

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: P829762

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829762
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-L850-CD
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

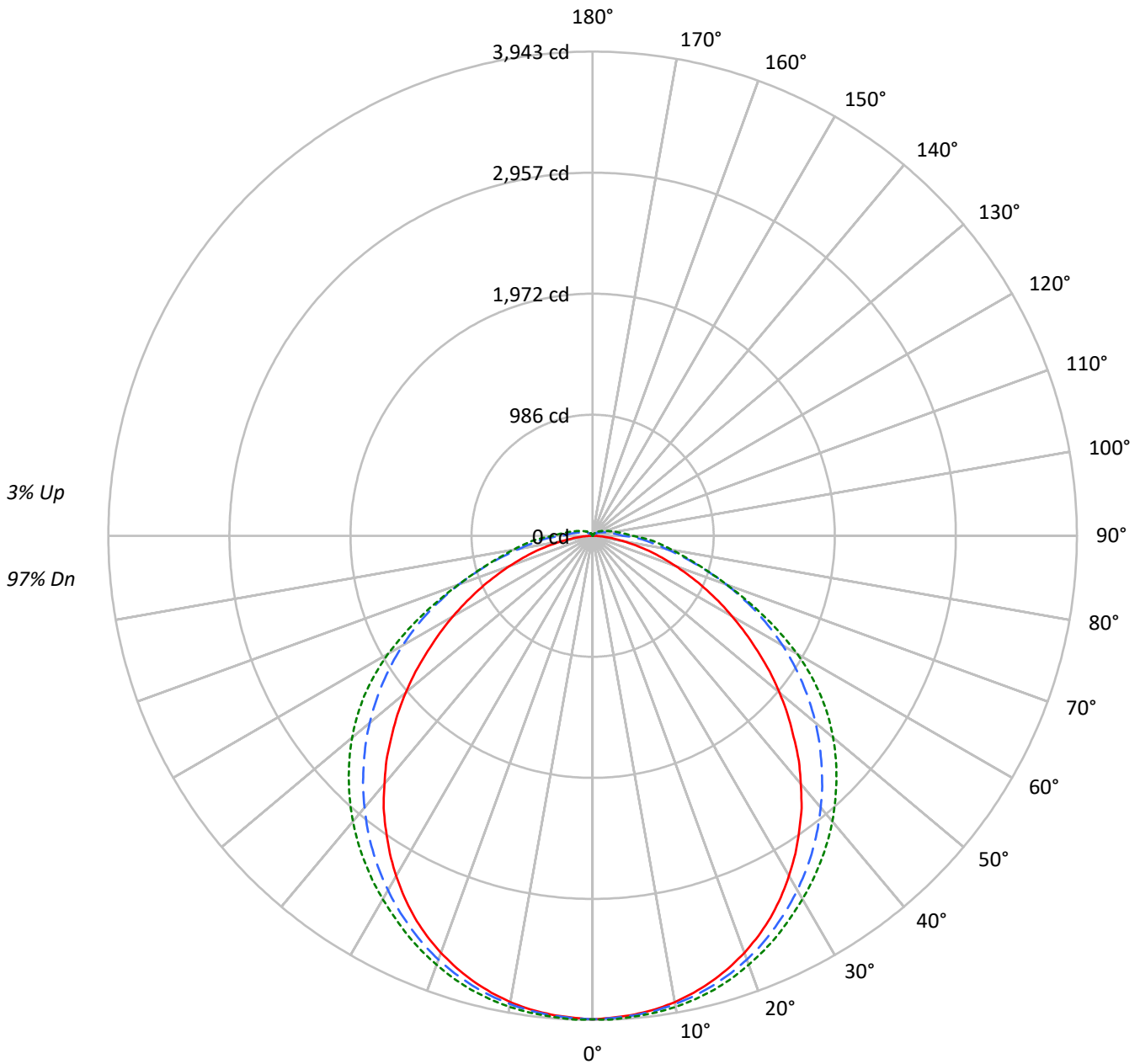
Lumens per Lamp: N/A
Luminaire Lumens: 11788.0 lumens
Efficiency: N/A
Efficacy: 168.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')
CIE Type: Direct

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				
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°	12814	12814	12814
5°	12732	12617	12624
10°	12643	12432	12453
15°	12502	12226	12263
20°	12314	11991	12034
25°	12064	11717	11803
30°	11717	11424	11568
35°	11297	11117	11346
40°	10793	10770	11118
45°	10199	10396	10852
50°	9549	10013	10545
55°	8749	9557	10114
60°	7931	9028	9408
65°	7037	8375	8366
70°	6069	7564	7247
75°	5088	6631	6374
80°	3858	5825	5894
85°	2440	5516	5821



