

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: P830938

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830938
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-L850-CD
Description: 9000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

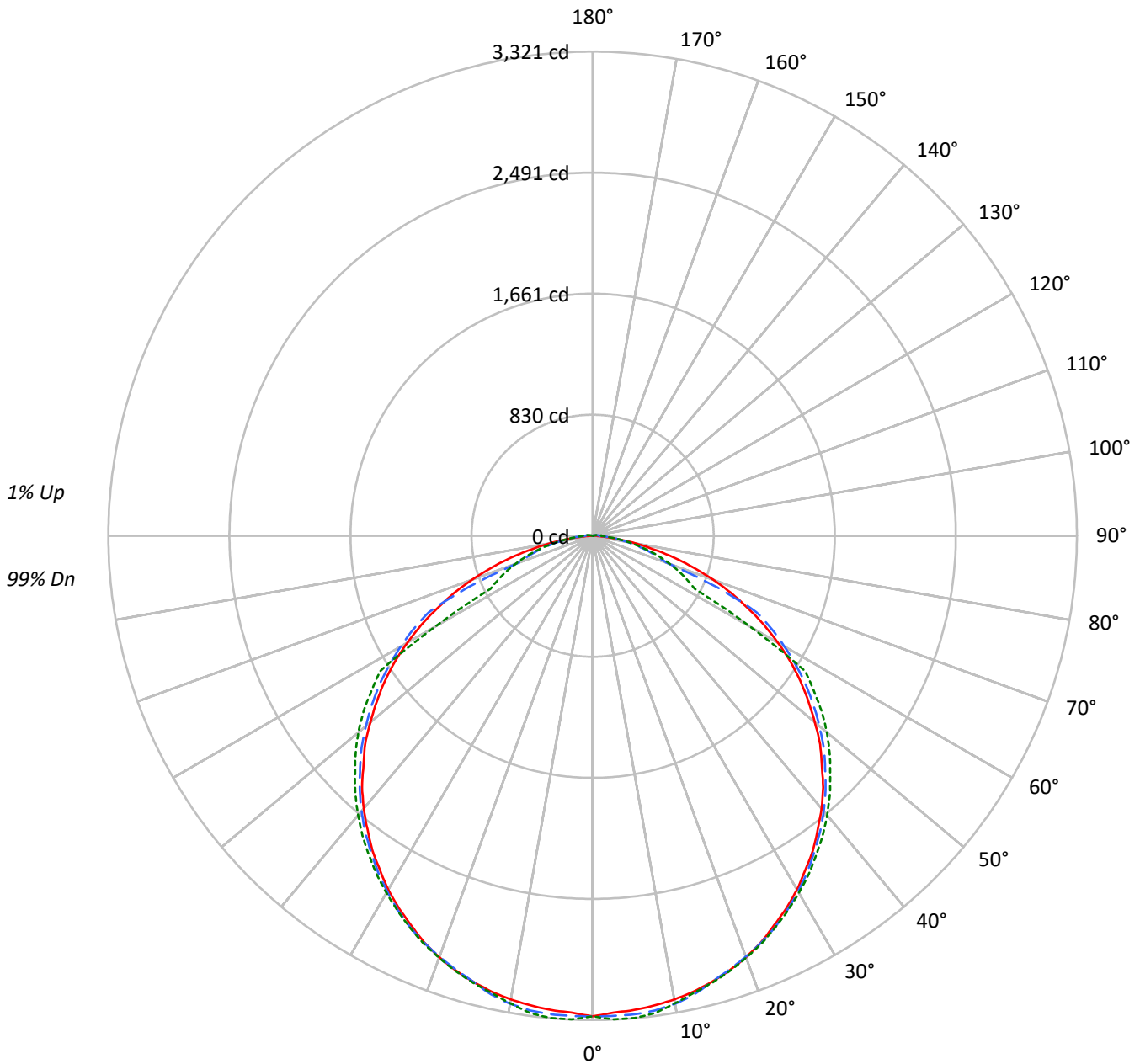
Lumens per Lamp: N/A
Luminaire Lumens: 9255.0 lumens
Efficiency: N/A
Efficacy: 178.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 52
Input Voltage (V): NR
Input Current (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	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°	5630	5630	5630
5°	5599	5650	5692
10°	5601	5654	5647
15°	5600	5599	5611
20°	5592	5584	5597
25°	5554	5582	5587
30°	5528	5557	5578
35°	5492	5523	5574
40°	5445	5496	5578
45°	5366	5447	5566
50°	5285	5393	5571
55°	5184	5319	5510
60°	5011	5189	4290
65°	4741	5016	2887
70°	4385	2663	2802
75°	3825	2531	2676
80°	2941	2321	2452
85°	1485	2346	2403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.2	3.4
10°-20°	896.7	9.7
20°-30°	1364.4	14.7
30°-40°	1658.9	17.9
40°-50°	1744.3	18.8
50°-60°	1592.7	17.2
60°-70°	1021.0	11.0
70°-80°	482.3	5.2
80°-90°	133.7	1.4
90°-100°	35.4	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°	2574.3	27.8
0°-40°	4233.2	45.7
0°-60°	7570.1	81.8
0°-90°	9207.2	99.5
90°-120°	47.8	0.5
90°-150°	47.8	0.5
90°-180°	48.0	0.5
0°-180°	9255.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3296	3296	3296	3296	3296	
5°	3266	3278	3295	3313	3320	311
15°	3167	3190	3166	3171	3173	894
25°	2947	2952	2962	2967	2964	1360
35°	2634	2618	2649	2681	2673	1646
45°	2222	2218	2255	2308	2304	1717
55°	1741	1728	1786	1846	1850	1553
65°	1173	1173	1241	712	714	1163
75°	580	591	384	404	406	611
85°	76	96	120	130	123	112
90°	0	32	53	63	62	3
95°	2	17	38	52	52	1
105°	3	6	9	9	9	3
