

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: P830914

Luminaire Tested: **OHBL-9HE-MFL-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830914
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-9HE-MFL-UNV-L850-CD
Description: 9000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

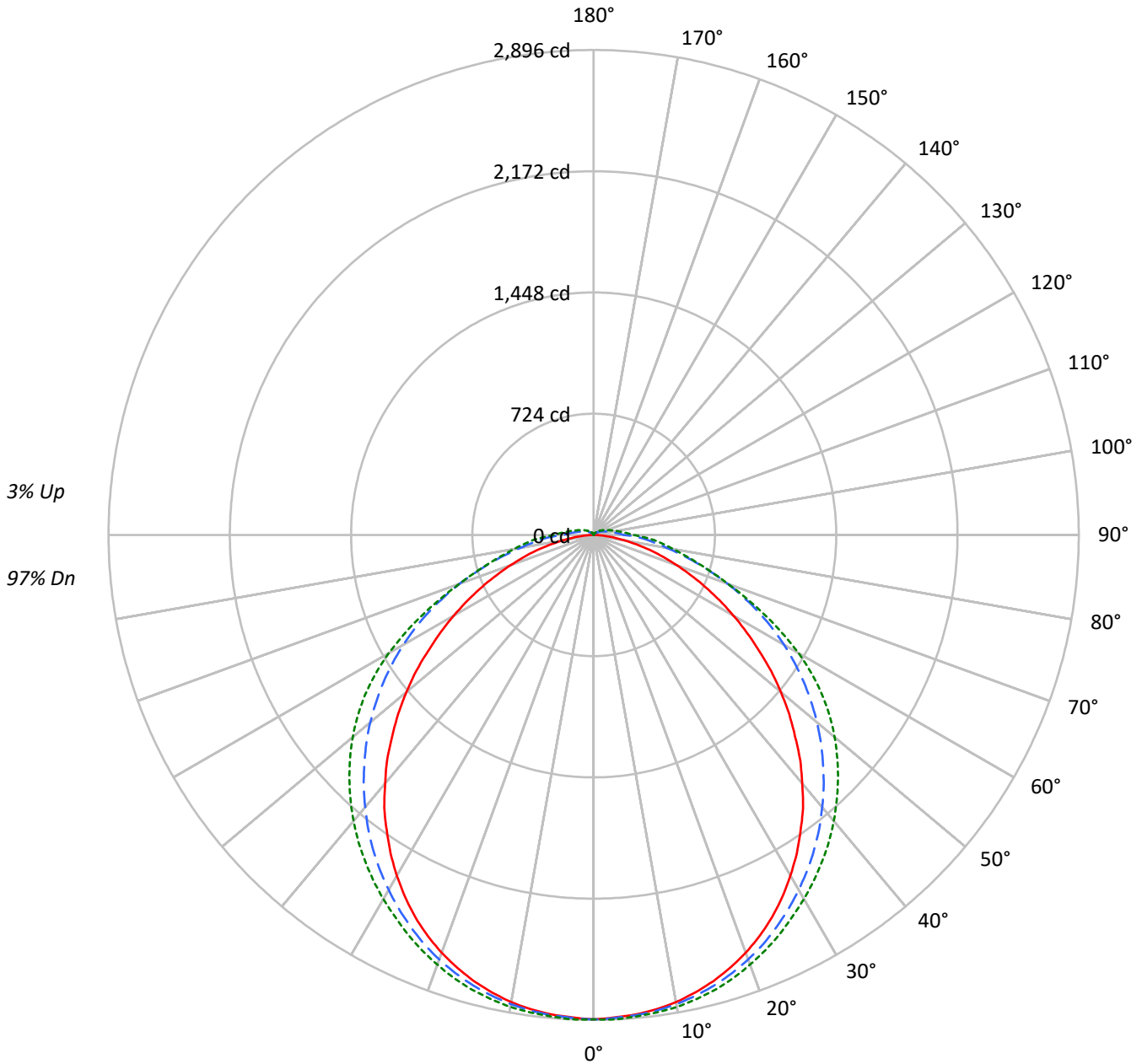
Lumens per Lamp: N/A
Luminaire Lumens: 8659.0 lumens
Efficiency: N/A
Efficacy: 166.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 52
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°	4942	4942	4942
5°	4910	4893	4907
10°	4876	4847	4878
15°	4821	4793	4841
20°	4749	4728	4788
25°	4652	4647	4735
30°	4519	4560	4682
35°	4357	4466	4635
40°	4162	4359	4588
45°	3933	4242	4529
50°	3683	4124	4458
55°	3374	3980	4341
60°	3058	3810	4113
65°	2714	3593	3742
70°	2340	3318	3340
75°	1962	3000	3062
80°	1488	2763	3017
85°	941	2846	3328



