

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: P830362

Luminaire Tested: **OHBL-36HE-NL-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830362
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-36HE-NL-UNV-L850-CD
Description: 36000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

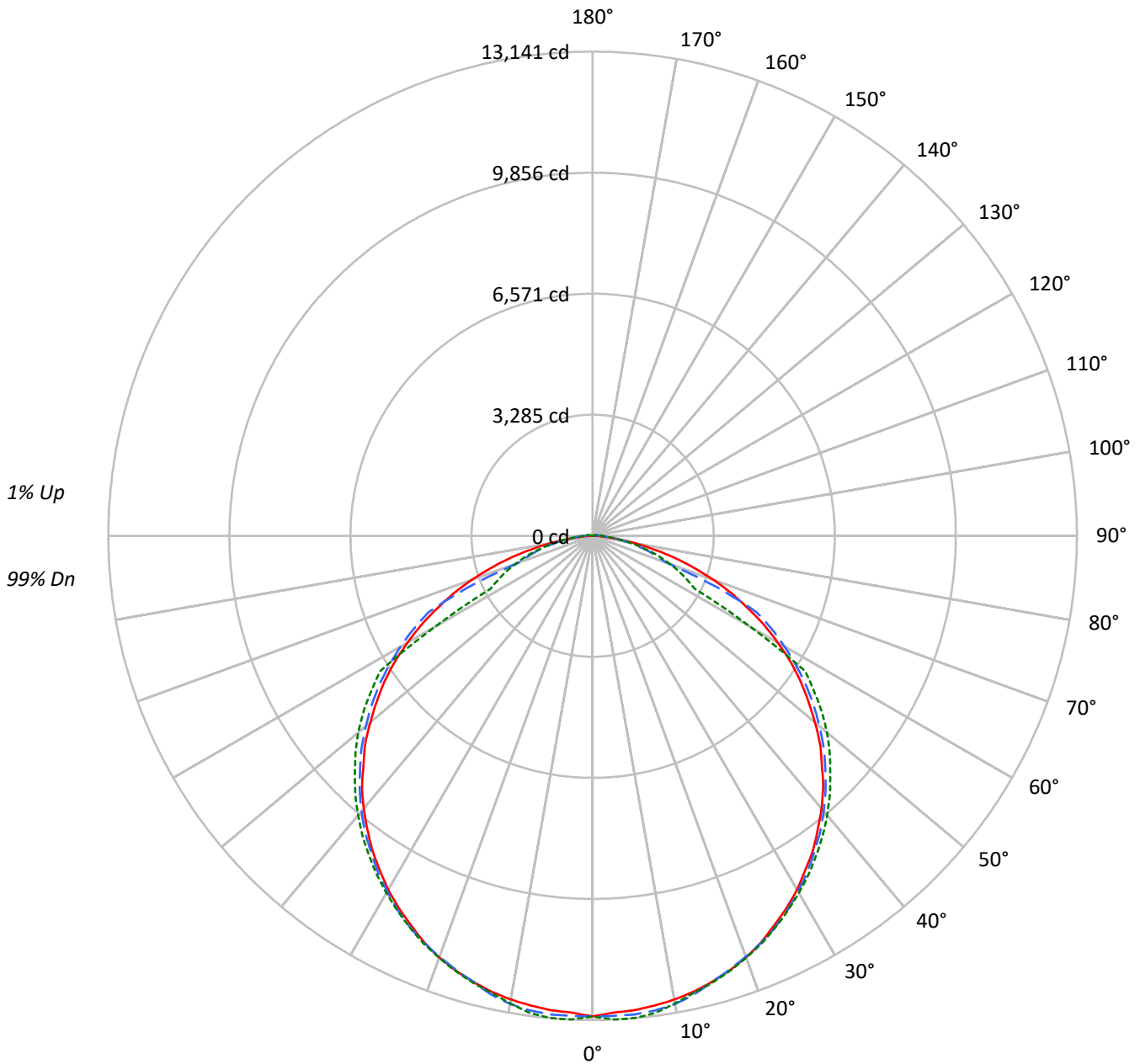
Lumens per Lamp: N/A
Luminaire Lumens: 36626.0 lumens
Efficiency: N/A
Efficacy: 172.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 212
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				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	111	111	111	106	106	106	102	102	102	99				99
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84				84
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73	71				71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60				60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51				51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44				44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39				39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34				34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30				30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27				27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25				25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20631	20631	20631
5°	20517	20702	20858
10°	20522	20717	20692
15°	20519	20515	20560
20°	20491	20460	20510
25°	20351	20454	20471
30°	20257	20361	20441
35°	20125	20236	20426
40°	19952	20141	20438
45°	19664	19961	20396
50°	19368	19762	20415
55°	18997	19489	20190
60°	18361	19012	15718
65°	17371	18382	10579
70°	16067	9758	10267
75°	14015	9273	9805
80°	10778	8506	8985
85°	5440	8597	8804