115°	3	4	6	4	1	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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CATALOG NUMBER: OHBL-9HE-NL-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3296.4	3296.4	3296.4	3296.4	3296.4
2.5°	3273.2	3284.3	3296.4	3312.0	3320.6
5°	3265.7	3278.4	3295.2	3313.2	3320.1
7.5°	3249.5	3267.4	3283.7	3296.4	3300.4
10°	3229.3	3250.7	3260.0	3258.8	3255.9
12.5°	3202.1	3224.7	3221.8	3208.5	3210.8
15°	3166.8	3190.5	3166.3	3170.9	3173.2
17.5°	3125.2	3148.3	3120.0	3129.2	3129.8
20°	3076.6	3093.9	3072.0	3079.5	3079.5
22.5°	3018.2	3030.3	3021.1	3026.3	3027.4
25°	2947.0	2951.6	2962.0	2966.7	2964.4
27.5°	2878.8	2873.0	2893.3	2904.2	2898.4
30°	2803.0	2793.7	2817.4	2835.4	2828.5
32.5°	2716.2	2710.5	2737.7	2759.0	2755.0
35°	2634.1	2618.5	2648.6	2680.9	2673.4
37.5°	2536.9	2527.7	2561.8	2595.9	2591.9
40°	2442.1	2426.4	2465.2	2505.7	2501.6
42.5°	2340.3	2321.7	2364.0	2412.6	2407.9
45°	2221.7	2217.6	2255.2	2308.4	2304.4
47.5°	2116.5	2096.2	2148.8	2200.3	2204.9
50°	1989.1	1981.7	2029.7	2092.1	2096.7
52.5°	1864.8	1859.6	1909.9	1973.0	1981.1
55°	1741.0	1727.7	1786.1	1845.7	1850.4
57.5°	1608.6	1594.7	1654.3	1719.1	1728.9
60°	1466.8	1453.6	1518.9	1579.1	1255.8
62.5°	1325.1	1315.9	1384.2	980.4	790.2
65°	1173.0	1173.0	1241.2	712.0	714.3
67.5°	1030.8	1021.5	925.5	639.7	639.7
70°	878.0	881.5	533.3	560.5	561.1
72.5°	724.8	737.5	460.5	482.4	483.5
75°	579.6	590.6	383.5	403.7	405.5
77.5°	425.7	327.4	308.3	324.0	324.5
80°	299.0	206.5	236.0	251.0	249.3
82.5°	174.7	144.6	172.9	184.0	183.3
85°	75.8	96.0	119.7	129.6	122.6
87.5°	24.3	59.6	74.6	80.4	79.8
90°	0.0	32.4	53.2	63.0	61.9
92.5°	0.0	25.4	46.3	57.9	58.4
95°	1.7	16.8	38.2	51.5	51.5
97.5°	1.2	12.1	27.2	40.5	41.6
100°	1.2	9.8	17.9	28.9	29.5
102.5°	2.9	8.1	11.0	18.5	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	4.7	6.4	4.7	0.6
115°	2.9	4.0	5.8	4.0	0.6
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	5.8	8.1	5.2	1.7
110°	3.5	5.2	6.9	4.7	0.6



(END OF REPORT)