

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: P830037

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830037
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
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
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

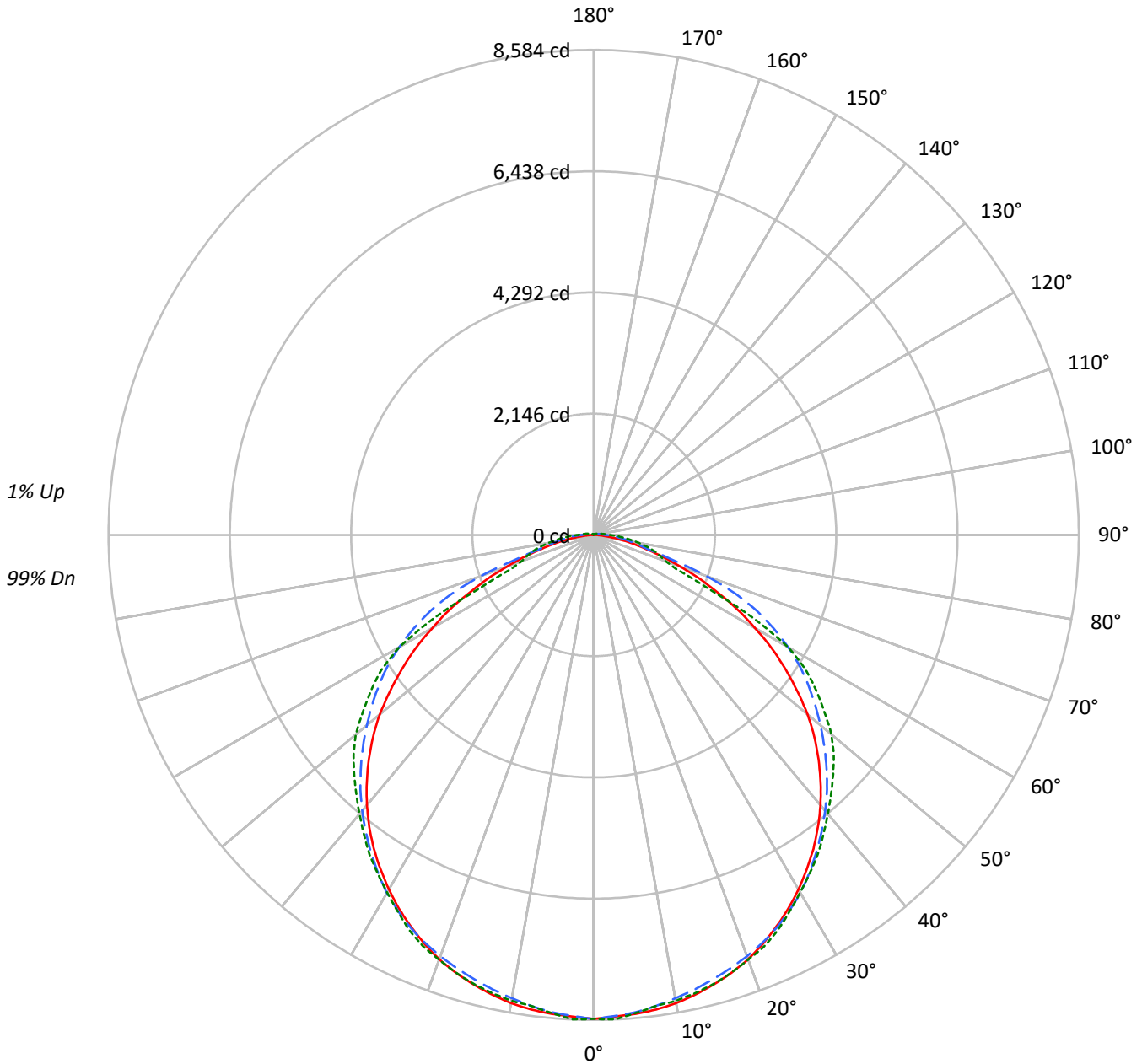
Lumens per Lamp: N/A
Luminaire Lumens: 24213.0 lumens
Efficiency: N/A
Efficacy: 182.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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									
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	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101					99															
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86					83															
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72					70															
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61					59															
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53					51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46					44															
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40					38															
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36					34															
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32					30															
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29					27															
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26					24															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13548	13548	13548
5°	13459	13351	13379
10°	13410	13149	13230
15°	13325	12998	13142
20°	13240	12902	13026
25°	13080	12806	12910
30°	12906	12655	12666
35°	12698	12415	12531
40°	12429	12167	12348
45°	12054	11880	12267
50°	11547	11554	12170
55°	10741	11233	11715
60°	9686	10763	10831
65°	8309	9890	6864
70°	6692	7721	4977
75°	5017	4583	5051
80°	3493	3811	4822
85°	1987	3491	4520



