	14619	14601
15°	14478	14476	14508
20°	14459	14437	14472
25°	14360	14433	14444
30°	14294	14367	14423
35°	14201	14279	14413
40°	14078	14211	14422
45°	13875	14085	14392
50°	13666	13944	14405
55°	13405	13752	14247
60°	12955	13415	11091
65°	12258	12970	7465
70°	11337	6886	7244
75°	9889	6543	6918
80°	7605	6003	6340
85°	3837	6066	6211



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.1	3.4
10°-20°	1217.2	9.7
20°-30°	1852.1	14.7
30°-40°	2251.8	17.9
40°-50°	2367.7	18.8
50°-60°	2162.0	17.2
60°-70°	1386.0	11.0
70°-80°	654.7	5.2
80°-90°	181.5	1.4
90°-100°	48.1	0.4
100°-110°	13.2	0.1
110°-120°	3.6	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3494.4	27.8
0°-40°	5746.2	45.7
0°-60°	10275.9	81.8
0°-90°	12498.1	99.5
90°-120°	64.9	0.5
90°-150°	64.9	0.5
90°-180°	65.0	0.5
0°-180°	12563.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4475	4475	4475	4475	4475	
5°	4433	4450	4473	4497	4507	422
15°	4299	4331	4298	4304	4307	1214
25°	4000	4007	4021	4027	4024	1846
35°	3576	3554	3595	3639	3629	2235
45°	3016	3010	3061	3134	3128	2331
55°	2363	2345	2425	2505	2512	2108
65°	1592	1592	1685	966	970	1579
75°	787	802	520	548	550	829
85°	103	130	162	176	166	152
90°	0	44	72	86	84	5
95°	2	23	52	70	70	1
105°	4	9	13	13	12	4
115°	4	6	8	6	1	3
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CATALOG NUMBER: OHBL-12SE-NL-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4474.6	4474.6	4474.6	4474.6	4474.6
2.5°	4443.2	4458.2	4474.6	4495.8	4507.5
5°	4433.0	4450.3	4473.0	4497.4	4506.8
7.5°	4411.0	4435.3	4457.3	4474.6	4480.1
10°	4383.5	4412.6	4425.2	4423.6	4419.7
12.5°	4346.6	4377.3	4373.4	4355.2	4358.4
15°	4298.7	4330.9	4298.0	4304.2	4307.4
17.5°	4242.2	4273.6	4235.1	4247.7	4248.5
20°	4176.3	4199.8	4170.0	4180.2	4180.2
22.5°	4097.0	4113.4	4100.9	4107.9	4109.5
25°	4000.4	4006.6	4020.7	4027.1	4023.9
27.5°	3907.8	3899.9	3927.4	3942.3	3934.4
30°	3804.9	3792.3	3824.5	3848.8	3839.4
32.5°	3687.1	3679.3	3716.2	3745.2	3739.7
35°	3575.6	3554.4	3595.2	3639.2	3629.0
37.5°	3443.7	3431.1	3477.4	3523.8	3518.3
40°	3314.9	3293.7	3346.3	3401.3	3395.8
42.5°	3176.8	3151.6	3208.9	3274.9	3268.6
45°	3015.7	3010.3	3061.3	3133.5	3128.1
47.5°	2872.9	2845.4	2916.8	2986.7	2993.1
50°	2700.1	2690.0	2755.1	2839.9	2846.2
52.5°	2531.4	2524.3	2592.5	2678.2	2689.1
55°	2363.3	2345.2	2424.6	2505.4	2511.8
57.5°	2183.6	2164.7	2245.6	2333.5	2346.8
60°	1991.1	1973.1	2061.8	2143.5	1704.6
62.5°	1798.8	1786.2	1878.9	1330.9	1072.6
65°	1592.3	1592.3	1684.9	966.5	969.7
67.5°	1399.2	1386.6	1256.3	868.3	868.3
70°	1191.9	1196.6	723.9	760.9	761.6
72.5°	983.8	1001.1	625.0	654.8	656.4
75°	786.7	801.7	520.5	548.1	550.4
77.5°	577.9	444.4	418.5	439.7	440.5
80°	405.9	280.3	320.4	340.7	338.4
82.5°	237.1	196.3	234.7	249.7	248.9
85°	102.8	130.3	162.5	175.9	166.4
87.5°	32.9	80.9	101.2	109.1	108.3
90°	0.0	44.0	72.2	85.5	84.0
92.5°	0.0	34.5	62.8	78.6	79.3
95°	2.3	22.8	51.9	69.9	69.9
97.5°	1.6	16.5	36.9	54.9	56.5
100°	1.6	13.3	24.4	39.2	40.1
102.5°	3.9	11.0	14.9	25.1	25.9
105°	3.9	8.6	12.6	12.6	11.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.7	6.3	8.6	6.3	0.7
115°	3.9	5.5	7.8	5.5	0.7
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	3.9	7.8	11.0	7.1	2.3
110°	4.7	7.1	9.4	6.3	0.7



(END OF REPORT)