

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: P830049

Luminaire Tested: **OHBL-24HE-MFL-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830049
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-L840-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

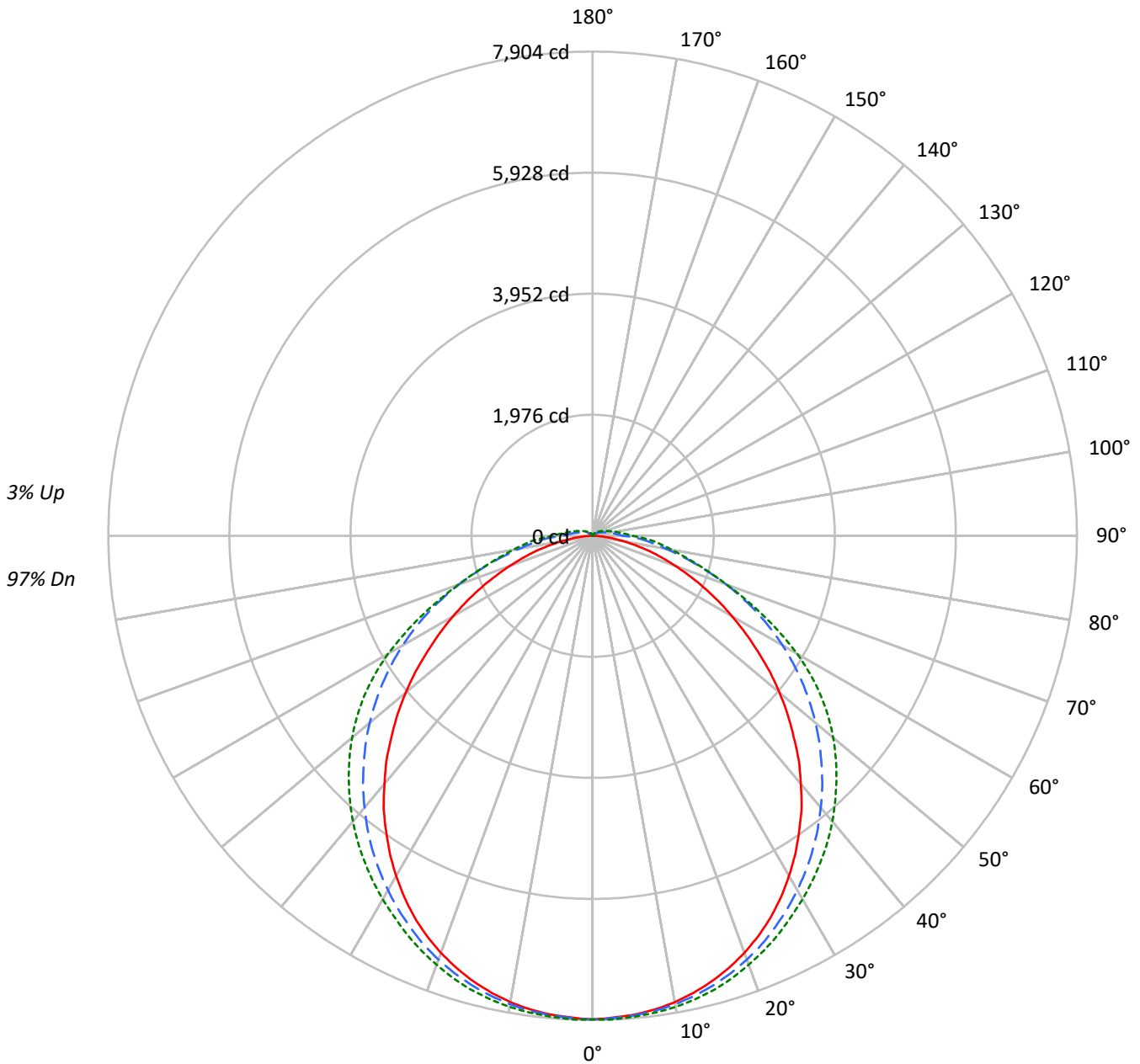
Lumens per Lamp: N/A
Luminaire Lumens: 23631.0 lumens
Efficiency: N/A
Efficacy: 177.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12487	12487	12487
5°	12407	12369	12407
10°	12320	12260	12342
15°	12183	12129	12256
20°	12000	11970	12132
25°	11756	11771	12005
30°	11418	11554	11878
35°	11009	11325	11769
40°	10518	11059	11660
45°	9939	10771	11523
50°	9305	10479	11355
55°	8526	10122	11073
60°	7728	9702	10508
65°	6858	9164	9581
70°	5914	8479	8576
75°	4958	7688	7898
80°	3759	7116	7835
85°	2378	7397	8756



