

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: P830086

Luminaire Tested: **OHBL-24HE-W-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24HE-W-UNV-L850-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

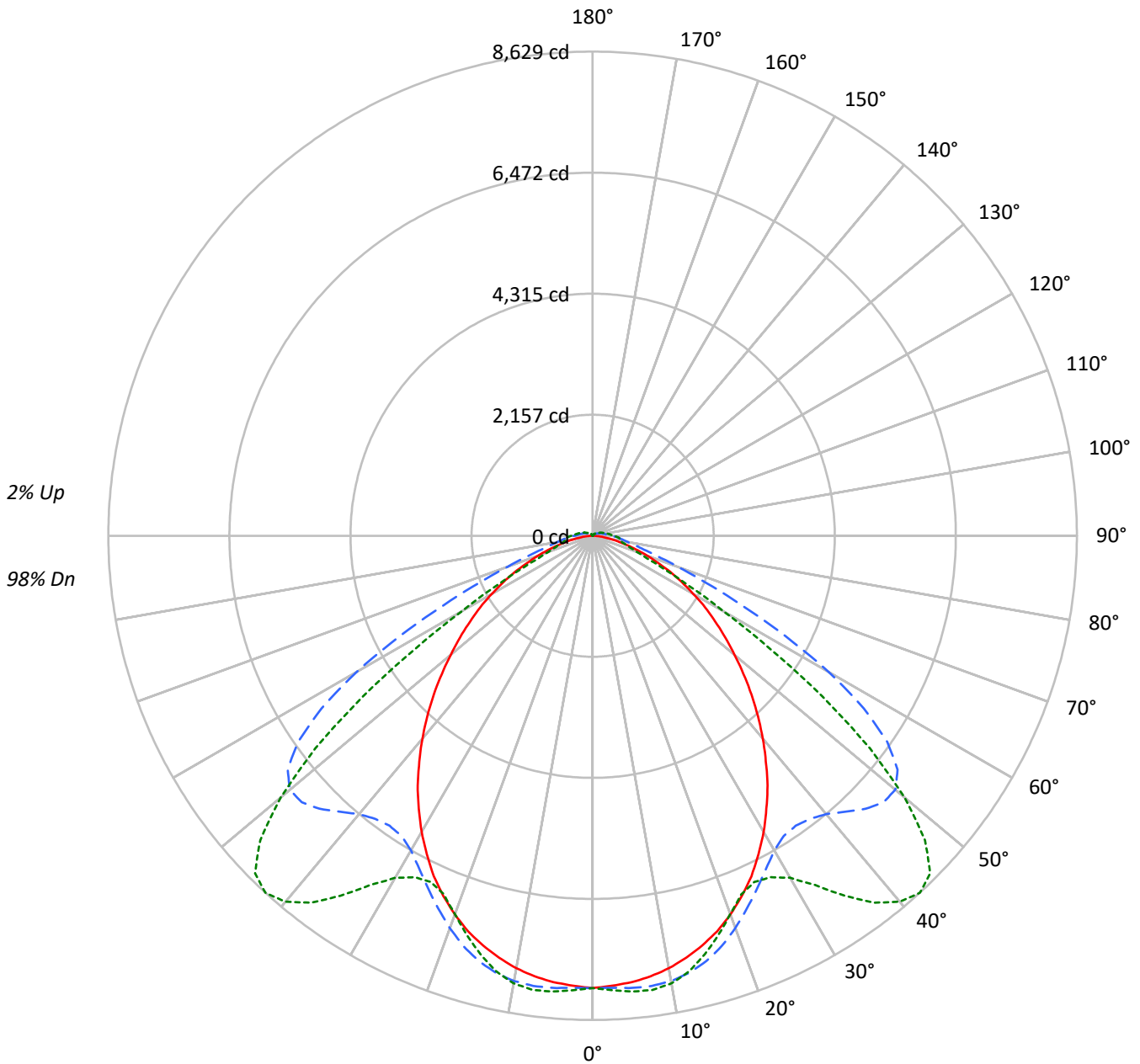
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24135.0 lumens
Efficiency: N/A
Efficacy: 181.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 133
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				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	110	110	110	105	105	105	100	100	100	100	100	100	98
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	85	85	85	83
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	72	72	72	70
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	61	61	61	59
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	52	52	52	50
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	45	45	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	40	40	40	38
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	35	35	35	33
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	28	28	28	26
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	25	25	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12748	12748	12748
5°	12629	12736	12839
10°	12470	12722	12800
15°	12227	12517	12336
20°	11894	12093	11679
25°	11448	11577	11392
30°	10855	11196	12197
35°	10178	11409	14195
40°	9393	12364	16310
45°	8572	14034	17411
50°	7716	15531	16073
55°	6911	15526	12163
60°	6092	13151	7347
65°	5226	9094	4381
70°	4246	5890	3096
75°	3230	4233	2780
80°	2319	3734	2970
85°	1573	4138	4185