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	807.7	3.3
10°-20°	2316.2	9.6
20°-30°	3537.6	14.6
30°-40°	4292.4	17.7
40°-50°	4498.8	18.6
50°-60°	4076.6	16.8
60°-70°	2733.2	11.3
70°-80°	1227.3	5.1
80°-90°	445.4	1.8
90°-100°	134.1	0.6
100°-110°	63.3	0.3
110°-120°	31.7	0.1
120°-130°	17.5	0.1
130°-140°	12.0	0.0
140°-150°	8.1	0.0
150°-160°	6.0	0.0
160°-170°	3.9	0.0
170°-180°	1.2	0.0
0°-30°	6661.6	27.5
0°-40°	10954.0	45.2
0°-60°	19529.4	80.7
0°-90°	23935.3	98.9
90°-120°	229.0	0.9
90°-150°	266.6	1.1
90°-180°	278.0	1.1
0°-180°	24213.0	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°	1	105	209	263	275	10
95°	1	66	144	175	180	2
105°	5	28	71	86	89	6
115°	10	15	36	46	48	9
125°	9	10	22	26	27	9
135°	11	12	14	20	21	9
145°	11	12	12	14	15	7
155°	12	14	14	14	12	6
165°	14	14	14	14	14	4
175°	14	14	12	11	11	1
180°	12	12	12	12	12	



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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°	1.2	105.3	209.3	262.6	275.0
92.5°	1.2	80.5	170.9	211.8	220.5
95°	1.2	65.6	143.7	174.7	179.6
97.5°	2.5	52.0	120.2	144.9	149.9
100°	3.7	43.4	100.3	121.4	125.1
102.5°	5.0	34.7	84.2	101.6	105.3
105°	5.0	28.5	70.6	85.5	89.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.7	17.3	42.1	53.3	55.7
115°	9.9	14.9	35.9	45.8	48.3
117.5°	9.9	12.4	31.0	38.4	40.9
120°	9.9	11.1	27.3	33.4	34.7
122.5°	9.9	9.9	23.5	29.7	31.0
125°	8.7	9.9	22.3	26.0	27.3
127.5°	9.9	9.9	19.8	23.5	24.8
130°	9.9	11.1	17.3	22.3	22.3
132.5°	11.1	12.4	16.1	21.1	21.1
135°	11.1	12.4	13.6	19.8	21.1
137.5°	12.4	12.4	12.4	18.6	19.8
140°	12.4	12.4	11.1	16.1	17.3
142.5°	11.1	12.4	11.1	14.9	16.1
145°	11.1	12.4	12.4	13.6	14.9
147.5°	12.4	12.4	12.4	12.4	13.6
150°	12.4	12.4	12.4	12.4	12.4
152.5°	12.4	12.4	12.4	12.4	12.4
155°	12.4	13.6	13.6	13.6	12.4
157.5°	12.4	13.6	13.6	13.6	13.6
160°	12.4	13.6	13.6	13.6	13.6
162.5°	13.6	13.6	13.6	13.6	13.6
165°	13.6	13.6	13.6	13.6	13.6
167.5°	13.6	14.9	13.6	13.6	13.6
170°	13.6	13.6	13.6	12.4	12.4
172.5°	13.6	13.6	13.6	12.4	12.4
175°	13.6	13.6	12.4	11.1	11.1
177.5°	14.9	13.6	12.4	11.1	9.9
180°	12.4	12.4	12.4	12.4	12.4



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	6.2	23.5	60.7	73.1	75.6
110°	7.4	19.8	50.8	61.9	64.4



(END OF REPORT)