

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: P830941

Luminaire Tested: **OHBL-9HE-NL-UNV-L940-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830941
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-9HE-NL-UNV-L940-CD
Description: 9000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

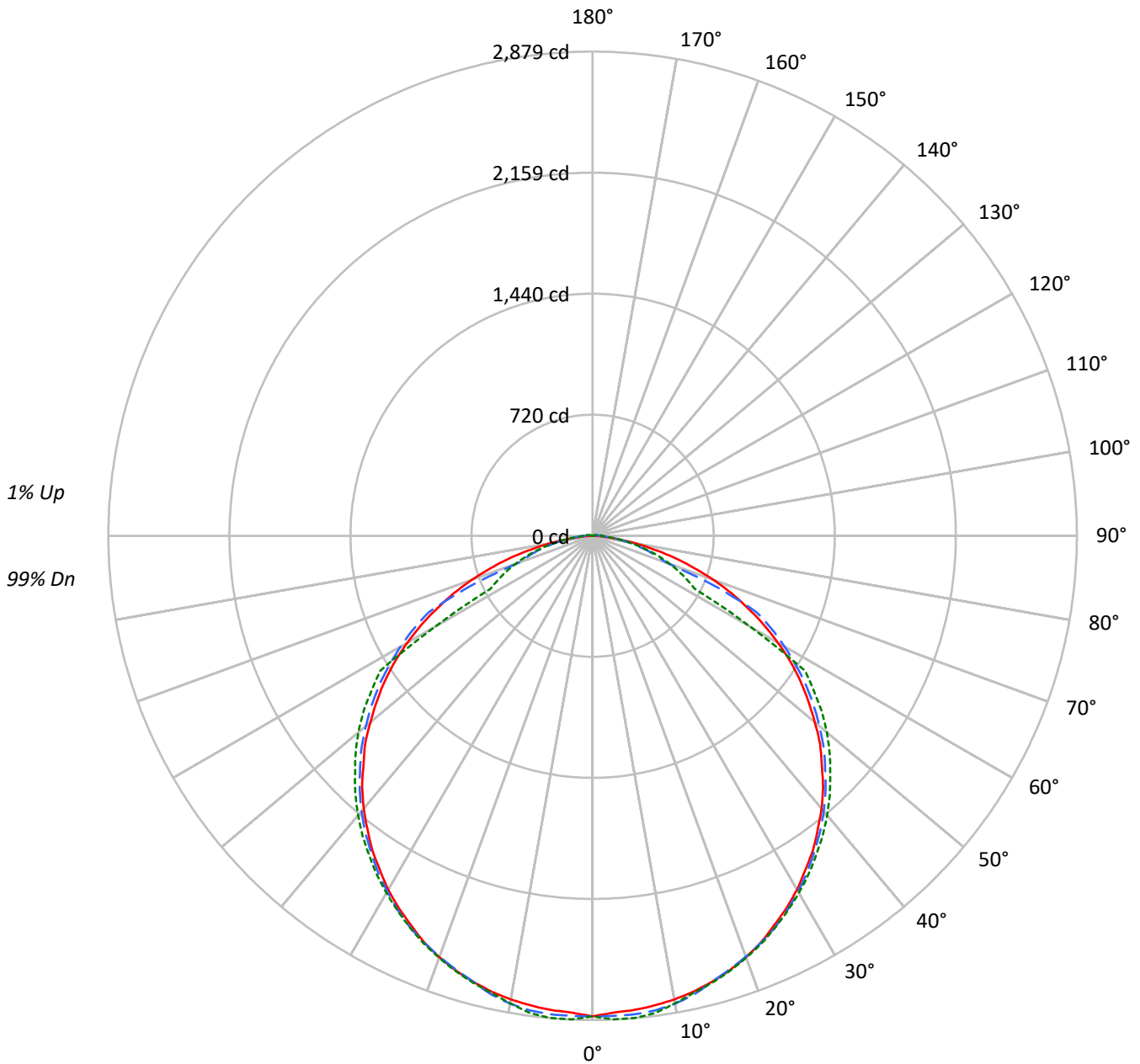
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8023.0 lumens
Efficiency: N/A
Efficacy: 154.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): 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	111	111	111	106	106	106	102	102	102					99															
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86					84															
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73					71															
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62					60															
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53					51															
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46					44															
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32					30															
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4881	4881	4881
5°	4854	4898	4935
10°	4855	4901	4895
15°	4854	4853	4864
20°	4848	4840	4852
25°	4814	4839	4843
30°	4792	4817	4836
35°	4761	4787	4832
40°	4720	4765	4835
45°	4652	4722	4825
50°	4582	4675	4830
55°	4494	4611	4777
60°	4344	4498	3719
65°	4110	4349	2503
70°	3801	2309	2429
75°	3315	2194	2320
80°	2549	2012	2126
85°	1288	2034	2083



