

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: P830937

Luminaire Tested: **OHBL-9HE-NL-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830937
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-L840-CD
Description: 9000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

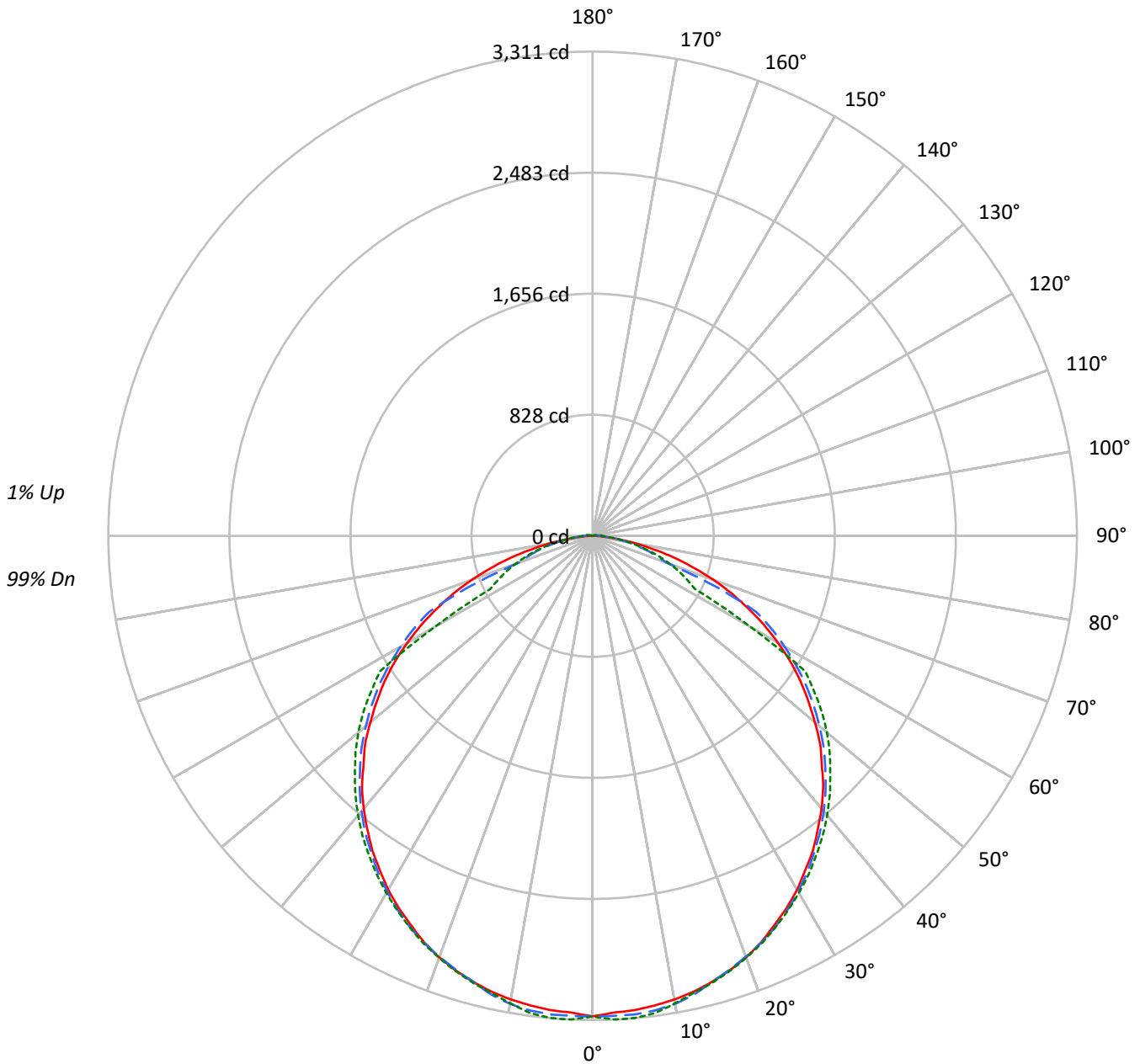
Lumens per Lamp: N/A
Luminaire Lumens: 9228.0 lumens
Efficiency: N/A
Efficacy: 177.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')
CIE Type: Direct

