

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: P830084

Luminaire Tested: **OHBL-24HE-W-UNV-L835-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830084
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-L835-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

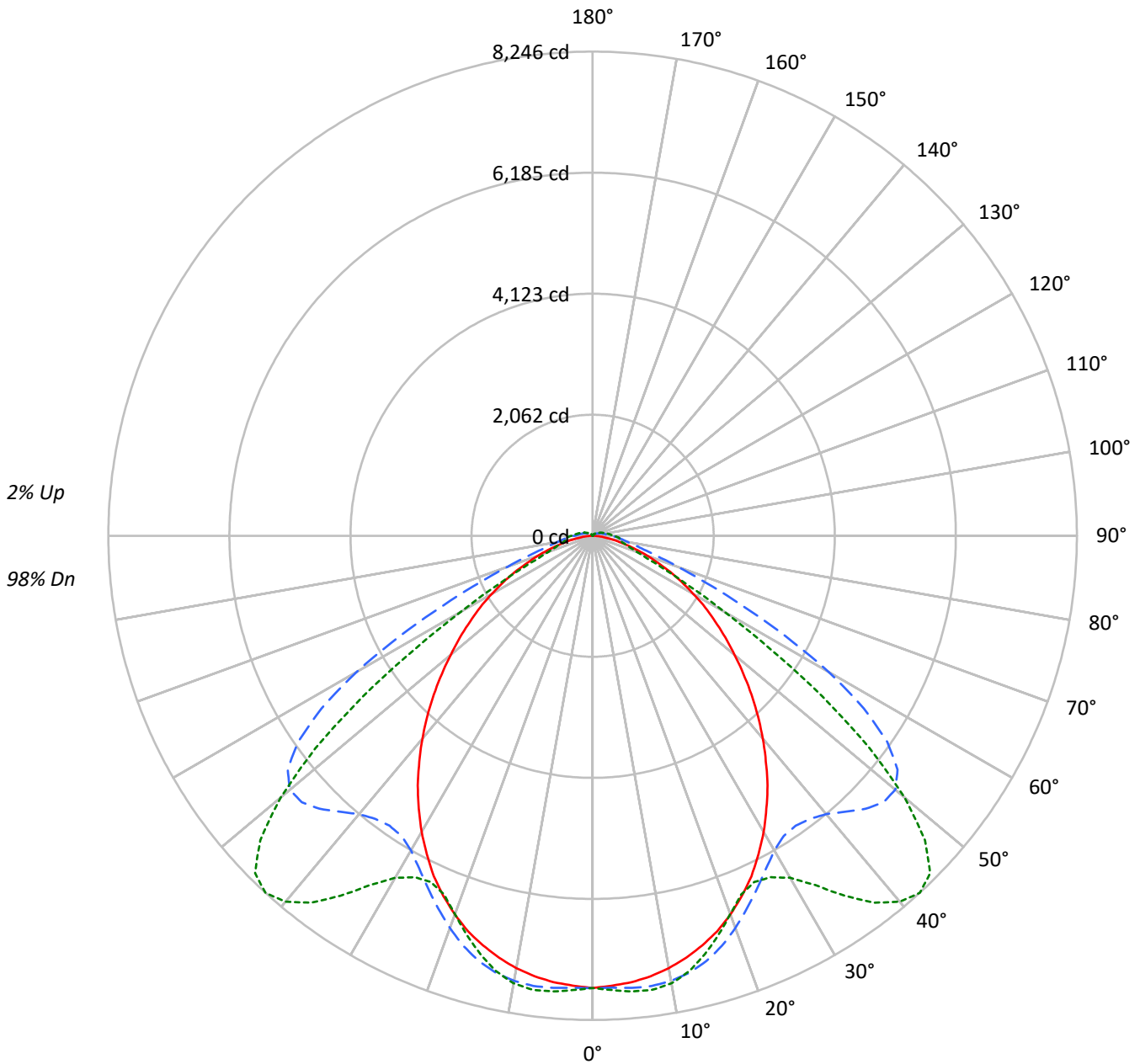
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23062.0 lumens
Efficiency: N/A
Efficacy: 173.4 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°	12181	12181	12181
5°	12067	12169	12268
10°	11916	12156	12231
15°	11684	11961	11788
20°	11365	11555	11160
25°	10939	11063	10885
30°	10372	10698	11655
35°	9726	10902	13564
40°	8975	11814	15585
45°	8191	13410	16637
50°	7373	14841	15358
55°	6604	14836	11622
60°	5821	12566	7021
65°	4994	8689	4187
70°	4058	5628	2958
75°	3087	4045	2656
80°	2216	3568	2838
85°	1503	3954	3999



