

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: P827134

Luminaire Tested: **OHBL-24HE-MFL-UNV-L840-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827134
REPORT IS A COMBINATION OF REPORTS P826241 AND G3-2310-221-6
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-UPL24
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENSAND 2400 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

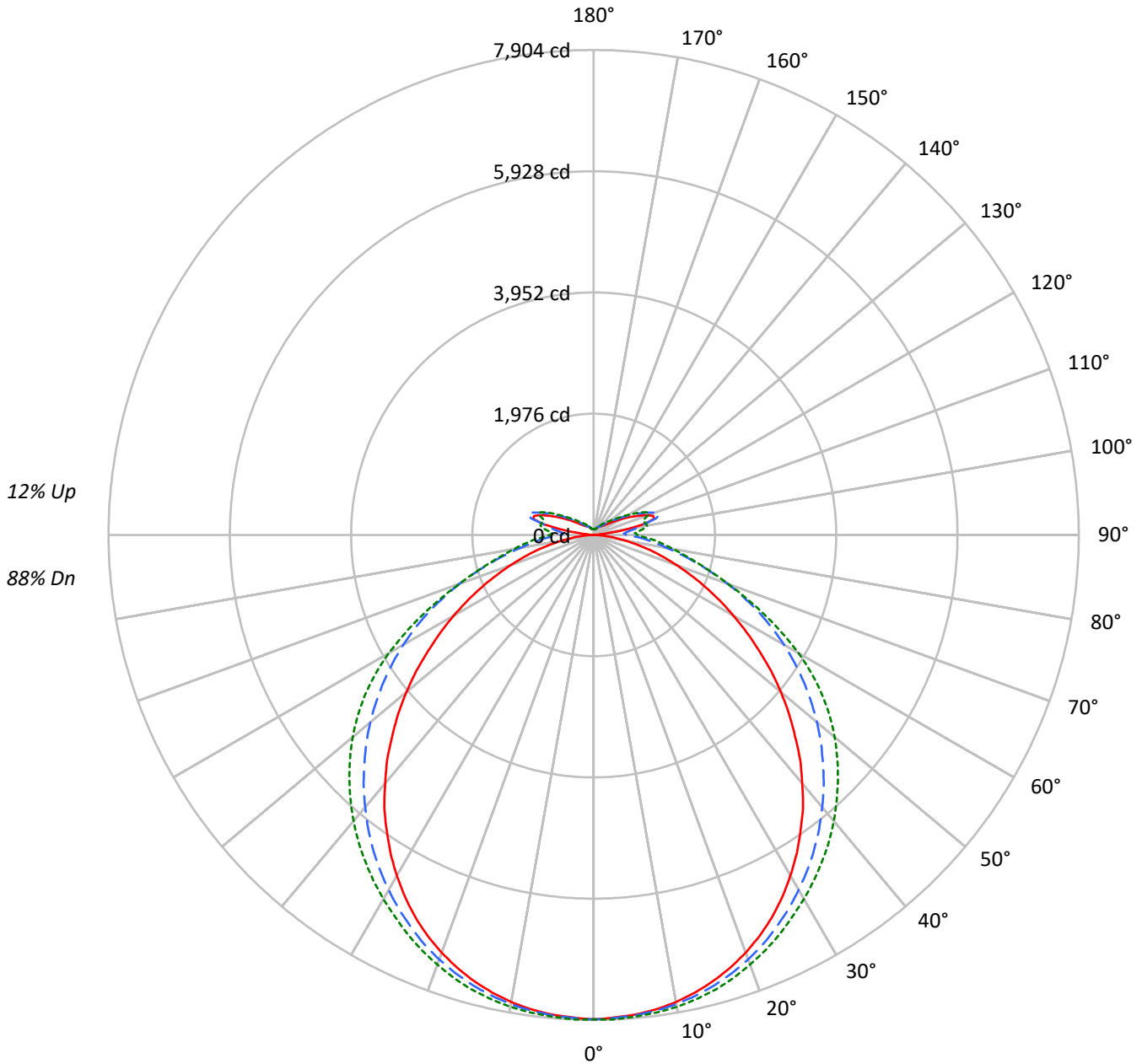
Lumens per Lamp: N/A
Luminaire Lumens: 26051.3 lumens
Efficiency: N/A
Efficacy: 173.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 150.4
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				
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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88			88
1	105	100	96	92	101	97	93	89	91	87	84	85	82	80	79	77	75	72			72
2	96	87	81	75	92	84	78	73	79	74	69	74	70	66	69	66	63	60			60
3	87	77	69	62	84	74	67	61	69	63	58	65	60	56	61	57	53	50			50
4	80	68	59	52	77	66	58	51	62	55	49	58	52	47	54	50	46	43			43
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	40	37			37
6	68	54	46	39	65	53	45	39	50	43	37	47	41	36	44	39	35	32			32
7	63	49	41	35	60	48	40	34	45	38	33	43	37	32	40	35	31	29			29
8	58	45	37	31	56	44	36	30	41	34	29	39	33	28	37	32	28	26			26
9	54	41	33	28	52	40	32	27	38	31	26	36	30	26	34	29	25	23			23
10	51	38	30	25	49	37	30	25	35	29	24	33	27	23	32	26	23	21			21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12487	12487	12487
5°	12355	12369	12459
10°	12216	12260	12446
15°	12028	12129	12414
20°	11795	11970	12342
25°	11501	11771	12271
30°	11114	11554	12203
35°	10658	11325	12156
40°	10121	11059	12118
45°	9497	10771	12058
50°	8821	10479	11979
55°	8004	10122	11794
60°	7169	9702	11329
65°	6262	9164	10491
70°	5285	8479	9596
75°	4291	7688	9126
80°	3081	7116	9560
85°	1737	7397	11985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	748.2	2.9
10°-20°	2146.4	8.2
20°-30°	3246.1	12.5
30°-40°	3896.9	15.0
40°-50°	4024.9	15.4
50°-60°	3621.2	13.9
60°-70°	2727.8	10.5
70°-80°	1647.1	6.3
80°-90°	811.7	3.1
90°-100°	570.9	2.2
100°-110°	998.5	3.8
110°-120°	804.1	3.1
120°-130°	395.5	1.5
130°-140°	199.6	0.8
140°-150°	112.5	0.4
150°-160°	62.1	0.2
160°-170°	29.0	0.1
170°-180°	8.8	0.0
0°-30°	6140.6	23.6
0°-40°	10037.6	38.5
0°-60°	17683.6	67.9
0°-90°	22870.3	87.8
90°-120°	2373.5	9.1
90°-150°	3081.1	11.8
90°-180°	3181.0	12.2
0°-180°	26051.3	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°	5	237	538	680	712	16
95°	63	248	539	696	743	173
105°	1016	1071	1057	879	842	965
115°	708	743	830	873	875	714
125°	354	377	442	476	479	331
135°	214	221	252	283	292	169
145°	164	166	171	188	195	104
155°	135	139	139	138	140	60
165°	100	101	102	102	102	29
175°	90	91	91	92	92	9
180°	90	90	90	90	90	



