

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: P830044

Luminaire Tested: **OHBL-24HE-MFL-UNV-L735-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24HE-MFL-UNV-L735-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

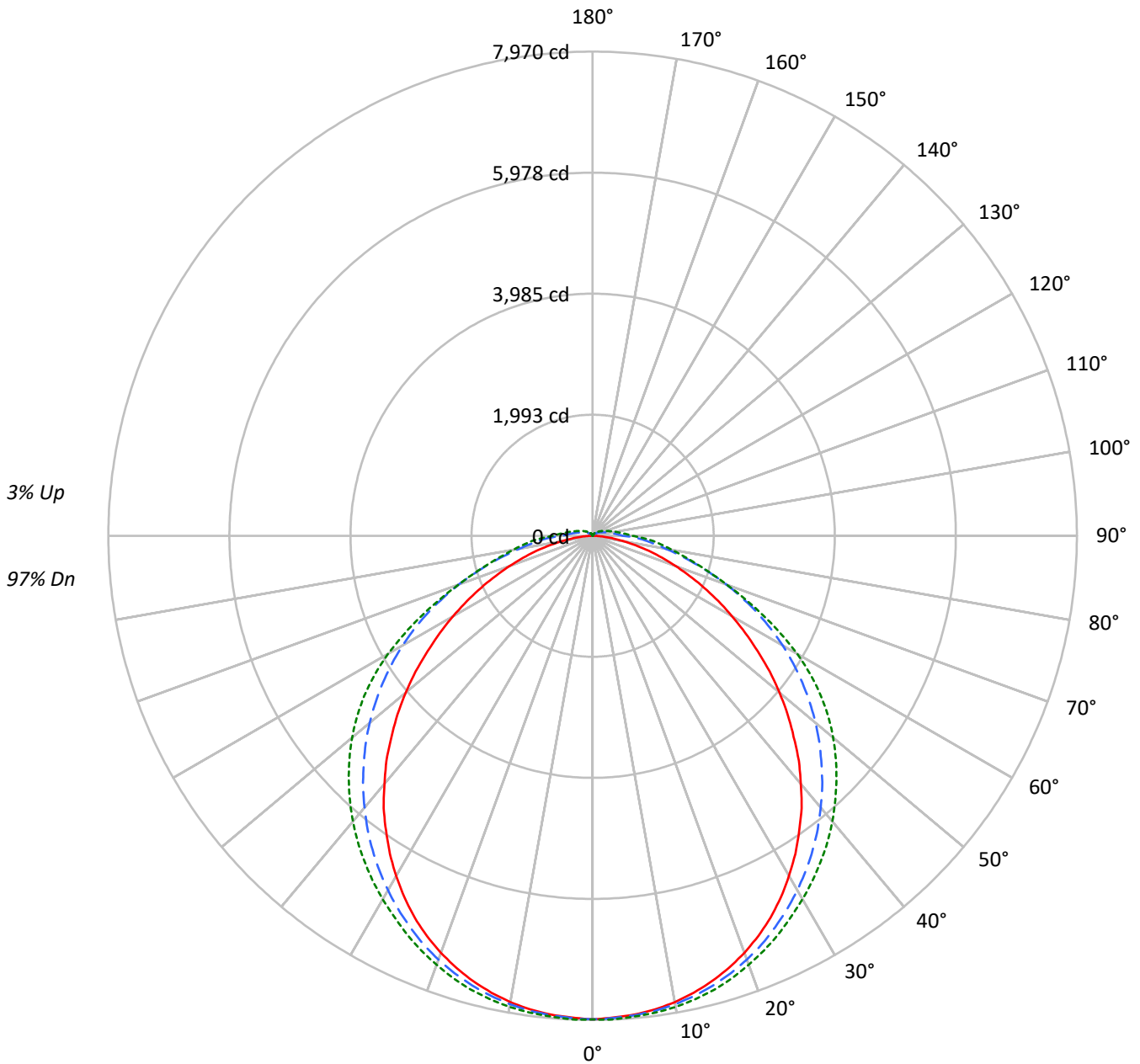
Lumens per Lamp: N/A
Luminaire Lumens: 23828.0 lumens
Efficiency: N/A
Efficacy: 179.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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				
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	86	84	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	75	72	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	67	62	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	59	54	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	53	48	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	48	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	44	38	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	37	32	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12591	12591	12591
5°	12511	12472	12510
10°	12423	12362	12445
15°	12284	12231	12359
20°	12100	12070	12233
25°	11854	11869	12105
30°	11513	11651	11977
35°	11101	11419	11867
40°	10606	11151	11758
45°	10022	10860	11619
50°	9383	10567	11450
55°	8597	10206	11165
60°	7793	9782	10596
65°	6915	9241	9661
70°	5963	8550	8647
75°	4999	7752	7963
80°	3791	7176	7900
85°	2399	7458	8828



