

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: P829594

Luminaire Tested: **OHB-9SE-A-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829594
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: OHB-9SE-A-UNV-L850-CD
Description: 9000 LUMEN OHB SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

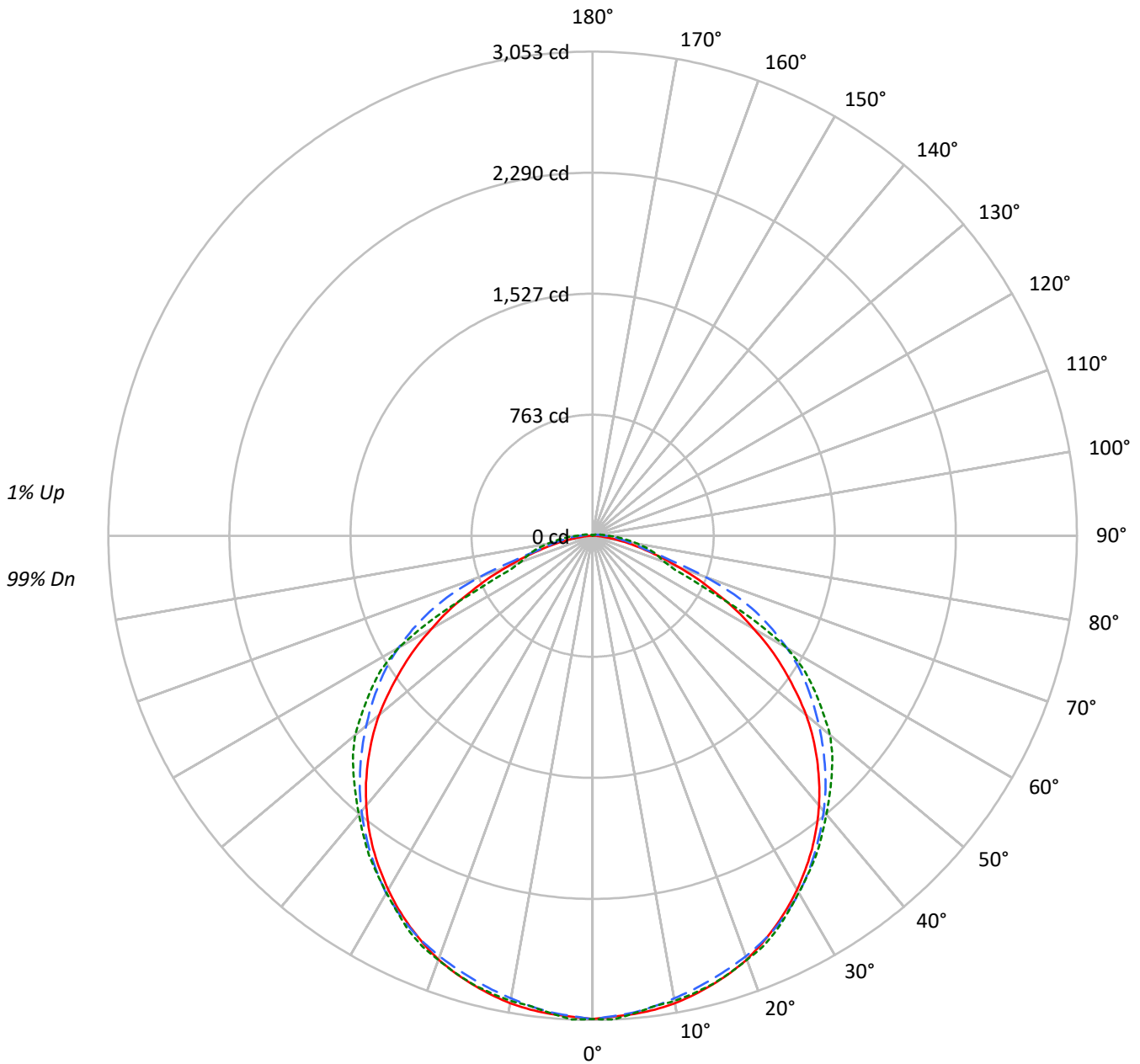
Lumens per Lamp: N/A
Luminaire Lumens: 8611.9 lumens
Efficiency: N/A
Efficacy: 159.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 1.93' x H: 0.17')
CIE Type: Direct

