

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: P830902

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830902
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-9HE-MCL-UNV-L850-CD
Description: 9000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

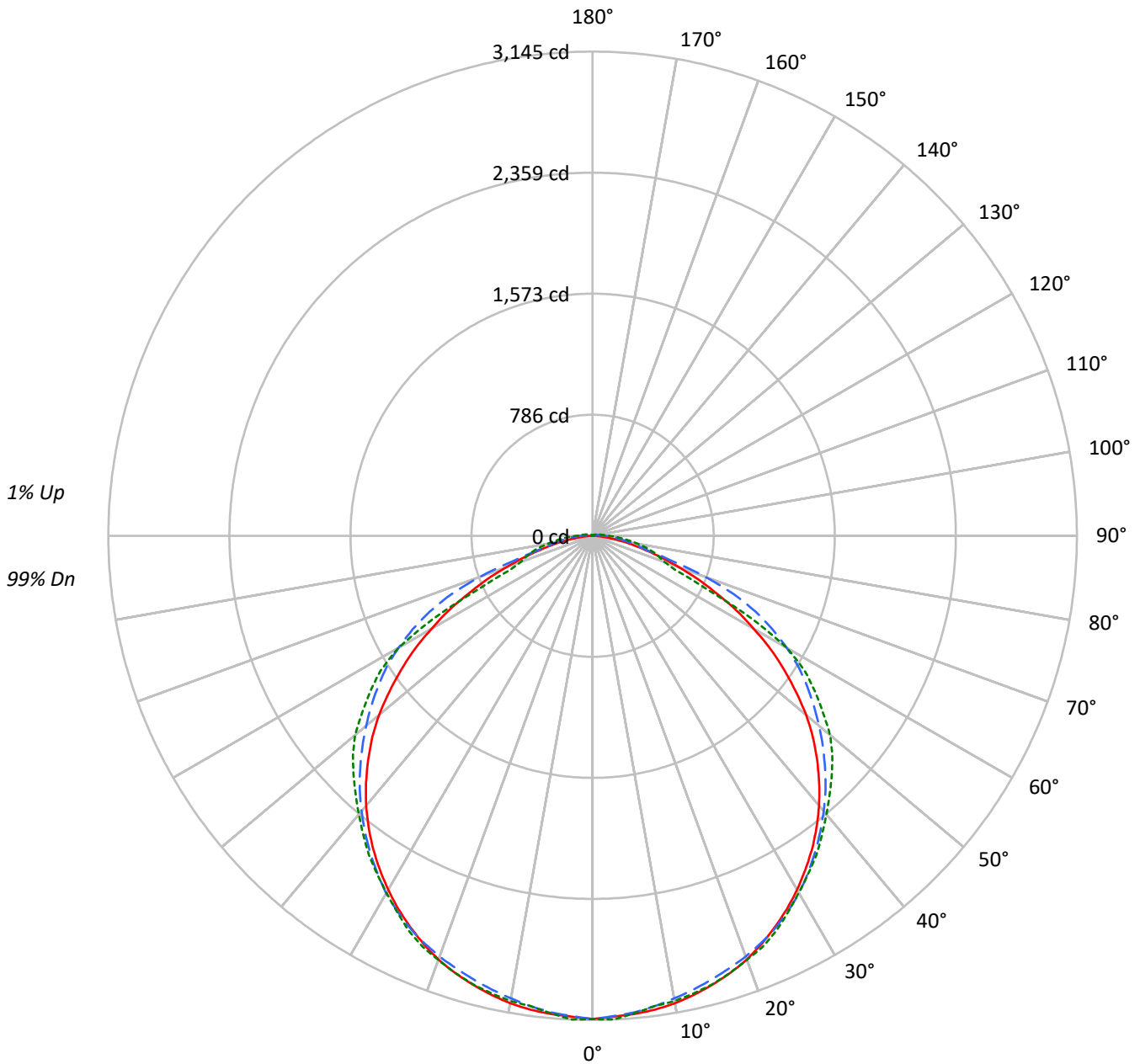
Lumens per Lamp: N/A
Luminaire Lumens: 8872.0 lumens
Efficiency: N/A
Efficacy: 170.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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									
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°	5361	5361	5361
5°	5326	5281	5291
10°	5307	5199	5229
15°	5273	5137	5191
20°	5239	5096	5141
25°	5176	5056	5092
30°	5107	4994	4992
35°	5025	4896	4935
40°	4918	4795	4858
45°	4770	4679	4822
50°	4569	4547	4778
55°	4251	4416	4593
60°	3833	4226	4239
65°	3288	3878	2681
70°	2649	3021	1938
75°	1986	1788	1959
80°	1382	1480	1857
85°	787	1343	1718



