

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: P830950

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-9HE-W-UNV-L850-CD
Description: 9000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

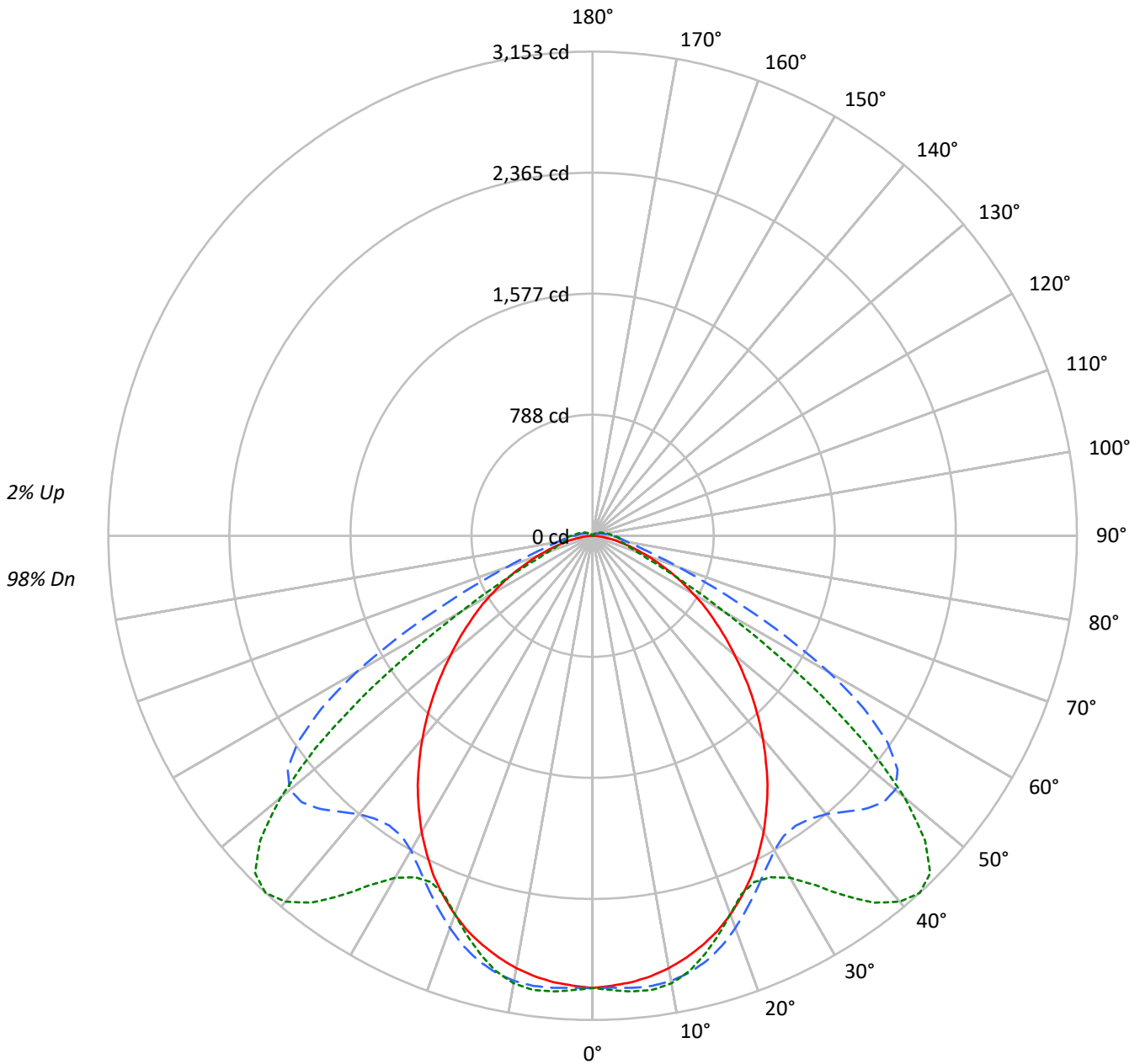
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8818.0 lumens
Efficiency: N/A
Efficacy: 169.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
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				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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	100	100	100	98
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	85	85	85	83
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	72	72	72	70
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	61	61	61	59
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	52	52	52	50
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	45	45	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	40	40	40	38
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	35	35	35	33
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	28	28	28	26
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	25	25	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5030	5030	5030
5°	4983	5023	5063
10°	4921	5015	5044
15°	4825	4932	4858
20°	4693	4763	4597
25°	4517	4558	4480
30°	4283	4405	4793
35°	4016	4486	5574
40°	3706	4859	6399
45°	3382	5512	6824
50°	3045	6094	6292
55°	2727	6086	4755
60°	2404	5149	2868
65°	2062	3555	1706
70°	1676	2298	1202
75°	1274	1647	1075
80°	915	1446	1140
85°	622	1588	1586