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°	5614	5614	5614
5°	5583	5633	5676
10°	5584	5637	5630
15°	5583	5582	5595
20°	5576	5567	5581
25°	5538	5566	5570
30°	5512	5540	5562
35°	5476	5506	5558
40°	5429	5480	5561
45°	5351	5431	5550
50°	5270	5378	5555
55°	5169	5303	5494
60°	4996	5174	4277
65°	4727	5002	2879
70°	4372	2655	2794
75°	3814	2524	2668
80°	2933	2314	2445
85°	1480	2340	2395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.3	3.4
10°-20°	894.1	9.7
20°-30°	1360.4	14.7
30°-40°	1654.1	17.9
40°-50°	1739.2	18.8
50°-60°	1588.1	17.2
60°-70°	1018.0	11.0
70°-80°	480.9	5.2
80°-90°	133.4	1.4
90°-100°	35.3	0.4
100°-110°	9.7	0.1
110°-120°	2.7	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°	2566.7	27.8
0°-40°	4220.8	45.7
0°-60°	7548.1	81.8
0°-90°	9180.4	99.5
90°-120°	47.7	0.5
90°-150°	47.7	0.5
90°-180°	48.0	0.5
0°-180°	9228.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3287	3287	3287	3287	3287	
5°	3256	3269	3286	3304	3310	310
15°	3158	3181	3157	3162	3164	891
25°	2938	2943	2953	2958	2956	1356
35°	2626	2611	2641	2673	2666	1641
45°	2215	2211	2249	2302	2298	1712
55°	1736	1723	1781	1840	1845	1548
65°	1170	1170	1238	710	712	1160
75°	578	589	382	403	404	609
85°	76	96	119	129	122	112
90°	0	32	53	63	62	3
95°	2	17	38	51	51	1
105°	3	6	9	9	9	3
115°	3	4	6	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3286.8	3286.8	3286.8	3286.8	3286.8
2.5°	3263.7	3274.7	3286.8	3302.3	3311.0
5°	3256.2	3268.9	3285.6	3303.5	3310.4
7.5°	3240.1	3257.9	3274.1	3286.8	3290.8
10°	3219.9	3241.2	3250.4	3249.3	3246.4
12.5°	3192.7	3215.3	3212.4	3199.1	3201.4
15°	3157.6	3181.2	3157.0	3161.6	3163.9
17.5°	3116.1	3139.1	3110.9	3120.1	3120.7
20°	3067.6	3084.9	3063.0	3070.5	3070.5
22.5°	3009.4	3021.5	3012.3	3017.4	3018.6
25°	2938.4	2943.0	2953.4	2958.0	2955.7
27.5°	2870.4	2864.6	2884.8	2895.8	2889.9
30°	2794.8	2785.6	2809.2	2827.1	2820.2
32.5°	2708.3	2702.6	2729.7	2751.0	2746.9
35°	2626.4	2610.8	2640.8	2673.1	2665.6
37.5°	2529.5	2520.3	2554.3	2588.4	2584.3
40°	2434.9	2419.4	2458.0	2498.4	2494.3
42.5°	2333.5	2315.0	2357.1	2405.6	2400.9
45°	2215.2	2211.2	2248.6	2301.7	2297.7
47.5°	2110.3	2090.1	2142.5	2193.9	2198.5
50°	1983.3	1975.9	2023.8	2086.0	2090.6
52.5°	1859.4	1854.2	1904.3	1967.2	1975.3
55°	1735.9	1722.7	1780.9	1840.3	1845.0
57.5°	1603.9	1590.1	1649.5	1714.1	1723.8
60°	1462.6	1449.3	1514.5	1574.5	1252.1
62.5°	1321.3	1312.0	1380.1	977.6	787.9
65°	1169.6	1169.6	1237.6	709.9	712.3
67.5°	1027.8	1018.5	922.8	637.8	637.8
70°	875.5	879.0	531.7	558.9	559.4
72.5°	722.6	735.3	459.1	481.0	482.1
75°	577.9	588.9	382.4	402.6	404.3
77.5°	424.5	326.4	307.4	323.0	323.6
80°	298.2	205.9	235.3	250.3	248.6
82.5°	174.1	144.2	172.4	183.4	182.8
85°	75.5	95.7	119.4	129.2	122.2
87.5°	24.2	59.4	74.4	80.2	79.6
90°	0.0	32.3	53.1	62.8	61.7
92.5°	0.0	25.3	46.2	57.7	58.3
95°	1.7	16.7	38.1	51.4	51.4
97.5°	1.2	12.1	27.1	40.4	41.5
100°	1.2	9.8	17.9	28.8	29.4
102.5°	2.9	8.1	10.9	18.4	19.1
105°	2.9	6.4	9.2	9.2	8.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.5	4.6	6.4	4.6	0.5
115°	2.9	4.0	5.7	4.0	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°	2.9	5.7	8.1	5.2	1.7
110°	3.5	5.2	6.9	4.6	0.5



(END OF REPORT)