Input Watts (W): 54
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°	19387	19387	19387
5°	19190	18943	18984
10°	19050	18499	18617
15°	18858	18131	18337
20°	18665	17842	18019
25°	18364	17551	17700
30°	18041	17180	17203
35°	17666	16683	16848
40°	17199	16169	16419
45°	16581	15594	16110
50°	15772	14952	15759
55°	14547	14297	14922
60°	12980	13429	13523
65°	10983	12036	8359
70°	8680	9094	5864
75°	6326	5158	5684
80°	4196	4002	5058
85°	2155	3250	4191



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.3	3.3
10°-20°	823.8	9.6
20°-30°	1258.3	14.6
30°-40°	1526.7	17.7
40°-50°	1600.1	18.6
50°-60°	1449.9	16.8
60°-70°	972.1	11.3
70°-80°	436.5	5.1
80°-90°	158.4	1.8
90°-100°	47.7	0.6
100°-110°	22.5	0.3
110°-120°	11.3	0.1
120°-130°	6.2	0.1
130°-140°	4.3	0.0
140°-150°	2.9	0.0
150°-160°	2.1	0.0
160°-170°	1.4	0.0
170°-180°	0.4	0.0
0°-30°	2369.4	27.5
0°-40°	3896.1	45.2
0°-60°	6946.2	80.7
0°-90°	8513.2	98.9
90°-120°	81.4	0.9
90°-150°	94.8	1.1
90°-180°	99.0	1.1
0°-180°	8611.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3047	3047	3047	3047	3047	
5°	3027	3038	3016	3026	3022	288
15°	2929	2917	2897	2922	2926	827
25°	2721	2709	2728	2753	2745	1254
35°	2412	2417	2442	2468	2458	1507
45°	2002	2034	2072	2125	2131	1542
55°	1473	1544	1649	1715	1711	1315
65°	864	1000	1135	958	782	861
75°	340	493	363	371	396	372
85°	59	112	144	174	182	72
90°	0	37	74	93	98	3
95°	0	23	51	62	64	1
105°	2	10	25	30	32	2
115°	4	5	13	16	17	3
125°	3	4	8	9	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°	3046.9	3046.9	3046.9	3046.9	<i>3046.9</i>
2.5°	<i>3034.6</i>	<i>3047.4</i>	<i>3031.5</i>	<i>3048.7</i>	<i>3053.1</i>
5°	3027.1	3037.7	3016.5	3025.8	<i>3021.8</i>
7.5°	3013.5	3017.0	2991.9	2999.4	<i>2991.4</i>
10°	2993.2	2991.4	2961.9	2976.4	<i>2978.2</i>
12.5°	2963.2	2957.9	2931.5	2953.5	<i>2954.0</i>
15°	2928.9	2917.4	2896.7	2922.3	<i>2925.8</i>
17.5°	2889.2	2874.2	2860.6	2893.6	<i>2888.3</i>
20°	2843.0	2825.3	2822.7	2858.8	<i>2845.6</i>
22.5°	2785.7	2772.0	2778.2	2812.6	<i>2804.2</i>
25°	2720.9	2709.0	2728.0	2753.1	<i>2745.1</i>
27.5°	2652.6	2645.6	2667.2	2686.6	<i>2671.1</i>
30°	2577.7	2573.8	2602.4	2618.3	<i>2598.9</i>
32.5°	2496.2	2497.6	2524.9	2546.5	<i>2528.4</i>