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	770.3	3.2
10°-20°	2181.2	9.0
20°-30°	3191.8	13.2
30°-40°	4145.3	17.2
40°-50°	5061.9	21.0
50°-60°	4457.8	18.5
60°-70°	2323.0	9.6
70°-80°	996.2	4.1
80°-90°	478.4	2.0
90°-100°	224.8	0.9
100°-110°	139.7	0.6
110°-120°	82.6	0.3
120°-130°	44.9	0.2
130°-140°	22.5	0.1
140°-150°	10.8	0.0
150°-160°	3.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6143.3	25.5
0°-40°	10288.6	42.6
0°-60°	19808.3	82.1
0°-90°	23605.9	97.8
90°-120°	447.1	1.9
90°-150°	525.3	2.2
90°-180°	529.0	2.2
0°-180°	24135.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8061	8061	8061	8061	8061	
5°	7986	8047	8090	8162	8153	757
15°	7556	7768	7843	7784	7722	2128
25°	6696	7054	6934	6803	6810	3073
35°	5435	6008	6309	7358	7829	3387
45°	4002	5035	6882	8332	8506	3086
55°	2664	4410	6408	5619	4995	2391
65°	1529	3056	2934	1631	1403	1512
75°	616	1430	943	645	612	671
85°	130	510	480	470	475	145
90°	2	184	316	362	370	9
95°	4	108	252	296	304	3
105°	7	61	164	196	200	7
115°	10	35	101	124	127	11
125°	12	17	59	76	78	10
135°	10	10	28	47	49	8
145°	14	10	12	23	26	8
155°	14	14	10	10	10	4
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°	8060.6	8060.6	8060.6	8060.6	8060.6
2.5°	8025.9	8060.6	8062.4	8111.1	8105.9
5°	7985.9	8046.7	8090.2	8161.5	8152.8
7.5°	7919.8	8015.4	8092.0	8170.2	8163.3
10°	7825.9	7956.3	8057.2	8121.5	8100.6
12.5°	7704.1	7876.3	7975.4	7989.3	7949.3
15°	7556.3	7768.5	7843.3	7784.1	7721.5
17.5°	7389.4	7638.1	7664.1	7535.4	7457.2
20°	7180.7	7464.1	7438.1	7260.7	7173.7
22.5°	6949.4	7272.8	7189.4	7003.3	6919.8
25°	6695.5	7053.7	6933.7	6803.3	6810.2
27.5°	6398.1	6805.0	6688.5	6747.6	6858.9
30°	6095.5	6544.2	6472.9	6817.2	7036.3
32.5°	5763.3	6276.4	6340.7	7020.7	7378.9
35°	5434.6	6008.5	6309.4	7358.1	7829.4
37.5°	5071.2	5737.2	6359.8	7747.6	8241.5
40°	4718.1	5472.9	6474.6	8097.2	8514.5
42.5°	4358.1	5236.4	6667.6	8304.1	8629.3
45°	4001.6	5034.6	6881.6	8331.9	8505.9
47.5°	3645.1	4864.2	7029.4	8111.1	8031.1
50°	3300.8	4712.9	7039.8	7580.7	7253.7
52.5°	2979.0	4573.8	6848.5	6735.5	6227.7
55°	2664.3	4410.3	6408.5	5619.0	4994.6
57.5°	2377.3	4184.2	5730.3	4419.0	3737.3
60°	2073.0	3878.2	4853.8	3233.0	2695.6
62.5°	1793.0	3497.3	3871.2	2250.4	1937.3
65°	1528.7	3055.6	2933.8	1631.3	1403.4
67.5°	1248.7	2598.2	2165.2	1189.5	1043.4
70°	1029.5	2173.9	1612.1	925.2	840.0
72.5°	805.2	1770.4	1205.2	751.3	704.3
75°	615.6	1429.5	942.6	645.2	612.2
77.5°	453.9	1130.4	758.2	570.4	539.1
80°	318.3	890.4	634.8	509.6	497.4
82.5°	213.9	688.7	540.9	485.2	486.9
85°	130.4	509.6	480.0	469.6	474.8
87.5°	62.6	361.7	412.2	427.8	433.0
90°	1.7	184.3	316.5	361.7	370.4
92.5°	0.0	140.9	278.3	323.5	332.2
95°	3.5	107.8	252.2	295.6	304.3
97.5°	3.5	88.7	226.1	271.3	276.5
100°	5.2	76.5	201.7	245.2	250.4
102.5°	5.2	67.8	180.9	219.1	222.6
105°	7.0	60.9	163.5	196.5	200.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	10.4	41.7	114.8	139.1	142.6
115°	10.4	34.8	100.9	123.5	127.0
117.5°	12.2	31.3	88.7	109.6	111.3
120°	12.2	26.1	76.5	97.4	99.1
122.5°	12.2	20.9	67.8	87.0	88.7
125°	12.2	17.4	59.1	76.5	78.3
127.5°	10.4	12.2	50.4	67.8	69.6
130°	10.4	10.4	41.7	59.1	62.6
132.5°	10.4	10.4	34.8	52.2	55.7
135°	10.4	10.4	27.8	47.0	48.7
137.5°	10.4	10.4	22.6	40.0	43.5
140°	10.4	10.4	17.4	34.8	36.5
142.5°	12.2	10.4	15.7	29.6	31.3
145°	13.9	10.4	12.2	22.6	26.1
147.5°	13.9	12.2	12.2	19.1	20.9
150°	13.9	13.9	10.4	13.9	17.4
152.5°	13.9	13.9	10.4	10.4	13.9
155°	13.9	13.9	10.4	10.4	10.4
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°	8.7	53.9	146.1	175.6	179.1
110°	8.7	47.0	128.7	156.5	160.0



(END OF REPORT)