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.5	3.4
10°-20°	777.3	9.7
20°-30°	1182.8	14.7
30°-40°	1438.1	17.9
40°-50°	1512.1	18.8
50°-60°	1380.7	17.2
60°-70°	885.1	11.0
70°-80°	418.1	5.2
80°-90°	115.9	1.4
90°-100°	30.7	0.4
100°-110°	8.4	0.1
110°-120°	2.3	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2231.6	27.8
0°-40°	3669.7	45.7
0°-60°	6562.4	81.8
0°-90°	7981.6	99.5
90°-120°	41.4	0.5
90°-150°	41.4	0.5
90°-180°	41.0	0.5
0°-180°	8023.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2858	2858	2858	2858	2858	
5°	2831	2842	2857	2872	2878	269
15°	2745	2766	2745	2749	2751	775
25°	2555	2559	2568	2572	2570	1179
35°	2284	2270	2296	2324	2318	1427
45°	1926	1922	1955	2001	1998	1489
55°	1509	1498	1548	1600	1604	1346
65°	1017	1017	1076	617	619	1008
75°	502	512	332	350	352	530
85°	66	83	104	112	106	97
90°	0	28	46	55	54	3
95°	2	14	33	45	45	1
105°	2	6	8	8	8	3
115°	2	4	5	4	0	2
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
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°	2857.6	2857.6	2857.6	2857.6	2857.6
2.5°	2837.5	2847.1	2857.6	2871.1	2878.6
5°	2831.0	2842.0	2856.6	2872.1	2878.1
7.5°	2817.0	2832.5	2846.5	2857.6	2861.1
10°	2799.4	2818.0	2826.0	2825.0	2822.5
12.5°	2775.8	2795.4	2792.9	2781.4	2783.4
15°	2745.3	2765.8	2744.8	2748.8	2750.8
17.5°	2709.2	2729.2	2704.6	2712.7	2713.2
20°	2667.1	2682.1	2663.0	2669.6	2669.6
22.5°	2616.4	2626.9	2618.9	2623.4	2624.4
25°	2554.7	2558.7	2567.7	2571.8	2569.8
27.5°	2495.6	2490.5	2508.1	2517.6	2512.6
30°	2429.9	2421.9	2442.4	2458.0	2452.0
32.5°	2354.6	2349.7	2373.2	2391.8	2388.2
35°	2283.5	2269.9	2296.0	2324.1	2317.5
37.5°	2199.2	2191.2	2220.8	2250.4	2246.9
40°	2117.0	2103.4	2137.0	2172.1	2168.6
42.5°	2028.7	2012.7	2049.3	2091.4	2087.4
45°	1925.9	1922.4	1955.0	2001.1	1997.6
47.5°	1834.7	1817.1	1862.7	1907.4	1911.4
50°	1724.4	1717.9	1759.5	1813.6	1817.6
52.5°	1616.6	1612.1	1655.7	1710.3	1717.3
55°	1509.2	1497.7	1548.4	1600.0	1604.1
57.5°	1394.5	1382.4	1434.1	1490.2	1498.7
60°	1271.6	1260.1	1316.7	1368.9	1088.6
62.5°	1148.7	1140.7	1199.9	849.9	685.0
65°	1016.9	1016.9	1076.0	617.2	619.3
67.5°	893.5	885.5	802.3	554.5	554.5
70°	761.2	764.2	462.3	485.9	486.4
72.5°	628.3	639.3	399.2	418.2	419.2
75°	502.4	512.0	332.4	350.0	351.5
77.5°	369.1	283.8	267.2	280.8	281.3
80°	259.2	179.0	204.6	217.6	216.1
82.5°	151.4	125.3	149.9	159.5	158.9
85°	65.7	83.2	103.8	112.3	106.3
87.5°	21.0	51.7	64.7	69.7	69.2
90°	0.0	28.1	46.1	54.6	53.7
92.5°	0.0	22.0	40.1	50.2	50.6
95°	1.5	14.5	33.1	44.6	44.6
97.5°	1.0	10.5	23.6	35.1	36.1
100°	1.0	8.5	15.6	25.1	25.6
102.5°	2.5	7.0	9.5	16.0	16.6
105°	2.5	5.5	8.0	8.0	7.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.0	4.0	5.5	4.0	0.5
115°	2.5	3.5	5.0	3.5	0.5
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	2.5	5.0	7.0	4.5	1.5
110°	3.0	4.5	6.0	4.0	0.5



(END OF REPORT)