35°	2411.6	2417.4	2442.0	2468.0	<i>2458.3</i>
37.5°	2318.7	2331.5	2356.1	2385.6	<i>2375.5</i>
40°	2220.4	2238.9	2266.3	2301.9	<i>2292.7</i>
42.5°	2114.3	2137.6	2172.9	2212.5	<i>2211.6</i>
45°	2001.5	2034.1	2072.0	2124.8	<i>2131.4</i>
47.5°	1884.3	1920.9	1968.9	2039.4	<i>2049.5</i>
50°	1757.0	1802.8	1862.7	1947.3	<i>1953.5</i>
52.5°	1615.1	1677.7	1757.0	1838.0	<i>1830.5</i>
55°	1472.8	1543.7	1649.0	1715.1	<i>1711.1</i>
57.5°	1330.9	1410.7	1538.4	1585.6	<i>1585.1</i>
60°	1172.3	1273.2	1412.9	1448.6	<i>1413.3</i>
62.5°	1025.6	1134.0	1279.0	1253.0	<i>1132.2</i>
65°	864.4	999.6	1134.9	957.8	<i>782.0</i>
67.5°	721.2	862.2	964.0	656.0	<i>561.7</i>
70°	577.1	732.7	751.6	486.8	<i>480.2</i>
72.5°	449.4	615.0	518.5	416.8	<i>437.9</i>
75°	340.1	493.4	363.0	371.4	<i>395.6</i>
77.5°	248.0	378.9	282.4	325.6	<i>345.4</i>
80°	170.5	268.3	230.4	273.6	<i>287.2</i>
82.5°	107.1	177.1	184.6	220.3	<i>234.4</i>
85°	58.6	112.3	144.1	174.0	<i>182.4</i>
87.5°	24.2	67.8	110.1	134.4	<i>141.4</i>
90°	0.4	37.4	74.5	93.4	<i>97.8</i>
92.5°	0.4	28.6	60.8	75.3	<i>78.4</i>
95°	0.4	23.3	51.1	62.1	<i>63.9</i>
97.5°	0.9	18.5	42.7	51.5	<i>53.3</i>
100°	1.3	15.4	35.7	43.2	<i>44.5</i>
102.5°	1.8	12.3	30.0	36.1	<i>37.4</i>
105°	1.8	10.1	25.1	30.4	<i>31.7</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.1	6.2	15.0	18.9	19.8
115°	3.5	5.3	12.8	16.3	17.2
117.5°	3.5	4.4	11.0	13.7	14.5
120°	3.5	4.0	9.7	11.9	12.3
122.5°	3.5	3.5	8.4	10.6	11.0
125°	3.1	3.5	7.9	9.3	9.7
127.5°	3.5	3.5	7.0	8.4	8.8
130°	3.5	4.0	6.2	7.9	7.9
132.5°	4.0	4.4	5.7	7.5	7.5
135°	4.0	4.4	4.8	7.0	7.5
137.5°	4.4	4.4	4.4	6.6	7.0
140°	4.4	4.4	4.0	5.7	6.2
142.5°	4.0	4.4	4.0	5.3	5.7
145°	4.0	4.4	4.4	4.8	5.3
147.5°	4.4	4.4	4.4	4.4	4.8
150°	4.4	4.4	4.4	4.4	4.4
152.5°	4.4	4.4	4.4	4.4	4.4
155°	4.4	4.8	4.8	4.8	4.4
157.5°	4.4	4.8	4.8	4.8	4.8
160°	4.4	4.8	4.8	4.8	4.8
162.5°	4.8	4.8	4.8	4.8	4.8
165°	4.8	4.8	4.8	4.8	4.8
167.5°	4.8	5.3	4.8	4.8	4.8
170°	4.8	4.8	4.8	4.4	4.4
172.5°	4.8	4.8	4.8	4.4	4.4
175°	4.8	4.8	4.4	4.0	4.0
177.5°	5.3	4.8	4.4	4.0	3.5
180°	4.4	4.4	4.4	4.4	4.4



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	2.2	8.4	21.6	26.0	26.9
110°	2.6	7.0	18.1	22.0	22.9



(END OF REPORT)