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	754.4	3.2
10°-20°	2164.3	9.1
20°-30°	3273.1	13.7
30°-40°	3929.4	16.5
40°-50°	4058.5	17.0
50°-60°	3651.3	15.3
60°-70°	2750.5	11.5
70°-80°	1660.8	7.0
80°-90°	812.3	3.4
90°-100°	341.9	1.4
100°-110°	195.2	0.8
110°-120°	114.6	0.5
120°-130°	64.8	0.3
130°-140°	34.1	0.1
140°-150°	16.6	0.1
150°-160°	6.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6191.8	26.0
0°-40°	10121.3	42.5
0°-60°	17831.1	74.8
0°-90°	23054.7	96.8
90°-120°	651.6	2.7
90°-150°	767.1	3.2
90°-180°	773.0	3.2
0°-180°	23828.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7962	7962	7962	7962	7962	
5°	7911	7932	7923	7954	7944	752
15°	7592	7628	7664	7728	7736	2140
25°	6933	7009	7108	7219	7237	3189
35°	5927	6066	6315	6506	6545	3705
45°	4678	4914	5325	5616	5676	3612
55°	3314	3657	4213	4530	4585	2972
65°	2023	2436	2981	3129	3094	2009
75°	953	1368	1726	1771	1754	1016
85°	199	524	865	984	1002	230
90°	0	205	495	624	649	13
95°	10	138	370	472	489	8
105°	14	80	214	281	292	14
115°	16	45	132	177	185	16
125°	16	21	80	115	121	14
135°	14	18	41	70	78	11
145°	20	18	20	35	41	12
155°	20	21	20	18	20	6
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°	7961.7	7961.7	7961.7	7961.7	7961.7
2.5°	7938.3	7957.8	7946.1	7971.4	7969.5
5°	7911.0	7932.5	7922.7	7953.9	7944.2
7.5°	7864.3	7887.6	7885.7	7920.8	7916.9
10°	7796.1	7821.4	7829.2	7876.0	7876.0
12.5°	7702.5	7735.7	7755.1	7811.7	7813.6
15°	7591.5	7628.5	7663.6	7727.9	7735.7
17.5°	7457.0	7503.8	7552.5	7626.5	7636.3
20°	7305.0	7357.6	7423.9	7501.8	7513.5
22.5°	7129.7	7192.0	7277.8	7369.3	7383.0
25°	6932.9	7008.9	7108.2	7219.3	7236.8
27.5°	6708.8	6796.5	6930.9	7055.6	7071.2
30°	6465.2	6568.5	6736.1	6884.2	6909.5
32.5°	6208.0	6326.9	6533.4	6699.0	6734.1
35°	5927.4	6065.8	6315.2	6506.1	6545.1
37.5°	5650.7	5802.7	6085.3	6303.5	6350.3
40°	5327.3	5516.3	5839.7	6081.4	6137.9
42.5°	5023.3	5227.9	5594.2	5857.3	5911.8
45°	4678.4	4914.2	5325.3	5615.7	5676.1
47.5°	4355.0	4610.2	5066.2	5366.3	5428.6
50°	4014.0	4294.6	4789.5	5103.2	5167.5
52.5°	3673.0	3975.0	4503.1	4828.5	4888.9
55°	3314.4	3657.4	4212.7	4530.3	4584.9
57.5°	2981.3	3343.7	3914.6	4216.6	4249.7
60°	2651.9	3028.0	3610.6	3875.6	3887.3
62.5°	2330.4	2726.0	3298.9	3509.3	3493.7
65°	2022.6	2435.7	2981.3	3129.3	3094.3
67.5°	1726.4	2153.1	2655.8	2751.3	2704.6
70°	1445.8	1878.4	2340.2	2388.9	2346.0
72.5°	1198.3	1617.3	2020.6	2061.5	2030.4
75°	952.8	1367.9	1726.4	1771.2	1753.7
77.5°	722.9	1126.3	1455.6	1514.0	1517.9
80°	520.3	906.1	1219.8	1311.4	1323.1
82.5°	342.9	703.4	1023.0	1139.9	1157.4
85°	198.8	524.2	865.1	984.0	1001.5
87.5°	85.7	378.0	695.6	802.8	824.2
90°	0.0	204.6	494.9	623.5	648.9
92.5°	5.8	169.5	424.8	541.7	563.1
95°	9.7	138.3	370.2	471.5	489.1
97.5°	11.7	116.9	321.5	411.1	428.7
100°	11.7	101.3	278.6	360.5	376.1
102.5°	11.7	89.6	243.6	315.7	329.3
105°	13.6	79.9	214.3	280.6	292.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	15.6	52.6	148.1	198.8	206.5
115°	15.6	44.8	132.5	177.3	185.1
117.5°	17.5	39.0	116.9	159.8	165.6
120°	17.5	33.1	103.3	142.2	150.0
122.5°	17.5	27.3	91.6	128.6	134.4
125°	15.6	21.4	79.9	115.0	120.8
127.5°	13.6	17.5	68.2	103.3	109.1
130°	13.6	15.6	58.5	91.6	97.4
132.5°	13.6	17.5	48.7	79.9	87.7
135°	13.6	17.5	40.9	70.1	77.9
137.5°	13.6	17.5	33.1	60.4	68.2
140°	15.6	17.5	27.3	50.7	58.5
142.5°	17.5	17.5	21.4	42.9	48.7
145°	19.5	17.5	19.5	35.1	40.9
147.5°	19.5	19.5	19.5	27.3	33.1
150°	19.5	21.4	19.5	21.4	27.3
152.5°	19.5	21.4	19.5	17.5	21.4
155°	19.5	21.4	19.5	17.5	19.5
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°	13.6	70.1	189.0	249.4	259.2
110°	13.6	62.4	167.6	222.1	231.9



(END OF REPORT)