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1239.3	3.4
10°-20°	3548.6	9.7
20°-30°	5399.5	14.7
30°-40°	6565.0	17.9
40°-50°	6902.8	18.8
50°-60°	6303.1	17.2
60°-70°	4040.6	11.0
70°-80°	1908.7	5.2
80°-90°	529.3	1.4
90°-100°	140.2	0.4
100°-110°	38.4	0.1
110°-120°	10.6	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°	10187.4	27.8
0°-40°	16752.4	45.7
0°-60°	29958.3	81.8
0°-90°	36436.9	99.5
90°-120°	189.2	0.5
90°-150°	189.2	0.5
90°-180°	189.0	0.5
0°-180°	36626.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13045	13045	13045	13045	13045	
5°	12924	12974	13041	13112	13139	###
15°	12532	12626	12530	12548	12558	3538
25°	11663	11681	11722	11740	11731	5382
35°	10424	10362	10482	10610	10580	6515
45°	8792	8776	8925	9136	9120	6796
55°	6890	6837	7068	7304	7323	6145
65°	4642	4642	4912	2818	2827	4602
75°	2294	2337	1518	1598	1605	2418
85°	300	380	474	513	485	443
90°	0	128	211	249	245	13
95°	7	66	151	204	204	4
105°	11	25	37	37	34	11
115°	11	16	23	16	2	8
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°	13045.2	13045.2	13045.2	13045.2	13045.2
2.5°	12953.6	12997.3	13045.2	13107.0	13141.2
5°	12923.8	12974.2	13040.6	13111.6	13139.0
7.5°	12859.8	12930.6	12994.8	13045.2	13061.2
10°	12779.6	12864.4	12901.0	12896.4	12885.0
12.5°	12672.0	12761.5	12750.1	12697.2	12706.4
15°	12532.4	12626.2	12530.3	12548.4	12557.6
17.5°	12367.6	12459.2	12347.0	12383.6	12386.1
20°	12175.5	12244.0	12157.0	12186.8	12186.8
22.5°	11944.3	11992.2	11955.7	11976.3	11980.9
25°	11662.7	11680.8	11722.0	11740.4	11731.2
27.5°	11392.7	11369.7	11449.9	11493.3	11470.2
30°	11092.7	11056.1	11149.9	11220.9	11193.5
32.5°	10749.3	10726.5	10834.1	10918.7	10902.7
35°	10424.3	10362.5	10481.5	10609.7	10579.9
37.5°	10039.7	10003.1	10138.1	10273.3	10257.3
40°	9664.3	9602.5	9755.9	9916.1	9900.1
42.5°	9261.5	9188.1	9355.3	9547.7	9529.3
45°	8792.1	8776.1	8924.9	9135.5	9119.5
47.5°	8375.7	8295.5	8503.7	8707.5	8725.9
50°	7871.9	7842.3	8032.3	8279.5	8297.7
52.5°	7379.9	7359.3	7558.3	7807.9	7839.9
55°	6889.9	6837.3	7068.5	7304.3	7322.7
57.5°	6365.9	6310.9	6546.7	6803.1	6841.9
60°	5804.9	5752.3	6010.9	6249.1	4969.5
62.5°	5244.1	5207.5	5477.7	3880.0	3127.0
65°	4642.1	4642.1	4912.1	2817.8	2827.0
67.5°	4079.2	4042.6	3662.6	2531.5	2531.5
70°	3474.8	3488.6	2110.3	2218.2	2220.4
72.5°	2868.2	2918.6	1822.2	1909.0	1913.6
75°	2293.6	2337.2	1517.6	1597.8	1604.6
77.5°	1684.8	1295.6	1220.0	1282.0	1284.2
80°	1183.4	817.2	934.0	993.4	986.6
82.5°	691.2	572.2	684.4	728.0	725.6
85°	299.8	380.0	473.8	512.8	485.2
87.5°	96.0	235.8	295.2	318.2	315.8
90°	0.0	128.2	210.6	249.4	245.0
92.5°	0.0	100.6	183.2	229.0	231.2
95°	6.8	66.4	151.2	203.8	203.8
97.5°	4.6	48.0	107.6	160.2	164.8
100°	4.6	38.8	71.0	114.4	116.8
102.5°	11.4	32.0	43.4	73.2	75.6
105°	11.4	25.2	36.6	36.6	34.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	13.8	18.4	25.2	18.4	2.2
115°	11.4	16.0	22.8	16.0	2.2
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°	11.4	22.8	32.0	20.6	6.8
110°	13.8	20.6	27.4	18.4	2.2



(END OF REPORT)