

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: P830890

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830890
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: OHBL-9HE-A-UNV-L850-CD
Description: 9000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

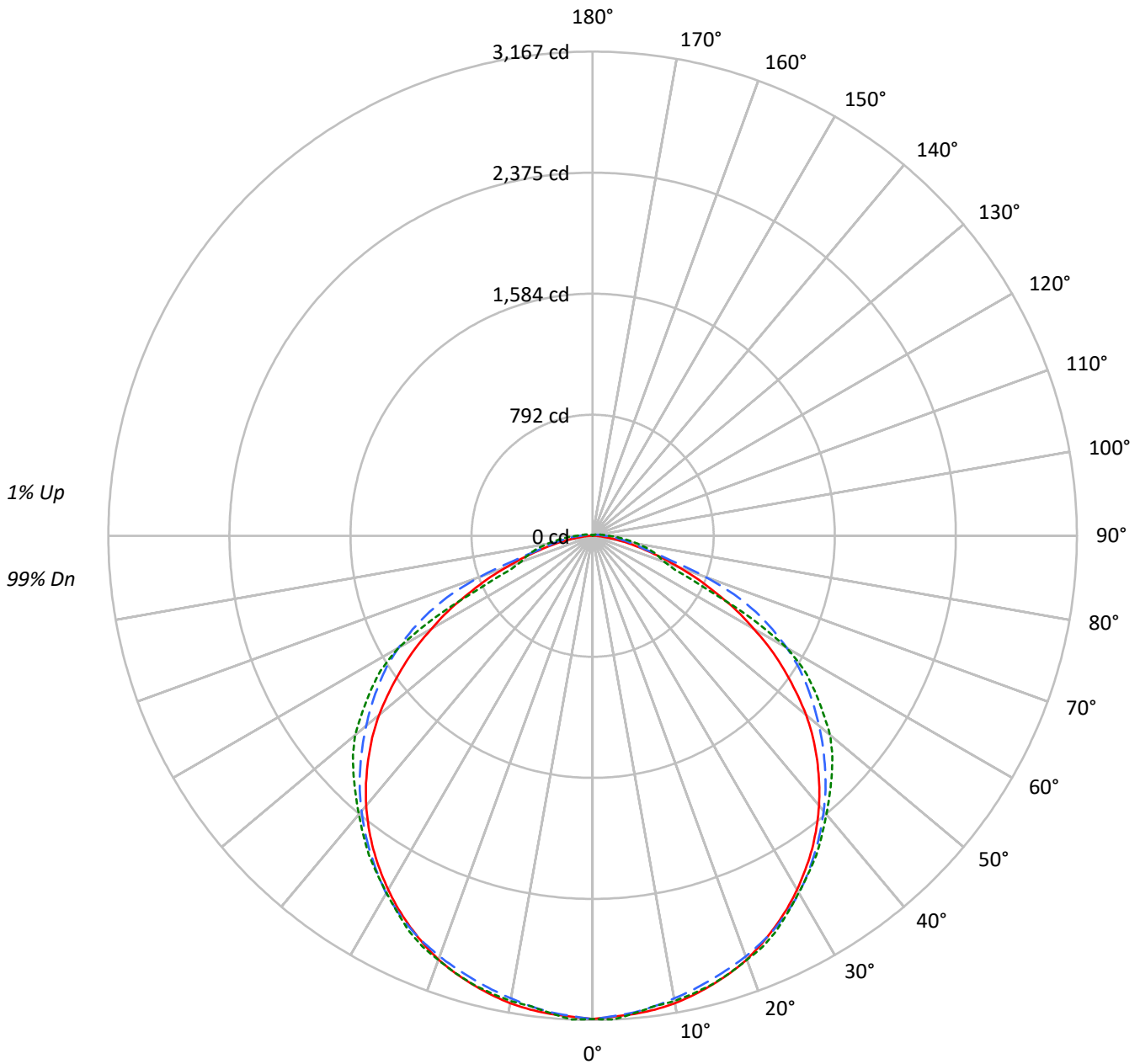
Lumens per Lamp: N/A
Luminaire Lumens: 8934.0 lumens
Efficiency: N/A
Efficacy: 171.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 52
Input Voltage (V): NR
Input Current (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

