

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: P829750

Luminaire Tested: **OHBL-12SE-MCL-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-12SE-MCL-UNV-L850-CD
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

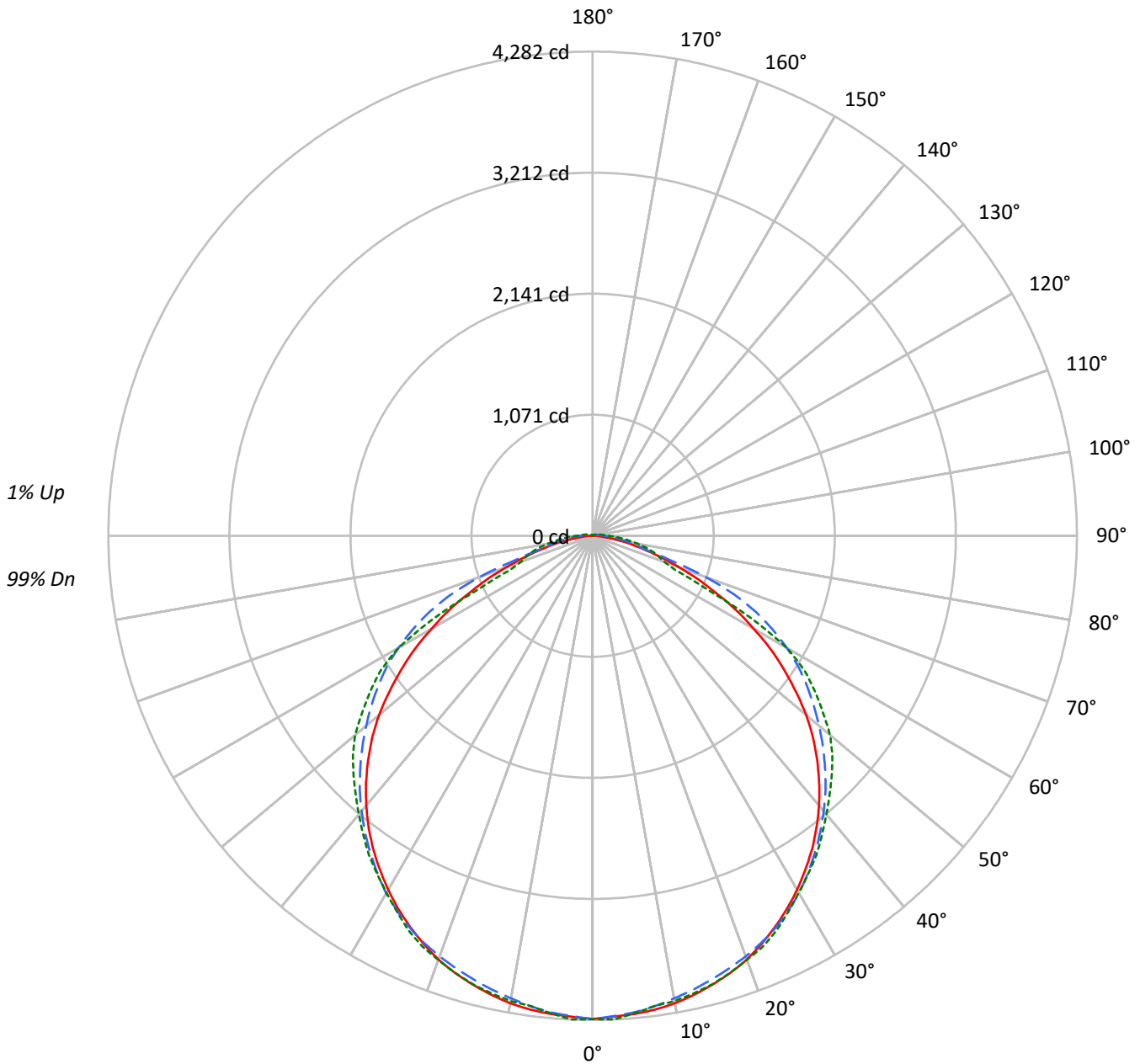
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12079.0 lumens
Efficiency: N/A
Efficacy: 172.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
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									
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	110	110	110	106	106	106	101	101	101					99															
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86					83															
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72					70															
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61					59															
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53					51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46					44															
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40					38															
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36					34															
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32					30															
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29					27															
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26					24															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13903	13903	13903
5°	13812	13619	13614
10°	13762	13334	13351
15°	13675	13102	13150
20°	13587	12926	12922
25°	13423	12749	12694
30°	13245	12514	12336
35°	13032	12188	12082
40°	12754	11850	11775
45°	12370	11468	11553
50°	11850	11040	11301
55°	11023	10606	10701
60°	9940	10016	9698
65°	8527	9038	5994
70°	6868	6888	4205
75°	5149	3953	4077
80°	3584	3120	3628
85°	2040	2605	3005



