

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: P827130

Luminaire Tested: **OHBL-24HE-MCL-UNV-L840-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827130
REPORT IS A COMBINATION OF REPORTS P826072 AND G3-2310-221-12
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24HE-MCL-UNV-L840-CD-UPL12
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS AND 1200 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

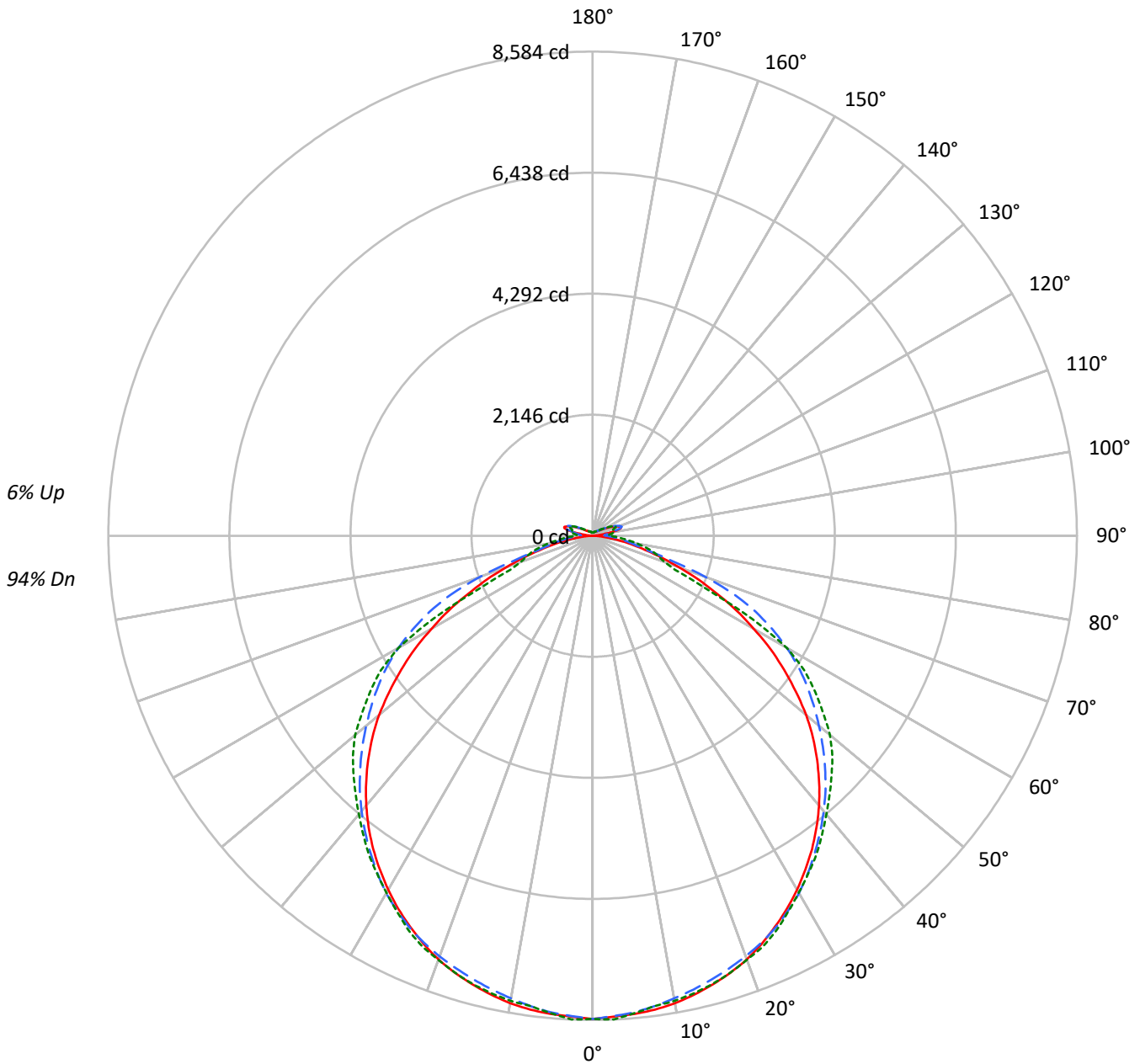
Lumens per Lamp: N/A
Luminaire Lumens: 25458.3 lumens
Efficiency: N/A
Efficacy: 180.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 141.4
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94																			
1	108	103	99	95	104	100	97	93	95	92	89	90	88	85	86	84	82	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	67																			
3	90	79	71	65	87	77	70	64	74	67	62	70	65	60	67	62	59	56																			
4	82	70	62	55	79	69	61	54	65	59	53	62	56	52	60	55	50	48																			
5	75	63	54	47	73	61	53	47	59	51	46	56	50	45	54	48	44	42																			
6	70	56	48	41	67	55	47	41	53	46	40	51	44	39	49	43	39	36																			
7	64	51	43	36	62	50	42	36	48	41	35	46	40	35	44	39	34	32																			
8	60	47	38	32	58	46	38	32	44	37	32	42	36	31	41	35	31	29																			
9	56	43	35	29	54	42	34	29	40	33	28	39	33	28	37	32	28	26																			
10	52	39	32	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13548	13548	13548
5°	13402	13351	13436
10°	13297	13149	13343
15°	13156	12998	13311
20°	13013	12902	13252
25°	12796	12806	13197
30°	12563	12655	13012
35°	12293	12415	12944
40°	11959	12167	12833
45°	11519	11880	12837
50°	10946	11554	12838
55°	10083	11233	12479
60°	8984	10763	11677
65°	7587	9890	7517
70°	5981	7721	5568
75°	4342	4583	5836
80°	2863	3811	5884
85°	1452	3491	6187