TEST NUMBER: P830890

CATALOG NUMBER: OHBL-9HE-A-UNV-L850-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830890

CATALOG NUMBER: OHBL-9HE-A-UNV-L850-CD

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°	5399	5399	5399
5°	5363	5318	5328
10°	5344	5235	5266
15°	5310	5172	5227
20°	5276	5132	5177
25°	5212	5091	5128
30°	5143	5029	5027
35°	5060	4930	4970
40°	4953	4829	4892
45°	4803	4712	4855
50°	4601	4578	4811
55°	4280	4447	4625
60°	3860	4256	4269
65°	3311	3905	2699
70°	2667	3042	1952
75°	1999	1801	1972
80°	1392	1490	1870
85°	792	1353	1730



TEST NUMBER: P830890

CATALOG NUMBER: OHBL-9HE-A-UNV-L850-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.0	3.3
10°-20°	854.6	9.6
20°-30°	1305.3	14.6
30°-40°	1583.8	17.7
40°-50°	1659.9	18.6
50°-60°	1504.2	16.8
60°-70°	1008.5	11.3
70°-80°	452.9	5.1
80°-90°	164.3	1.8
90°-100°	49.5	0.6
100°-110°	23.3	0.3
110°-120°	11.7	0.1
120°-130°	6.5	0.1
130°-140°	4.4	0.0
140°-150°	3.0	0.0
150°-160°	2.2	0.0
160°-170°	1.4	0.0
170°-180°	0.5	0.0
0°-30°	2458.0	27.5
0°-40°	4041.8	45.2
0°-60°	7205.9	80.7
0°-90°	8831.5	98.9
90°-120°	84.5	0.9
90°-150°	98.4	1.1
90°-180°	103.0	1.2
0°-180°	8934.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3161	3161	3161	3161	3161	
5°	3140	3151	3129	3139	3135	299
15°	3038	3026	3005	3032	3035	858
25°	2823	2810	2830	2856	2848	1301
35°	2502	2508	2533	2560	2550	1564
45°	2076	2110	2149	2204	2211	1599
55°	1528	1602	1711	1779	1775	1364
65°	897	1037	1177	994	811	893
75°	353	512	377	385	410	386
85°	61	116	150	180	189	74
90°	0	39	77	97	102	4
95°	0	24	53	64	66	1
105°	2	10	26	32	33	2
115°	4	6	13	17	18	3
125°	3	4	8	10	10	3
135°	4	5	5	7	8	3
145°	4	5	5	5	6	3
155°	5	5	5	5	5	2
165°	5	5	5	5	5	1
175°	5	5	5	4	4	0
180°	5	5	5	5	5	



