

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: P827152

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827152
REPORT IS A COMBINATION OF REPORTS P826247 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-24SE-MFL-UNV-L840-CD-UPL24
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS AND 2400 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

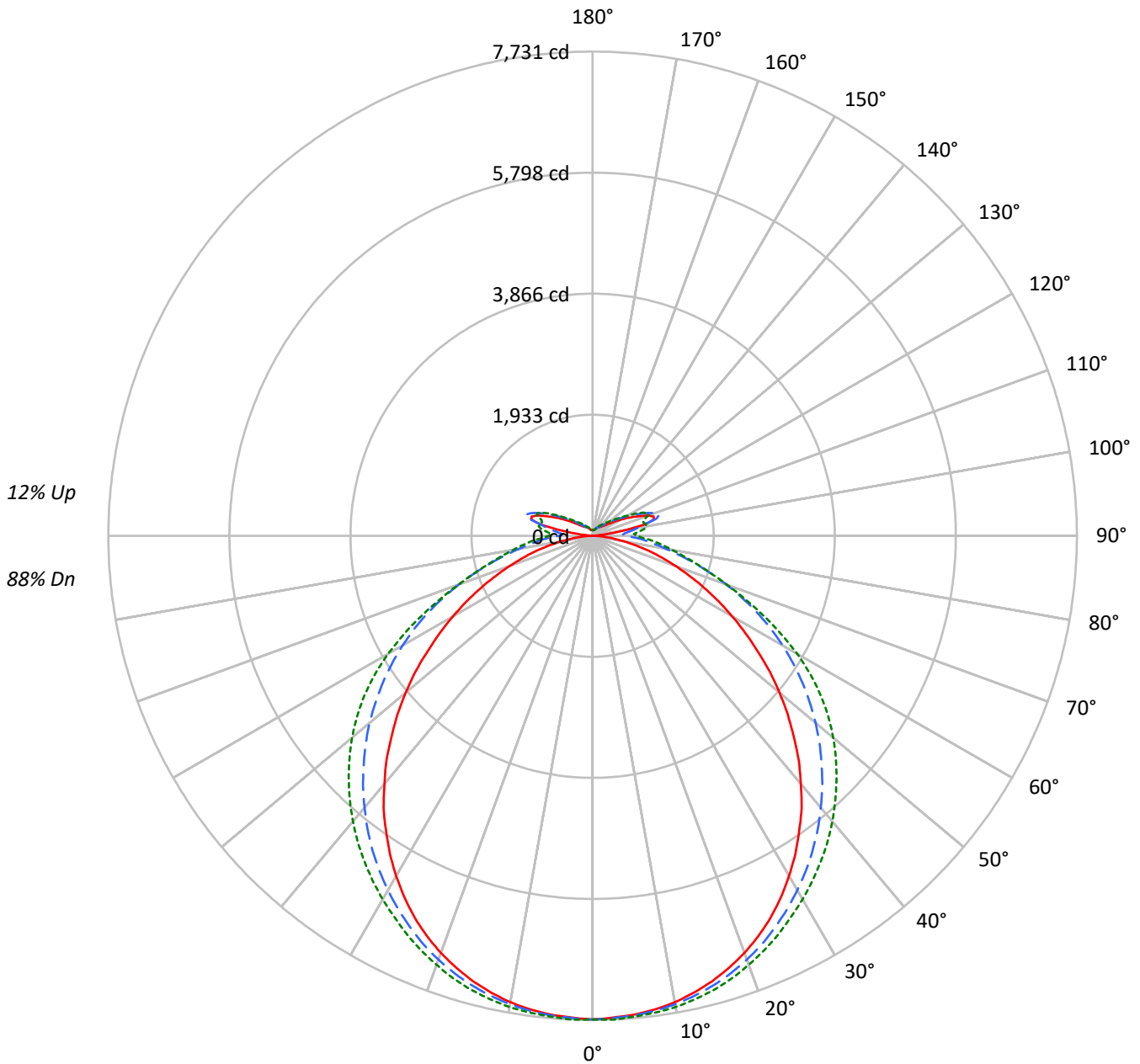
Lumens per Lamp: N/A
Luminaire Lumens: 25536.3 lumens
Efficiency: N/A
Efficacy: 164.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 155.4
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									
RC	80									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																			
1	105	100	96	92	101	97	93	89	90	87	84	84	82	80	79	77	75	72																			
2	96	87	80	75	92	84	78	73	79	74	69	74	70	66	69	66	63	60																			
3	87	77	68	62	84	74	67	61	69	63	58	65	60	55	61	57	53	50																			
4	80	68	59	52	77	66	58	51	62	55	49	58	52	47	54	49	45	43																			
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	39	37																			
6	68	54	46	39	65	53	45	39	50	43	37	47	41	36	44	39	35	32																			
7	63	49	41	35	60	48	40	34	45	38	33	43	36	32	40	35	31	29																			
8	58	45	36	31	56	44	36	30	41	34	29	39	33	28	37	32	28	26																			
9	54	41	33	28	52	40	32	27	38	31	26	36	30	26	34	29	25	23																			
10	51	38	30	25	49	37	30	25	35	28	24	33	27	23	32	26	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13192	13192	13192
5°	13044	13061	13163
10°	12890	12940	13149
15°	12682	12797	13115
20°	12429	12622	13039
25°	12110	12406	12964
30°	11694	12172	12892
35°	11205	11923	12843
40°	10631	11636	12803
45°	9966	11325	12739
50°	9245	11009	12656
55°	8378	10624	12460
60°	7491	10170	11968
65°	6529	9593	11084
70°	5494	8858	10138
75°	4442	8007	9641
80°	3167	7376	10099