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.0	3.3
10°-20°	1155.5	9.6
20°-30°	1764.8	14.6
30°-40°	2141.3	17.7
40°-50°	2244.3	18.6
50°-60°	2033.7	16.8
60°-70°	1363.5	11.3
70°-80°	612.3	5.1
80°-90°	222.2	1.8
90°-100°	66.9	0.6
100°-110°	31.6	0.3
110°-120°	15.8	0.1
120°-130°	8.7	0.1
130°-140°	6.0	0.0
140°-150°	4.0	0.0
150°-160°	3.0	0.0
160°-170°	1.9	0.0
170°-180°	0.6	0.0
0°-30°	3323.2	27.5
0°-40°	5464.6	45.2
0°-60°	9742.5	80.7
0°-90°	11940.5	98.9
90°-120°	114.3	0.9
90°-150°	133.0	1.1
90°-180°	139.0	1.2
0°-180°	12079.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4274	4274	4274	4274	4274	
5°	4246	4261	4231	4244	4238	404
15°	4108	4092	4063	4099	4104	1160
25°	3816	3800	3826	3861	3850	1759
35°	3382	3390	3425	3462	3448	2114
45°	2807	2853	2906	2980	2990	2163
55°	2066	2165	2313	2406	2400	1844
65°	1212	1402	1592	1343	1097	1208
75°	477	692	509	521	555	521
85°	82	158	202	244	256	100
90°	1	52	104	131	137	5
95°	1	33	72	87	90	1
105°	2	14	35	43	44	3
115°	5	7	18	23	24	5
125°	4	5	11	13	14	4
135°	6	6	7	10	10	4
145°	6	6	6	7	7	4
155°	6	7	7	7	6	3
165°	7	7	7	7	7	2
175°	7	7	6	6	6	1
180°	6	6	6	6	6	