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	807.7	3.2
10°-20°	2316.2	9.1
20°-30°	3537.6	13.9
30°-40°	4292.4	16.9
40°-50°	4498.8	17.7
50°-60°	4076.6	16.0
60°-70°	2733.2	10.7
70°-80°	1227.3	4.8
80°-90°	448.5	1.8
90°-100°	253.0	1.0
100°-110°	477.2	1.9
110°-120°	387.2	1.5
120°-130°	187.9	0.7
130°-140°	97.3	0.4
140°-150°	57.7	0.2
150°-160°	34.9	0.1
160°-170°	18.9	0.1
170°-180°	5.8	0.0
0°-30°	6661.6	26.2
0°-40°	10954.0	43.0
0°-60°	19529.4	76.7
0°-90°	23938.5	94.0
90°-120°	1117.5	4.4
90°-150°	1460.3	5.7
90°-180°	1520.0	6.0
0°-180°	25458.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8567	8567	8567	8567	8567	
5°	8511	8541	8481	8507	8496	809
15°	8235	8202	8144	8216	8226	2325
25°	7650	7616	7670	7740	7718	3526
35°	6780	6796	6866	6939	6912	4238
45°	5627	5719	5825	5974	5993	4335
55°	4141	4340	4636	4822	4811	3696
65°	2430	2810	3191	2693	2199	2421
75°	956	1387	1021	1044	1112	1045
85°	165	316	405	489	513	201
90°	4	123	233	294	310	12
95°	26	124	230	291	314	84
105°	522	540	507	394	373	495
115°	370	375	397	404	400	369
125°	185	193	209	211	213	173
135°	113	117	123	130	131	90
145°	86	89	90	93	95	55
155°	72	75	76	77	75	34
165°	66	66	67	67	67	19
175°	61	61	59	58	58	6
180°	58	58	58	58	58	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8566.6	8566.6	8566.6	8566.6	8566.6
2.5°	8531.9	8567.8	8523.2	8571.5	8583.9
5°	8510.8	8540.6	8481.1	8507.1	8496.0
7.5°	8472.4	8482.4	8411.7	8432.8	8410.5
10°	8415.5	8410.5	8327.5	8368.4	8373.3
12.5°	8331.2	8316.4	8242.1	8304.0	8305.2
15°	8234.6	8202.4	8144.2	8216.0	8225.9
17.5°	8123.1	8081.0	8042.6	8135.5	8120.7
20°	7993.1	7943.5	7936.1	8037.7	8000.5
22.5°	7832.1	7793.7	7811.0	7907.6	7884.1
25°	7650.0	7616.5	7669.8	7740.4	7718.1
27.5°	7458.0	7438.2	7498.9	7553.4	7510.0
30°	7247.4	7236.3	7316.8	7361.4	7306.9
32.5°	7018.3	7022.0	7098.8	7159.5	7108.7
35°	6780.4	6796.5	6865.9	6939.0	6911.7
37.5°	6519.1	6555.0	6624.4	6707.3	6678.9
40°	6242.9	6294.9	6371.7	6472.0	6446.0
42.5°	5944.3	6010.0	6109.1	6220.6	6218.1
45°	5627.2	5718.9	5825.4	5974.1	5992.6