TEST NUMBER: P830890

CATALOG NUMBER: OHBL-9HE-A-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3160.9	3160.9	3160.9	3160.9	3160.9
2.5°	3148.1	3161.3	3144.9	3162.7	3167.3
5°	3140.3	3151.3	3129.3	3138.9	3134.8
7.5°	3126.1	3129.8	3103.7	3111.5	3103.3
10°	3105.1	3103.3	3072.6	3087.7	3089.6
12.5°	3074.0	3068.5	3041.1	3064.0	3064.4
15°	3038.4	3026.5	3005.0	3031.5	3035.2
17.5°	2997.2	2981.7	2967.5	3001.8	2996.3
20°	2949.2	2931.0	2928.2	2965.7	2952.0
22.5°	2889.8	2875.7	2882.1	2917.7	2909.0
25°	2822.7	2810.3	2830.0	2856.0	2847.8
27.5°	2751.8	2744.5	2766.9	2787.0	2771.0
30°	2674.1	2670.0	2699.7	2716.2	2696.1
32.5°	2589.6	2590.9	2619.3	2641.7	2622.9
35°	2501.8	2507.8	2533.3	2560.3	2550.3
37.5°	2405.4	2418.6	2444.2	2474.8	2464.3
40°	2303.5	2322.7	2351.0	2388.0	2378.4
42.5°	2193.3	2217.5	2254.1	2295.2	2294.3
45°	2076.3	2110.1	2149.4	2204.3	2211.1
47.5°	1954.7	1992.7	2042.5	2115.6	2126.1
50°	1822.7	1870.2	1932.3	2020.1	2026.5
52.5°	1675.5	1740.4	1822.7	1906.8	1899.0
55°	1527.9	1601.5	1710.7	1779.2	1775.1
57.5°	1380.7	1463.4	1596.0	1644.9	1644.4
60°	1216.2	1320.8	1465.7	1502.7	1466.2
62.5°	1064.0	1176.4	1326.8	1299.8	1174.6
65°	896.7	1037.0	1177.3	993.6	811.2
67.5°	748.2	894.4	1000.0	680.5	582.7
70°	598.7	760.0	779.7	505.0	498.2
72.5°	466.2	638.0	537.9	432.4	454.3
75°	352.8	511.9	376.6	385.3	410.4
77.5°	257.3	393.1	293.0	337.7	358.3
80°	176.9	278.3	239.0	283.8	298.0
82.5°	111.1	183.7	191.5	228.5	243.1
85°	60.8	116.5	149.5	180.5	189.2
87.5°	25.1	70.4	114.3	139.4	146.7
90°	0.5	38.8	77.2	96.9	101.5
92.5°	0.5	29.7	63.1	78.2	81.4
95°	0.5	24.2	53.0	64.4	66.3
97.5°	0.9	19.2	44.3	53.5	55.3
100°	1.4	16.0	37.0	44.8	46.2
102.5°	1.8	12.8	31.1	37.5	38.8
105°	1.8	10.5	26.1	31.5	32.9



TEST NUMBER: P830890

CATALOG NUMBER: OHBL-9HE-A-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.2	6.4	15.5	19.7	20.6
115°	3.7	5.5	13.3	16.9	17.8
117.5°	3.7	4.6	11.4	14.2	15.1
120°	3.7	4.1	10.1	12.3	12.8
122.5°	3.7	3.7	8.7	11.0	11.4
125°	3.2	3.7	8.2	9.6	10.1
127.5°	3.7	3.7	7.3	8.7	9.1
130°	3.7	4.1	6.4	8.2	8.2
132.5°	4.1	4.6	5.9	7.8	7.8
135°	4.1	4.6	5.0	7.3	7.8
137.5°	4.6	4.6	4.6	6.9	7.3
140°	4.6	4.6	4.1	5.9	6.4
142.5°	4.1	4.6	4.1	5.5	5.9
145°	4.1	4.6	4.6	5.0	5.5
147.5°	4.6	4.6	4.6	4.6	5.0
150°	4.6	4.6	4.6	4.6	4.6
152.5°	4.6	4.6	4.6	4.6	4.6
155°	4.6	5.0	5.0	5.0	4.6
157.5°	4.6	5.0	5.0	5.0	5.0
160°	4.6	5.0	5.0	5.0	5.0
162.5°	5.0	5.0	5.0	5.0	5.0
165°	5.0	5.0	5.0	5.0	5.0
167.5°	5.0	5.5	5.0	5.0	5.0
170°	5.0	5.0	5.0	4.6	4.6
172.5°	5.0	5.0	5.0	4.6	4.6
175°	5.0	5.0	4.6	4.1	4.1
177.5°	5.5	5.0	4.6	4.1	3.7
180°	4.6	4.6	4.6	4.6	4.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	2.3	8.7	22.4	27.0	27.9
110°	2.7	7.3	18.7	22.9	23.8



(END OF REPORT)