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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°	5.0	236.9	537.8	680.4	712.5
92.5°	22.8	213.1	493.3	639.2	673.5
95°	62.7	248.2	539.2	695.6	743.0
97.5°	280.6	406.9	631.8	786.7	837.1
100°	563.6	686.5	749.3	857.5	882.0
102.5°	864.6	936.9	859.6	867.1	872.6
105°	1016.5	1071.2	1056.6	879.3	841.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	823.5	872.2	950.9	978.1	953.8
115°	707.5	743.4	830.4	872.9	874.6
117.5°	609.4	631.6	712.9	754.5	761.3
120°	507.4	533.9	612.4	646.1	647.8
122.5°	428.4	450.1	519.8	554.5	554.3
125°	353.5	377.3	442.2	476.0	478.8
127.5°	299.5	316.4	376.6	412.4	417.2
130°	262.5	272.5	325.0	358.8	365.6
132.5°	234.5	245.4	283.3	318.2	325.0
135°	213.5	221.4	251.6	282.6	292.3
137.5°	196.5	203.4	224.9	254.9	262.6
140°	183.5	189.4	204.1	229.2	238.0
142.5°	172.4	176.4	184.3	207.5	213.3
145°	164.3	166.4	171.3	187.8	194.6
147.5°	155.3	159.3	161.3	171.1	176.9
150°	148.3	152.3	153.3	156.3	163.1
152.5°	141.3	145.3	146.3	145.4	149.3
155°	135.3	139.3	139.3	138.4	140.3
157.5°	111.0	113.0	115.0	116.0	116.0
160°	107.0	108.0	110.0	111.0	111.0
162.5°	103.0	104.0	105.0	106.0	106.0
165°	100.0	101.0	102.0	102.0	102.0
167.5°	97.0	97.0	98.0	99.0	99.0
170°	94.0	95.0	95.0	96.0	96.0
172.5°	92.0	93.0	93.0	93.0	94.0
175°	90.0	91.0	91.0	92.0	92.0
177.5°	90.0	90.0	90.0	90.0	90.0
180°	90.0	90.0	90.0	90.0	90.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	1020.5	1080.6	1120.4	976.3	864.0
110°	942.5	999.8	1059.2	1036.3	948.0



(END OF REPORT)