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.0	3.3
10°-20°	848.7	9.6
20°-30°	1296.2	14.6
30°-40°	1572.8	17.7
40°-50°	1648.4	18.6
50°-60°	1493.7	16.8
60°-70°	1001.5	11.3
70°-80°	449.7	5.1
80°-90°	163.2	1.8
90°-100°	49.1	0.6
100°-110°	23.2	0.3
110°-120°	11.6	0.1
120°-130°	6.4	0.1
130°-140°	4.4	0.0
140°-150°	2.9	0.0
150°-160°	2.2	0.0
160°-170°	1.4	0.0
170°-180°	0.4	0.0
0°-30°	2440.9	27.5
0°-40°	4013.7	45.2
0°-60°	7155.8	80.7
0°-90°	8770.2	98.9
90°-120°	83.9	0.9
90°-150°	97.7	1.1
90°-180°	102.0	1.1
0°-180°	8872.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3139	3139	3139	3139	3139	
5°	3118	3129	3108	3117	3113	297
15°	3017	3006	2984	3010	3014	852
25°	2803	2791	2810	2836	2828	1292
35°	2484	2490	2516	2542	2533	1553
45°	2062	2096	2134	2189	2196	1588
55°	1517	1590	1699	1767	1763	1354
65°	890	1030	1169	987	806	887
75°	350	508	374	383	408	383
85°	60	116	148	179	188	74
90°	0	39	77	96	101	4
95°	0	24	53	64	66	1
105°	2	10	26	31	33	2
115°	4	5	13	17	18	3
125°	3	4	8	10	10	3
135°	4	4	5	7	8	3
145°	4	4	4	5	5	3
155°	4	5	5	5	4	2
165°	5	5	5	5	5	1
175°	5	5	4	4	4	0
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3138.9	3138.9	3138.9	3138.9	<i>3138.9</i>
2.5°	<i>3126.2</i>	<i>3139.4</i>	<i>3123.0</i>	<i>3140.7</i>	<i>3145.3</i>
5°	3118.5	3129.4	3107.6	3117.1	<i>3113.1</i>
7.5°	3104.4	3108.1	3082.2	3089.9	<i>3081.7</i>
10°	3083.5	3081.7	3051.3	3066.3	<i>3068.1</i>
12.5°	3052.7	3047.2	3020.0	3042.7	<i>3043.2</i>
15°	3017.3	3005.5	2984.2	3010.5	<i>3014.1</i>
17.5°	2976.4	2961.0	2946.9	2981.0	<i>2975.5</i>
20°	2928.8	2910.6	2907.9	2945.1	<i>2931.5</i>
22.5°	2869.8	2855.7	2862.1	2897.5	<i>2888.8</i>
25°	2803.1	2790.8	2810.3	2836.2	<i>2828.0</i>
27.5°	2732.7	2725.5	2747.7	2767.7	<i>2751.8</i>
30°	2655.6	2651.5	2681.0	2697.3	<i>2677.3</i>
32.5°	2571.6	2573.0	2601.1	2623.3	<i>2604.7</i>
35°	2484.4	2490.3	2515.8	2542.5	<i>2532.6</i>
37.5°	2388.7	2401.8	2427.3	2457.7	<i>2447.2</i>
40°	2287.5	2306.5	2334.7	2371.4	<i>2361.9</i>
42.5°	2178.1	2202.1	2238.5	2279.3	<i>2278.4</i>