47.5°	5297.8	5400.6	5535.6	5733.8	5762.3
50°	4939.8	5068.6	5237.1	5474.9	5492.2
52.5°	4540.9	4716.8	4939.8	5167.7	5146.6
55°	4140.8	4340.3	4636.3	4822.1	4811.0
57.5°	3742.0	3966.2	4325.4	4457.9	4456.7
60°	3296.1	3579.7	3972.4	4072.7	3973.6
62.5°	2883.6	3188.3	3595.8	3522.8	3183.4
65°	2430.3	2810.5	3190.8	2692.8	2198.6
67.5°	2027.7	2424.1	2710.2	1844.4	1579.3
70°	1622.6	2059.9	2113.2	1368.7	1350.1
72.5°	1263.4	1729.2	1457.9	1171.8	1231.2
75°	956.2	1387.3	1020.7	1044.2	1112.3
77.5°	697.4	1065.2	794.0	915.4	971.1
80°	479.4	754.3	647.8	769.2	807.6
82.5°	301.0	497.9	519.0	619.3	659.0
85°	164.7	315.9	405.0	489.3	512.8
87.5°	68.1	190.8	309.7	377.8	397.6
90°	4.2	123.3	233.3	293.6	310.0
92.5°	10.2	103.5	208.9	265.8	279.5
95°	26.2	123.6	229.7	290.7	313.6
97.5°	137.5	199.0	286.2	340.9	355.9
100°	279.7	340.4	347.3	379.4	388.1
102.5°	444.0	467.7	400.2	387.6	386.3
105°	522.0	539.5	506.6	394.5	373.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	426.7	438.3	460.1	455.3	440.7
115°	369.9	374.9	396.9	403.8	400.3
117.5°	311.9	318.4	340.0	344.4	344.9
120°	262.9	270.1	288.3	290.4	291.7
122.5°	222.9	227.9	244.5	247.7	250.0
125°	184.7	192.9	209.3	211.0	213.3
127.5°	156.9	162.9	179.8	182.5	183.8
130°	137.9	143.1	154.3	160.3	160.3
132.5°	125.1	129.4	137.1	143.1	144.1
135°	113.1	117.4	122.6	129.8	131.1
137.5°	106.4	108.4	111.4	118.6	120.8
140°	98.4	101.4	102.1	108.1	109.3
142.5°	91.1	94.4	95.1	99.9	102.1
145°	86.1	89.4	90.4	92.6	94.9
147.5°	82.4	84.4	86.4	86.4	88.6
150°	79.4	80.4	81.4	82.4	82.4
152.5°	75.4	76.4	77.4	78.4	78.4
155°	72.4	74.6	75.6	76.6	75.4
157.5°	69.4	72.6	72.6	73.6	73.6
160°	67.4	69.6	70.6	70.6	70.6
162.5°	66.6	67.6	67.6	68.6	68.6
165°	65.6	65.6	66.6	66.6	66.6
167.5°	63.6	64.9	64.6	64.6	64.6
170°	62.6	62.6	62.6	62.4	62.4
172.5°	61.6	61.6	61.6	60.4	60.4
175°	60.6	60.6	59.4	58.1	58.1
177.5°	60.9	60.6	59.4	58.1	56.9
180°	58.4	58.4	58.4	58.4	58.4



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	526.2	545.5	541.7	446.1	384.6
110°	483.4	502.8	511.8	481.9	433.4



(END OF REPORT)