TEST NUMBER: P829750

CATALOG NUMBER: OHBL-12SE-MCL-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4273.6	4273.6	4273.6	4273.6	4273.6
2.5°	4256.3	4274.2	4251.9	4276.0	4282.2
5°	4245.8	4260.6	4230.9	4243.9	4238.3
7.5°	4226.6	4231.5	4196.3	4206.8	4195.7
10°	4198.2	4195.7	4154.3	4174.7	4177.2
12.5°	4156.2	4148.7	4111.7	4142.6	4143.2
15°	4108.0	4091.9	4062.8	4098.7	4103.6
17.5°	4052.3	4031.3	4012.2	4058.5	4051.1
20°	3987.5	3962.7	3959.0	4009.7	3991.2
22.5°	3907.1	3888.0	3896.6	3944.8	3933.1
25°	3816.3	3799.6	3826.2	3861.4	3850.3
27.5°	3720.5	3710.6	3740.9	3768.1	3746.5
30°	3615.5	3609.9	3650.1	3672.3	3645.1
32.5°	3501.2	3503.0	3541.3	3571.6	3546.3
35°	3382.5	3390.5	3425.2	3461.6	3448.0
37.5°	3252.1	3270.1	3304.7	3346.1	3331.8
40°	3114.3	3140.3	3178.6	3228.7	3215.7
42.5°	2965.4	2998.2	3047.6	3103.2	3102.0
45°	2807.2	2853.0	2906.1	2980.2	2989.5
47.5°	2642.9	2694.1	2761.5	2860.4	2874.6
50°	2464.3	2528.5	2612.6	2731.2	2739.9
52.5°	2265.3	2353.1	2464.3	2578.0	2567.5
55°	2065.7	2165.2	2312.9	2405.6	2400.0
57.5°	1866.7	1978.6	2157.8	2223.9	2223.3
60°	1644.3	1785.8	1981.7	2031.7	1982.3
62.5°	1438.5	1590.5	1793.8	1757.4	1588.1
65°	1212.4	1402.1	1591.8	1343.4	1096.8
67.5°	1011.5	1209.3	1352.0	920.1	787.9
70°	809.5	1027.6	1054.2	682.8	673.5
72.5°	630.3	862.6	727.3	584.6	614.2
75°	477.0	692.1	509.2	520.9	554.9
77.5°	347.9	531.4	396.1	456.6	484.5
80°	239.1	376.3	323.2	383.7	402.9
82.5°	150.2	248.4	258.9	309.0	328.7
85°	82.2	157.6	202.1	244.1	255.8
87.5°	34.0	95.2	154.5	188.5	198.4
90°	0.6	52.5	104.4	131.0	137.2
92.5°	0.6	40.2	85.3	105.7	110.0
95°	0.6	32.7	71.7	87.1	89.6
97.5°	1.2	26.0	59.9	72.3	74.8
100°	1.9	21.6	50.1	60.6	62.4
102.5°	2.5	17.3	42.0	50.7	52.5
105°	2.5	14.2	35.2	42.6	44.5



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CATALOG NUMBER: OHBL-12SE-MCL-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.3	8.7	21.0	26.6	27.8
115°	4.9	7.4	17.9	22.9	24.1
117.5°	4.9	6.2	15.4	19.2	20.4
120°	4.9	5.6	13.6	16.7	17.3
122.5°	4.9	4.9	11.7	14.8	15.4
125°	4.3	4.9	11.1	13.0	13.6
127.5°	4.9	4.9	9.9	11.7	12.4
130°	4.9	5.6	8.7	11.1	11.1
132.5°	5.6	6.2	8.0	10.5	10.5
135°	5.6	6.2	6.8	9.9	10.5
137.5°	6.2	6.2	6.2	9.3	9.9
140°	6.2	6.2	5.6	8.0	8.7
142.5°	5.6	6.2	5.6	7.4	8.0
145°	5.6	6.2	6.2	6.8	7.4
147.5°	6.2	6.2	6.2	6.2	6.8
150°	6.2	6.2	6.2	6.2	6.2
152.5°	6.2	6.2	6.2	6.2	6.2
155°	6.2	6.8	6.8	6.8	6.2
157.5°	6.2	6.8	6.8	6.8	6.8
160°	6.2	6.8	6.8	6.8	6.8
162.5°	6.8	6.8	6.8	6.8	6.8
165°	6.8	6.8	6.8	6.8	6.8
167.5°	6.8	7.4	6.8	6.8	6.8
170°	6.8	6.8	6.8	6.2	6.2
172.5°	6.8	6.8	6.8	6.2	6.2
175°	6.8	6.8	6.2	5.6	5.6
177.5°	7.4	6.8	6.2	5.6	4.9
180°	6.2	6.2	6.2	6.2	6.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	3.1	11.7	30.3	36.5	37.7
110°	3.7	9.9	25.3	30.9	32.1



(END OF REPORT)