85°	1763	7598	12661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	731.9	2.9
10°-20°	2099.6	8.2
20°-30°	3175.3	12.4
30°-40°	3812.0	14.9
40°-50°	3937.2	15.4
50°-60°	3542.2	13.9
60°-70°	2668.3	10.4
70°-80°	1611.2	6.3
80°-90°	794.2	3.1
90°-100°	563.5	2.2
100°-110°	994.2	3.9
110°-120°	801.6	3.1
120°-130°	394.1	1.5
130°-140°	198.8	0.8
140°-150°	112.2	0.4
150°-160°	62.0	0.2
160°-170°	29.0	0.1
170°-180°	8.8	0.0
0°-30°	6006.8	23.5
0°-40°	9818.8	38.5
0°-60°	17298.2	67.7
0°-90°	22371.9	87.6
90°-120°	2359.4	9.2
90°-150°	3064.5	12.0
90°-180°	3164.0	12.4
0°-180°	25536.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7724	7724	7724	7724	7724	
5°	7675	7695	7686	7716	7707	729
15°	7365	7400	7435	7497	7504	2076
25°	6726	6799	6896	7004	7021	3094
35°	5750	5884	6126	6312	6350	3595
45°	4539	4767	5166	5448	5506	3504
55°	3215	3548	4087	4395	4448	2883
65°	1962	2363	2892	3036	3002	1949
75°	924	1327	1675	1718	1701	986
85°	193	508	839	955	972	223
90°	5	232	527	667	698	16
95°	62	245	531	686	732	173
105°	1016	1070	1052	873	836	965
115°	707	742	828	869	871	713
125°	353	377	440	474	476	331
135°	213	221	251	281	291	169
145°	164	166	171	187	194	103
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°	7723.8	7723.8	7723.8	7723.8	7723.8
2.5°	7701.1	7720.0	7708.7	7733.2	7731.4
5°	7674.6	7695.4	7686.0	7716.2	7706.8
7.5°	7629.3	7652.0	7650.1	7684.1	7680.3
10°	7563.1	7587.7	7595.3	7640.6	7640.6
12.5°	7472.4	7504.5	7523.4	7578.2	7580.1
15°	7364.6	7400.5	7434.6	7497.0	7504.5
17.5°	7234.2	7279.6	7326.8	7398.7	7408.1
20°	7086.8	7137.8	7202.1	7277.7	7289.0
22.5°	6916.6	6977.1	7060.3	7149.1	7162.4
25°	6725.7	6799.4	6895.8	7003.6	7020.6
27.5°	6508.3	6593.4	6723.8	6844.8	6859.9
30°	6272.0	6372.2	6534.8	6678.5	6703.0
32.5°	6022.5	6137.8	6338.2	6498.9	6532.9
35°	5750.3	5884.5	6126.5	6311.7	6349.5
37.5°	5481.9	5629.3	5903.4	6115.1	6160.5