45°	2061.9	2095.5	2134.5	2189.0	<i>2195.8</i>
47.5°	1941.2	1978.8	2028.3	2100.9	<i>2111.4</i>
50°	1810.0	1857.2	1918.9	2006.1	<i>2012.4</i>
52.5°	1663.9	1728.3	1810.0	1893.5	<i>1885.8</i>
55°	1517.3	1590.3	1698.8	1766.9	<i>1762.8</i>
57.5°	1371.1	1453.3	1584.9	1633.5	<i>1633.0</i>
60°	1207.7	1311.7	1455.5	1492.3	<i>1456.0</i>
62.5°	1056.6	1168.2	1317.6	1290.8	<i>1166.4</i>
65°	890.5	1029.8	1169.2	986.7	<i>805.6</i>
67.5°	743.0	888.2	993.1	675.8	<i>578.7</i>
70°	594.6	754.8	774.3	501.5	<i>494.7</i>
72.5°	462.9	633.6	534.2	429.4	<i>451.1</i>
75°	350.4	508.3	374.0	382.6	<i>407.6</i>
77.5°	255.5	390.3	290.9	335.4	<i>355.8</i>
80°	175.6	276.4	237.4	281.8	<i>295.9</i>
82.5°	110.3	182.5	190.2	226.9	<i>241.5</i>
85°	60.4	115.7	148.4	179.3	<i>187.9</i>
87.5°	25.0	69.9	113.5	138.4	<i>145.7</i>
90°	0.5	38.6	76.7	96.2	<i>100.8</i>
92.5°	0.5	29.5	62.6	77.6	<i>80.8</i>
95°	0.5	24.1	52.6	64.0	<i>65.8</i>
97.5°	0.9	19.1	44.0	53.1	<i>54.9</i>
100°	1.4	15.9	36.8	44.5	<i>45.8</i>
102.5°	1.8	12.7	30.9	37.2	<i>38.6</i>
105°	1.8	10.4	25.9	31.3	<i>32.7</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.2	6.4	15.4	19.5	20.4
115°	3.6	5.4	13.2	16.8	17.7
117.5°	3.6	4.5	11.3	14.1	15.0
120°	3.6	4.1	10.0	12.3	12.7
122.5°	3.6	3.6	8.6	10.9	11.3
125°	3.2	3.6	8.2	9.5	10.0
127.5°	3.6	3.6	7.3	8.6	9.1
130°	3.6	4.1	6.4	8.2	8.2
132.5°	4.1	4.5	5.9	7.7	7.7
135°	4.1	4.5	5.0	7.3	7.7
137.5°	4.5	4.5	4.5	6.8	7.3
140°	4.5	4.5	4.1	5.9	6.4
142.5°	4.1	4.5	4.1	5.4	5.9
145°	4.1	4.5	4.5	5.0	5.4
147.5°	4.5	4.5	4.5	4.5	5.0
150°	4.5	4.5	4.5	4.5	4.5
152.5°	4.5	4.5	4.5	4.5	4.5
155°	4.5	5.0	5.0	5.0	4.5
157.5°	4.5	5.0	5.0	5.0	5.0
160°	4.5	5.0	5.0	5.0	5.0
162.5°	5.0	5.0	5.0	5.0	5.0
165°	5.0	5.0	5.0	5.0	5.0
167.5°	5.0	5.4	5.0	5.0	5.0
170°	5.0	5.0	5.0	4.5	4.5
172.5°	5.0	5.0	5.0	4.5	4.5
175°	5.0	5.0	4.5	4.1	4.1
177.5°	5.4	5.0	4.5	4.1	3.6
180°	4.5	4.5	4.5	4.5	4.5



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	2.3	8.6	22.2	26.8	27.7
110°	2.7	7.3	18.6	22.7	23.6



(END OF REPORT)