

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: P829761

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829761
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-12SE-MFL-UNV-L840-CD
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

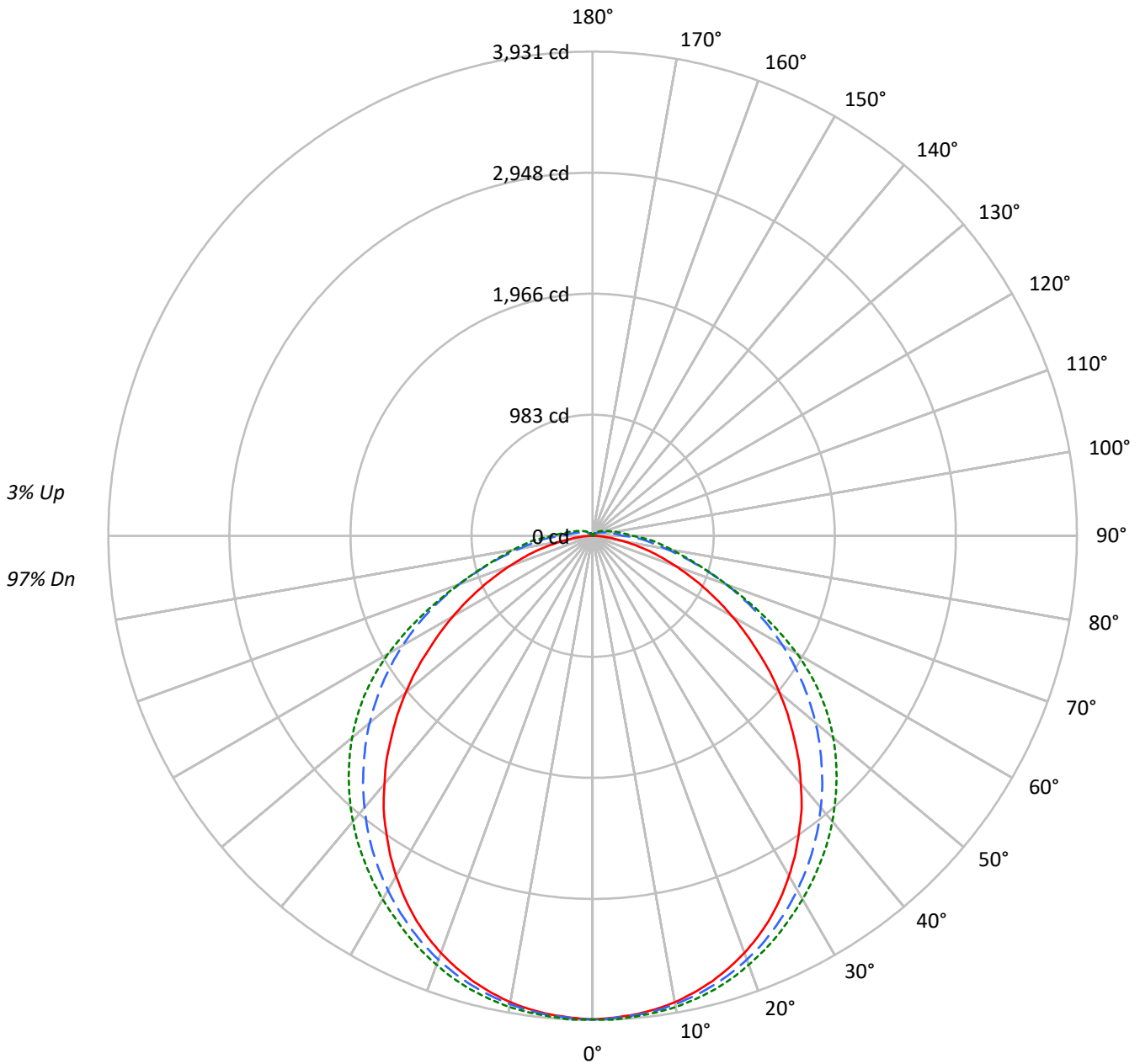
Lumens per Lamp: N/A
Luminaire Lumens: 11754.0 lumens
Efficiency: N/A
Efficacy: 167.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 70
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				20				20
RC	80				70				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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	86	84	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	75	72	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	67	62	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	59	54	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	53	48	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	48	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	44	38	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	37	32	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12777	12777	12777
5°	12695	12581	12588
10°	12606	12396	12417
15°	12466	12191	12228
20°	12279	11957	12000
25°	12029	11683	11769
30°	11683	11391	11535
35°	11265	11085	11313
40°	10762	10739	11086
45°	10170	10366	10821
50°	9521	9984	10514
55°	8724	9529	10085
60°	7908	9002	9381
65°	7017	8350	8342
70°	6051	7543	7226
75°	5073	6611	6355
80°	3846	5808	5877
85°	2432	5501	5803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.1	3.2
10°-20°	1067.6	9.1
20°-30°	1614.6	13.7
30°-40°	1938.3	16.5
40°-50°	2002.0	17.0
50°-60°	1801.2	15.3
60°-70°	1356.8	11.5
70°-80°	819.3	7.0
80°-90°	400.7	3.4
90°-100°	168.7	1.4
100°-110°	96.3	0.8
110°-120°	56.5	0.5
120°-130°	32.0	0.3
130°-140°	16.8	0.1
140°-150°	8.2	0.1
150°-160°	3.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3054.3	26.0
0°-40°	4992.7	42.5
0°-60°	8795.8	74.8
0°-90°	11372.5	96.8
90°-120°	321.4	2.7
90°-150°	378.4	3.2
90°-180°	381.0	3.2
0°-180°	11754.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3927	3927	3927	3927	3927	
5°	3902	3913	3908	3924	3919	371
15°	3745	3763	3780	3812	3816	1056
25°	3420	3457	3506	3561	3570	1573
35°	2924	2992	3115	3209	3229	1828
45°	2308	2424	2627	2770	2800	1782
55°	1635	1804	2078	2235	2262	1466
65°	998	1202	1471	1544	1526	991
75°	470	675	852	874	865	501
85°	98	259	427	485	494	113
90°	0	101	244	308	320	6
95°	5	68	183	233	241	4
105°	7	39	106	138	144	7
115°	8	22	65	88	91	8