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.4	3.2
10°-20°	796.9	9.0
20°-30°	1166.2	13.2
30°-40°	1514.5	17.2
40°-50°	1849.4	21.0
50°-60°	1628.7	18.5
60°-70°	848.7	9.6
70°-80°	364.0	4.1
80°-90°	174.8	2.0
90°-100°	82.1	0.9
100°-110°	51.0	0.6
110°-120°	30.2	0.3
120°-130°	16.4	0.2
130°-140°	8.2	0.1
140°-150°	4.0	0.0
150°-160°	1.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2244.5	25.5
0°-40°	3759.1	42.6
0°-60°	7237.2	82.1
0°-90°	8624.7	97.8
90°-120°	163.3	1.9
90°-150°	191.9	2.2
90°-180°	193.0	2.2
0°-180°	8818.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2945	2945	2945	2945	2945	
5°	2918	2940	2956	2982	2979	277
15°	2761	2838	2866	2844	2821	777
25°	2446	2577	2533	2486	2488	1123
35°	1986	2195	2305	2688	2860	1238
45°	1462	1840	2514	3044	3108	1127
55°	973	1611	2341	2053	1825	874
65°	558	1116	1072	596	513	553
75°	225	522	344	236	224	245
85°	48	186	175	172	174	53
90°	1	67	116	132	135	3
95°	1	39	92	108	111	1
105°	2	22	60	72	73	3
115°	4	13	37	45	46	4
125°	4	6	22	28	29	4
135°	4	4	10	17	18	3
145°	5	4	4	8	10	3
155°	5	5	4	4	4	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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CATALOG NUMBER: OHBL-9HE-W-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2945.1	2945.1	2945.1	2945.1	2945.1
2.5°	2932.3	2945.1	2945.7	2963.5	2961.6
5°	2917.7	2940.0	2955.9	2981.9	2978.7
7.5°	2893.6	2928.5	2956.5	2985.1	2982.5
10°	2859.3	2906.9	2943.8	2967.3	2959.7
12.5°	2814.8	2877.7	2913.9	2919.0	2904.4
15°	2760.8	2838.3	2865.6	2844.0	2821.1
17.5°	2699.8	2790.7	2800.2	2753.2	2724.6
20°	2623.5	2727.1	2717.6	2652.8	2621.0
22.5°	2539.0	2657.2	2626.7	2558.7	2528.2
25°	2446.3	2577.2	2533.3	2485.7	2488.2
27.5°	2337.6	2486.3	2443.7	2465.3	2506.0
30°	2227.1	2391.0	2364.9	2490.7	2570.8
32.5°	2105.7	2293.1	2316.6	2565.1	2696.0
35°	1985.6	2195.3	2305.2	2688.4	2860.5
37.5°	1852.8	2096.2	2323.6	2830.7	3011.1
40°	1723.8	1999.6	2365.6	2958.4	3110.9
42.5°	1592.3	1913.2	2436.1	3034.0	3152.8
45°	1462.0	1839.5	2514.3	3044.2	3107.7
47.5°	1331.8	1777.2	2568.3	2963.5	2934.2
50°	1206.0	1721.9	2572.1	2769.7	2650.2
52.5°	1088.4	1671.1	2502.2	2460.9	2275.3
55°	973.4	1611.4	2341.4	2053.0	1824.9
57.5°	868.6	1528.8	2093.6	1614.5	1365.5
60°	757.4	1416.9	1773.4	1181.2	984.9
62.5°	655.1	1277.8	1414.4	822.2	707.8
65°	558.5	1116.4	1071.9	596.0	512.8
67.5°	456.2	949.3	791.1	434.6	381.2
70°	376.2	794.2	589.0	338.0	306.9
72.5°	294.2	646.8	440.3	274.5	257.3
75°	224.9	522.3	344.4	235.7	223.7
77.5°	165.8	413.0	277.0	208.4	197.0
80°	116.3	325.3	231.9	186.2	181.7
82.5°	78.2	251.6	197.6	177.3	177.9
85°	47.7	186.2	175.4	171.6	173.5
87.5°	22.9	132.2	150.6	156.3	158.2
90°	0.6	67.4	115.6	132.2	135.3
92.5°	0.0	51.5	101.7	118.2	121.4
95°	1.3	39.4	92.1	108.0	111.2
97.5°	1.3	32.4	82.6	99.1	101.0
100°	1.9	28.0	73.7	89.6	91.5
102.5°	1.9	24.8	66.1	80.1	81.3
105°	2.5	22.2	59.7	71.8	73.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.8	15.2	41.9	50.8	52.1
115°	3.8	12.7	36.9	45.1	46.4
117.5°	4.4	11.4	32.4	40.0	40.7
120°	4.4	9.5	28.0	35.6	36.2
122.5°	4.4	7.6	24.8	31.8	32.4
125°	4.4	6.4	21.6	28.0	28.6
127.5°	3.8	4.4	18.4	24.8	25.4
130°	3.8	3.8	15.2	21.6	22.9
132.5°	3.8	3.8	12.7	19.1	20.3
135°	3.8	3.8	10.2	17.2	17.8
137.5°	3.8	3.8	8.3	14.6	15.9
140°	3.8	3.8	6.4	12.7	13.3
142.5°	4.4	3.8	5.7	10.8	11.4
145°	5.1	3.8	4.4	8.3	9.5
147.5°	5.1	4.4	4.4	7.0	7.6
150°	5.1	5.1	3.8	5.1	6.4
152.5°	5.1	5.1	3.8	3.8	5.1
155°	5.1	5.1	3.8	3.8	3.8
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°	3.2	19.7	53.4	64.2	65.4
110°	3.2	17.2	47.0	57.2	58.5



(END OF REPORT)