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	748.2	3.2
10°-20°	2146.4	9.1
20°-30°	3246.1	13.7
30°-40°	3896.9	16.5
40°-50°	4024.9	17.0
50°-60°	3621.2	15.3
60°-70°	2727.8	11.5
70°-80°	1647.1	7.0
80°-90°	805.6	3.4
90°-100°	339.1	1.4
100°-110°	193.6	0.8
110°-120°	113.6	0.5
120°-130°	64.3	0.3
130°-140°	33.8	0.1
140°-150°	16.5	0.1
150°-160°	6.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6140.6	26.0
0°-40°	10037.6	42.5
0°-60°	17683.6	74.8
0°-90°	22864.1	96.8
90°-120°	646.3	2.7
90°-150°	760.8	3.2
90°-180°	767.0	3.2
0°-180°	23631.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7896	7896	7896	7896	7896	
5°	7846	7867	7857	7888	7878	745
15°	7529	7565	7600	7664	7672	2123
25°	6876	6951	7050	7160	7177	3163
35°	5878	6016	6263	6452	6491	3675
45°	4640	4874	5281	5569	5629	3582
55°	3287	3627	4178	4493	4547	2947
65°	2006	2416	2957	3104	3069	1993
75°	945	1357	1712	1757	1739	1008
85°	197	520	858	976	993	228
90°	0	203	491	618	644	12
95°	10	137	367	468	485	8
105°	14	79	213	278	290	14
115°	16	44	131	176	184	16
125°	16	21	79	114	120	14
135°	14	17	41	70	77	11
145°	19	17	19	35	41	11
155°	19	21	19	17	19	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°	7895.9	7895.9	7895.9	7895.9	7895.9
2.5°	7872.7	7892.0	7880.4	7905.5	7903.6
5°	7845.6	7866.9	7857.2	7888.1	7878.5
7.5°	7799.2	7822.4	7820.5	7855.3	7851.4
10°	7731.6	7756.7	7764.5	7810.8	7810.8
12.5°	7638.9	7671.7	7691.0	7747.1	7749.0
15°	7528.7	7565.4	7600.2	7664.0	7671.7
17.5°	7395.4	7441.8	7490.1	7563.5	7573.2
20°	7244.6	7296.8	7362.5	7439.8	7451.4
22.5°	7070.7	7132.6	7217.6	7308.4	7321.9
25°	6875.6	6950.9	7049.5	7159.6	7177.0
27.5°	6653.3	6740.3	6873.6	6997.3	7012.8
30°	6411.8	6514.2	6680.4	6827.2	6852.4
32.5°	6156.7	6274.6	6479.4	6643.7	6678.4
35°	5878.4	6015.6	6263.0	6452.4	6491.0
37.5°	5604.0	5754.7	6034.9	6251.4	6297.8
40°	5283.2	5470.7	5791.5	6031.1	6087.1
42.5°	4981.8	5184.7	5548.0	5808.9	5863.0
45°	4639.7	4873.6	5281.3	5569.2	5629.1
47.5°	4319.0	4572.1	5024.3	5321.9	5383.7
50°	3980.8	4259.1	4749.9	5061.0	5124.8
52.5°	3642.6	3942.1	4465.8	4788.5	4848.4
55°	3287.0	3627.2	4177.9	4492.9	4547.0
57.5°	2956.6	3316.0	3882.2	4181.8	4214.6
60°	2630.0	3003.0	3580.8	3843.6	3855.2
62.5°	2311.2	2703.5	3271.6	3480.3	3464.8
65°	2005.9	2415.5	2956.6	3103.5	3068.7
67.5°	1712.1	2135.3	2633.9	2728.6	2682.2
70°	1433.9	1862.9	2320.8	2369.1	2326.6
72.5°	1188.4	1603.9	2003.9	2044.5	2013.6
75°	945.0	1356.6	1712.1	1756.6	1739.2
77.5°	716.9	1116.9	1443.5	1501.5	1505.4
80°	516.0	898.6	1209.7	1300.5	1312.1
82.5°	340.1	697.6	1014.5	1130.5	1147.9
85°	197.1	519.8	858.0	975.9	993.3
87.5°	85.0	374.9	689.9	796.2	817.4
90°	0.0	202.9	490.8	618.4	643.5
92.5°	5.8	168.1	421.3	537.2	558.5
95°	9.7	137.2	367.2	467.6	485.0
97.5°	11.6	115.9	318.8	407.7	425.1
100°	11.6	100.5	276.3	357.5	373.0
102.5°	11.6	88.9	241.6	313.1	326.6
105°	13.5	79.2	212.6	278.3	289.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	15.5	52.2	146.9	197.1	204.8
115°	15.5	44.4	131.4	175.9	183.6
117.5°	17.4	38.6	115.9	158.5	164.3
120°	17.4	32.9	102.4	141.1	148.8
122.5°	17.4	27.1	90.8	127.5	133.3
125°	15.5	21.3	79.2	114.0	119.8
127.5°	13.5	17.4	67.6	102.4	108.2
130°	13.5	15.5	58.0	90.8	96.6
132.5°	13.5	17.4	48.3	79.2	87.0
135°	13.5	17.4	40.6	69.6	77.3
137.5°	13.5	17.4	32.9	59.9	67.6
140°	15.5	17.4	27.1	50.2	58.0
142.5°	17.4	17.4	21.3	42.5	48.3
145°	19.3	17.4	19.3	34.8	40.6
147.5°	19.3	19.3	19.3	27.1	32.9
150°	19.3	21.3	19.3	21.3	27.1
152.5°	19.3	21.3	19.3	17.4	21.3
155°	19.3	21.3	19.3	17.4	19.3
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°	13.5	69.6	187.4	247.3	257.0
110°	13.5	61.8	166.2	220.3	230.0



(END OF REPORT)