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.2	3.2
10°-20°	1070.7	9.1
20°-30°	1619.3	13.7
30°-40°	1943.9	16.5
40°-50°	2007.8	17.0
50°-60°	1806.4	15.3
60°-70°	1360.7	11.5
70°-80°	821.6	7.0
80°-90°	401.8	3.4
90°-100°	169.1	1.4
100°-110°	96.5	0.8
110°-120°	56.7	0.5
120°-130°	32.1	0.3
130°-140°	16.9	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°	3063.2	26.0
0°-40°	5007.1	42.5
0°-60°	8821.2	74.8
0°-90°	11405.4	96.8
90°-120°	322.4	2.7
90°-150°	379.5	3.2
90°-180°	383.0	3.2
0°-180°	11788.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3939	3939	3939	3939	3939	
5°	3914	3924	3920	3935	3930	372
15°	3756	3774	3791	3823	3827	1059
25°	3430	3467	3516	3572	3580	1578
35°	2932	3001	3124	3219	3238	1833
45°	2314	2431	2634	2778	2808	1787
55°	1640	1809	2084	2241	2268	1470
65°	1001	1205	1475	1548	1531	994
75°	471	677	854	876	868	503
85°	98	259	428	487	496	114
90°	0	101	245	308	321	6
95°	5	68	183	233	242	4
105°	7	40	106	139	145	7
115°	8	22	66	88	92	8
125°	8	11	40	57	60	7
135°	7	9	20	35	39	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3938.7	3938.7	3938.7	3938.7	3938.7
2.5°	3927.2	3936.8	3931.0	3943.6	3942.6
5°	3913.7	3924.3	3919.5	3934.9	3930.1
7.5°	3890.5	3902.1	3901.2	3918.5	3916.6
10°	3856.8	3869.3	3873.2	3896.3	3896.3
12.5°	3810.5	3826.9	3836.6	3864.5	3865.5
15°	3755.6	3773.9	3791.3	3823.1	3826.9
17.5°	3689.1	3712.2	3736.3	3772.9	3777.8
20°	3613.9	3639.9	3672.7	3711.3	3717.0
22.5°	3527.1	3558.0	3600.4	3645.7	3652.4
25°	3429.8	3467.4	3516.5	3571.5	3580.2
27.5°	3318.9	3362.3	3428.8	3490.5	3498.2
30°	3198.4	3249.5	3332.4	3405.7	3418.2
32.5°	3071.2	3130.0	3232.2	3314.1	3331.5
35°	2932.4	3000.8	3124.2	3218.7	3237.9
37.5°	2795.5	2870.7	3010.5	3118.4	3141.5
40°	2635.5	2729.0	2889.0	3008.5	3036.5
42.5°	2485.1	2586.3	2767.5	2897.7	2924.7
45°	2314.5	2431.1	2634.5	2778.1	2808.0
47.5°	2154.5	2280.7	2506.3	2654.7	2685.6
50°	1985.8	2124.6	2369.4	2524.6	2556.4
52.5°	1817.1	1966.5	2227.7	2388.7	2418.6
55°	1639.7	1809.4	2084.1	2241.2	2268.2
57.5°	1474.9	1654.2	1936.6	2086.0	2102.4
60°	1312.0	1498.0	1786.2	1917.3	1923.1
62.5°	1152.9	1348.6	1632.0	1736.1	1728.4
65°	1000.6	1205.0	1474.9	1548.1	1530.8
67.5°	854.1	1065.2	1313.9	1361.1	1338.0
70°	715.3	929.3	1157.7	1181.8	1160.6
72.5°	592.8	800.1	999.6	1019.9	1004.4
75°	471.4	676.7	854.1	876.2	867.6
77.5°	357.6	557.2	720.1	749.0	750.9
80°	257.4	448.2	603.4	648.7	654.5
82.5°	169.7	348.0	506.1	563.9	572.6
85°	98.3	259.3	428.0	486.8	495.5
87.5°	42.4	187.0	344.1	397.2	407.8
90°	0.0	101.2	244.8	308.5	321.0
92.5°	2.9	83.9	210.1	268.0	278.6
95°	4.8	68.4	183.2	233.3	242.0
97.5°	5.8	57.8	159.1	203.4	212.1
100°	5.8	50.1	137.8	178.3	186.0
102.5°	5.8	44.3	120.5	156.2	162.9
105°	6.7	39.5	106.0	138.8	144.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.7	26.0	73.3	98.3	102.2
115°	7.7	22.2	65.5	87.7	91.6
117.5°	8.7	19.3	57.8	79.0	81.9
120°	8.7	16.4	51.1	70.4	74.2
122.5°	8.7	13.5	45.3	63.6	66.5
125°	7.7	10.6	39.5	56.9	59.8
127.5°	6.7	8.7	33.7	51.1	54.0
130°	6.7	7.7	28.9	45.3	48.2
132.5°	6.7	8.7	24.1	39.5	43.4
135°	6.7	8.7	20.2	34.7	38.6
137.5°	6.7	8.7	16.4	29.9	33.7
140°	7.7	8.7	13.5	25.1	28.9
142.5°	8.7	8.7	10.6	21.2	24.1
145°	9.6	8.7	9.6	17.4	20.2
147.5°	9.6	9.6	9.6	13.5	16.4
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	34.7	93.5	123.4	128.2
110°	6.7	30.8	82.9	109.9	114.7



(END OF REPORT)