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.1	3.2
10°-20°	786.5	9.1
20°-30°	1189.4	13.7
30°-40°	1427.9	16.5
40°-50°	1474.8	17.0
50°-60°	1326.9	15.3
60°-70°	999.5	11.5
70°-80°	603.6	7.0
80°-90°	295.2	3.4
90°-100°	124.2	1.4
100°-110°	70.9	0.8
110°-120°	41.6	0.5
120°-130°	23.6	0.3
130°-140°	12.4	0.1
140°-150°	6.0	0.1
150°-160°	2.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2250.1	26.0
0°-40°	3678.0	42.5
0°-60°	6479.7	74.8
0°-90°	8378.0	96.8
90°-120°	236.8	2.7
90°-150°	278.8	3.2
90°-180°	281.0	3.2
0°-180°	8659.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2893	2893	2893	2893	2893	
5°	2875	2883	2879	2890	2887	273
15°	2759	2772	2785	2808	2811	778
25°	2519	2547	2583	2624	2630	1159
35°	2154	2204	2295	2364	2378	1347
45°	1700	1786	1935	2041	2063	1313
55°	1204	1329	1531	1646	1666	1080
65°	735	885	1083	1137	1124	730
75°	346	497	627	644	637	369
85°	72	190	314	358	364	83
90°	0	74	180	227	236	5
95°	4	50	134	171	178	3
105°	5	29	78	102	106	5
115°	6	16	48	64	67	6
125°	6	8	29	42	44	5
135°	5	6	15	26	28	4
145°	7	6	7	13	15	4
155°	7	8	7	6	7	2
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°	2893.2	2893.2	2893.2	2893.2	2893.2
2.5°	2884.8	2891.8	2887.6	2896.8	2896.1
5°	2874.8	2882.6	2879.1	2890.4	2886.9
7.5°	2857.8	2866.3	2865.6	2878.4	2877.0
10°	2833.1	2842.3	2845.1	2862.1	2862.1
12.5°	2799.1	2811.1	2818.2	2838.7	2839.4
15°	2758.7	2772.2	2784.9	2808.3	2811.1
17.5°	2709.9	2726.8	2744.5	2771.5	2775.0
20°	2654.6	2673.7	2697.8	2726.1	2730.4
22.5°	2590.9	2613.6	2644.7	2678.0	2682.9
25°	2519.4	2547.0	2583.1	2623.5	2629.8
27.5°	2437.9	2469.8	2518.7	2564.0	2569.7
30°	2349.4	2387.0	2447.9	2501.7	2510.9
32.5°	2256.0	2299.2	2374.2	2434.4	2447.2
35°	2154.0	2204.3	2294.9	2364.3	2378.5
37.5°	2053.5	2108.7	2211.4	2290.7	2307.7
40°	1935.9	2004.6	2122.1	2209.9	2230.5
42.5°	1825.5	1899.8	2032.9	2128.5	2148.3
45°	1700.1	1785.8	1935.2	2040.7	2062.7
47.5°	1582.6	1675.3	1841.0	1950.1	1972.7
50°	1458.7	1560.6	1740.5	1854.5	1877.8
52.5°	1334.7	1444.5	1636.4	1754.6	1776.6
55°	1204.5	1329.1	1530.9	1646.3	1666.1
57.5°	1083.4	1215.1	1422.5	1532.3	1544.3
60°	963.7	1100.4	1312.1	1408.4	1412.6
62.5°	846.9	990.6	1198.8	1275.3	1269.6
65°	735.0	885.1	1083.4	1137.2	1124.4
67.5°	627.4	782.4	965.1	999.8	982.8
70°	525.4	682.6	850.4	868.1	852.5
72.5°	435.5	587.7	734.3	749.2	737.8
75°	346.3	497.1	627.4	643.7	637.3
77.5°	262.7	409.3	528.9	550.2	551.6
80°	189.1	329.3	443.3	476.5	480.8
82.5°	124.6	255.6	371.7	414.2	420.6
85°	72.2	190.5	314.4	357.6	364.0
87.5°	31.2	137.4	252.8	291.7	299.5
90°	0.0	74.3	179.9	226.6	235.8
92.5°	2.1	61.6	154.4	196.8	204.6
95°	3.5	50.3	134.5	171.4	177.7
97.5°	4.2	42.5	116.8	149.4	155.8
100°	4.2	36.8	101.3	131.0	136.7
102.5°	4.2	32.6	88.5	114.7	119.7
105°	5.0	29.0	77.9	102.0	106.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.7	19.1	53.8	72.2	75.1
115°	5.7	16.3	48.1	64.4	67.3
117.5°	6.4	14.2	42.5	58.1	60.2
120°	6.4	12.0	37.5	51.7	54.5
122.5°	6.4	9.9	33.3	46.7	48.9
125°	5.7	7.8	29.0	41.8	43.9
127.5°	5.0	6.4	24.8	37.5	39.7
130°	5.0	5.7	21.2	33.3	35.4
132.5°	5.0	6.4	17.7	29.0	31.9
135°	5.0	6.4	14.9	25.5	28.3
137.5°	5.0	6.4	12.0	22.0	24.8
140°	5.7	6.4	9.9	18.4	21.2
142.5°	6.4	6.4	7.8	15.6	17.7
145°	7.1	6.4	7.1	12.7	14.9
147.5°	7.1	7.1	7.1	9.9	12.0
150°	7.1	7.8	7.1	7.8	9.9
152.5°	7.1	7.8	7.1	6.4	7.8
155°	7.1	7.8	7.1	6.4	7.1
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°	5.0	25.5	68.7	90.6	94.2
110°	5.0	22.7	60.9	80.7	84.3



(END OF REPORT)