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	736.0	3.2
10°-20°	2084.2	9.0
20°-30°	3049.9	13.2
30°-40°	3961.0	17.2
40°-50°	4836.9	21.0
50°-60°	4259.6	18.5
60°-70°	2219.7	9.6
70°-80°	951.9	4.1
80°-90°	457.1	2.0
90°-100°	214.8	0.9
100°-110°	133.5	0.6
110°-120°	78.9	0.3
120°-130°	42.9	0.2
130°-140°	21.5	0.1
140°-150°	10.4	0.0
150°-160°	3.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5870.2	25.5
0°-40°	9831.2	42.6
0°-60°	18927.7	82.1
0°-90°	22556.4	97.8
90°-120°	427.2	1.9
90°-150°	502.0	2.2
90°-180°	506.0	2.2
0°-180°	23062.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7702	7702	7702	7702	7702	
5°	7631	7689	7730	7799	7790	724
15°	7220	7423	7495	7438	7378	2033
25°	6398	6740	6626	6501	6508	2936
35°	5193	5741	6029	7031	7481	3237
45°	3824	4811	6576	7962	8128	2948
55°	2546	4214	6124	5369	4773	2285
65°	1461	2920	2803	1559	1341	1445
75°	588	1366	901	616	585	641
85°	125	487	459	449	454	139
90°	2	176	302	346	354	9
95°	3	103	241	282	291	2
105°	7	58	156	188	191	7
115°	10	33	96	118	121	10
125°	12	17	56	73	75	10
135°	10	10	27	45	46	8
145°	13	10	12	22	25	8
155°	13	13	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°	7702.3	7702.3	7702.3	7702.3	7702.3
2.5°	7669.1	7702.3	7703.9	7750.5	7745.5
5°	7630.8	7689.0	7730.5	7798.7	7790.4
7.5°	7567.7	7659.1	7732.2	7807.0	7800.3
10°	7477.9	7602.6	7699.0	7760.4	7740.5
12.5°	7361.6	7526.1	7620.9	7634.2	7595.9
15°	7220.4	7423.1	7494.6	7438.1	7378.2
17.5°	7060.8	7298.5	7323.4	7200.4	7125.7
20°	6861.4	7132.3	7107.4	6937.9	6854.8
22.5°	6640.4	6949.5	6869.7	6691.9	6612.2
25°	6397.8	6740.1	6625.5	6500.8	6507.5
27.5°	6113.6	6502.5	6391.2	6447.7	6554.0
30°	5824.5	6253.2	6185.1	6514.1	6723.5
32.5°	5507.1	5997.3	6058.8	6708.6	7050.9
35°	5193.0	5741.4	6028.9	7030.9	7481.3
37.5°	4845.7	5482.2	6077.1	7403.2	7875.1
40°	4508.4	5229.6	6186.8	7737.2	8136.0
42.5°	4164.4	5003.6	6371.2	7934.9	8245.7
45°	3823.7	4810.8	6575.6	7961.5	8127.7
47.5°	3483.1	4648.0	6716.9	7750.5	7674.0
50°	3154.0	4503.4	6726.8	7243.6	6931.2
52.5°	2846.6	4370.4	6544.0	6436.0	5950.8
55°	2545.8	4214.2	6123.6	5369.2	4772.6
57.5°	2271.6	3998.2	5475.5	4222.5	3571.1
60°	1980.8	3705.7	4638.0	3089.2	2575.7
62.5°	1713.3	3341.8	3699.1	2150.3	1851.2
65°	1460.7	2919.7	2803.4	1558.7	1341.0
67.5°	1193.1	2482.7	2068.9	1136.6	997.1
70°	983.8	2077.2	1540.5	884.1	802.6
72.5°	769.4	1691.7	1151.6	717.9	673.0
75°	588.3	1366.0	900.7	616.5	584.9
77.5°	433.7	1080.1	724.5	545.1	515.1
80°	304.1	850.8	606.5	486.9	475.3
82.5°	204.4	658.1	516.8	463.6	465.3
85°	124.6	486.9	458.6	448.7	453.7
87.5°	59.8	345.6	393.8	408.8	413.8
90°	1.7	176.1	302.4	345.6	354.0
92.5°	0.0	134.6	265.9	309.1	317.4
95°	3.3	103.0	241.0	282.5	290.8
97.5°	3.3	84.8	216.0	259.2	264.2
100°	5.0	73.1	192.8	234.3	239.3
102.5°	5.0	64.8	172.8	209.4	212.7
105°	6.6	58.2	156.2	187.8	191.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	10.0	39.9	109.7	132.9	136.3
115°	10.0	33.2	96.4	118.0	121.3
117.5°	11.6	29.9	84.8	104.7	106.4
120°	11.6	24.9	73.1	93.1	94.7
122.5°	11.6	19.9	64.8	83.1	84.8
125°	11.6	16.6	56.5	73.1	74.8
127.5°	10.0	11.6	48.2	64.8	66.5
130°	10.0	10.0	39.9	56.5	59.8
132.5°	10.0	10.0	33.2	49.9	53.2
135°	10.0	10.0	26.6	44.9	46.5
137.5°	10.0	10.0	21.6	38.2	41.5
140°	10.0	10.0	16.6	33.2	34.9
142.5°	11.6	10.0	15.0	28.3	29.9
145°	13.3	10.0	11.6	21.6	24.9
147.5°	13.3	11.6	11.6	18.3	19.9
150°	13.3	13.3	10.0	13.3	16.6
152.5°	13.3	13.3	10.0	10.0	13.3
155°	13.3	13.3	10.0	10.0	10.0
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°	8.3	51.5	139.6	167.8	171.2
110°	8.3	44.9	123.0	149.6	152.9



(END OF REPORT)