40°	5168.1	5351.5	5665.2	5899.6	5954.5
42.5°	4873.2	5071.7	5427.1	5682.3	5735.2
45°	4538.6	4767.4	5166.2	5447.9	5506.5
47.5°	4224.8	4472.5	4914.8	5205.9	5266.4
50°	3894.0	4166.2	4646.4	4950.7	5013.1
52.5°	3563.2	3856.2	4368.5	4684.2	4742.8
55°	3215.4	3548.1	4086.8	4395.0	4447.9
57.5°	2892.2	3243.8	3797.6	4090.6	4122.8
60°	2572.7	2937.5	3502.7	3759.8	3771.2
62.5°	2260.8	2644.5	3200.3	3404.4	3389.3
65°	1962.1	2362.9	2892.2	3035.8	3001.8
67.5°	1674.8	2088.8	2576.5	2669.1	2623.7
70°	1402.6	1822.3	2270.3	2317.5	2275.9
72.5°	1162.5	1569.0	1960.2	1999.9	1969.7
75°	924.4	1327.0	1674.8	1718.3	1701.3
77.5°	701.3	1092.6	1412.1	1468.8	1472.5
80°	504.7	879.0	1183.3	1272.2	1283.5
82.5°	332.7	682.4	992.4	1105.8	1122.8
85°	192.8	508.5	839.3	954.6	971.6
87.5°	83.2	366.7	674.8	778.8	799.6
90°	5.0	232.5	527.1	666.9	698.5
92.5°	22.7	209.5	484.1	627.5	661.3
95°	62.5	245.2	531.2	685.5	732.5
97.5°	280.3	404.4	624.9	777.9	827.9
100°	563.3	684.3	743.3	849.7	873.8
102.5°	864.3	935.0	854.3	860.2	865.5
105°	1016.2	1069.5	1051.9	873.2	835.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	823.1	871.0	947.7	973.8	949.4
115°	707.1	742.5	827.5	869.0	870.6
117.5°	609.0	630.8	710.4	751.0	757.7
120°	507.0	533.1	610.2	643.0	644.6
122.5°	428.0	449.5	517.8	551.8	551.4
125°	353.1	376.8	440.5	473.5	476.2
127.5°	299.2	316.0	375.2	410.2	414.9
130°	262.2	272.1	323.7	356.8	363.5
132.5°	234.2	245.0	282.3	316.5	323.1
135°	213.2	221.0	250.7	281.1	290.6
137.5°	196.2	203.0	224.1	253.6	261.2
140°	183.1	189.0	203.5	228.1	236.7
142.5°	172.0	176.0	183.8	206.6	212.3
145°	163.9	166.0	170.9	187.0	193.7
147.5°	154.9	158.9	160.9	170.5	176.1
150°	147.9	151.8	152.9	155.8	162.5
152.5°	140.9	144.8	145.9	145.0	148.8
155°	134.9	138.8	138.9	138.0	139.9
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°	1020.2	1079.1	1116.4	971.0	858.4
110°	942.2	998.5	1055.6	1031.5	942.9



(END OF REPORT)