125°	8	11	39	57	60	7
135°	7	9	20	35	38	5
145°	10	9	10	17	20	6
155°	10	11	10	9	10	3
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3927.4	3927.4	3927.4	3927.4	3927.4
2.5°	3915.9	3925.5	3919.7	3932.2	3931.2
5°	3902.4	3913.0	3908.2	3923.5	3918.7
7.5°	3879.3	3890.9	3889.9	3907.2	3905.3
10°	3845.7	3858.2	3862.0	3885.1	3885.1
12.5°	3799.5	3815.9	3825.5	3853.4	3854.3
15°	3744.8	3763.0	3780.3	3812.0	3815.9
17.5°	3678.4	3701.5	3725.5	3762.1	3766.9
20°	3603.5	3629.4	3662.1	3700.5	3706.3
22.5°	3517.0	3547.7	3590.0	3635.2	3641.9
25°	3419.9	3457.4	3506.4	3561.2	3569.8
27.5°	3309.3	3352.6	3418.9	3480.4	3488.1
30°	3189.2	3240.1	3322.8	3395.9	3408.3
32.5°	3062.3	3121.0	3222.8	3304.5	3321.8
35°	2923.9	2992.2	3115.2	3209.4	3228.6
37.5°	2787.4	2862.4	3001.8	3109.4	3132.5
40°	2627.9	2721.1	2880.7	2999.8	3027.7
42.5°	2477.9	2578.8	2759.6	2889.3	2916.2
45°	2307.8	2424.1	2626.9	2770.1	2799.9
47.5°	2148.2	2274.2	2499.1	2647.1	2677.9
50°	1980.0	2118.4	2362.6	2517.3	2549.1
52.5°	1811.8	1960.8	2221.3	2381.8	2411.6
55°	1635.0	1804.1	2078.1	2234.7	2261.7
57.5°	1470.6	1649.4	1931.0	2080.0	2096.3
60°	1308.2	1493.7	1781.1	1911.8	1917.6
62.5°	1149.6	1344.7	1627.3	1731.1	1723.4
65°	997.7	1201.5	1470.6	1543.7	1526.4
67.5°	851.6	1062.1	1310.1	1357.2	1334.1
70°	713.2	926.6	1154.4	1178.4	1157.3
72.5°	591.1	797.8	996.7	1016.9	1001.6
75°	470.0	674.7	851.6	873.7	865.1
77.5°	356.6	555.6	718.0	746.8	748.8
80°	256.6	446.9	601.7	646.9	652.6
82.5°	169.2	347.0	504.6	562.3	570.9
85°	98.0	258.6	426.8	485.4	494.0
87.5°	42.3	186.5	343.1	396.0	406.6
90°	0.0	100.9	244.1	307.6	320.1
92.5°	2.9	83.6	209.5	267.2	277.8
95°	4.8	68.2	182.6	232.6	241.3
97.5°	5.8	57.7	158.6	202.8	211.5
100°	5.8	50.0	137.4	177.8	185.5
102.5°	5.8	44.2	120.1	155.7	162.4
105°	6.7	39.4	105.7	138.4	144.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.7	26.0	73.0	98.0	101.9
115°	7.7	22.1	65.4	87.5	91.3
117.5°	8.7	19.2	57.7	78.8	81.7
120°	8.7	16.3	50.9	70.2	74.0
122.5°	8.7	13.5	45.2	63.4	66.3
125°	7.7	10.6	39.4	56.7	59.6
127.5°	6.7	8.7	33.6	50.9	53.8
130°	6.7	7.7	28.8	45.2	48.1
132.5°	6.7	8.7	24.0	39.4	43.3
135°	6.7	8.7	20.2	34.6	38.4
137.5°	6.7	8.7	16.3	29.8	33.6
140°	7.7	8.7	13.5	25.0	28.8
142.5°	8.7	8.7	10.6	21.1	24.0
145°	9.6	8.7	9.6	17.3	20.2
147.5°	9.6	9.6	9.6	13.5	16.3
150°	9.6	10.6	9.6	10.6	13.5
152.5°	9.6	10.6	9.6	8.7	10.6
155°	9.6	10.6	9.6	8.7	9.6
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°	6.7	34.6	93.2	123.0	127.8
110°	6.7	30.8	82.7	109.6	114.4



(END OF REPORT)