

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: P830110

Luminaire Tested: **OHBL-24SE-MCL-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830110
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-24SE-MCL-UNV-L850-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

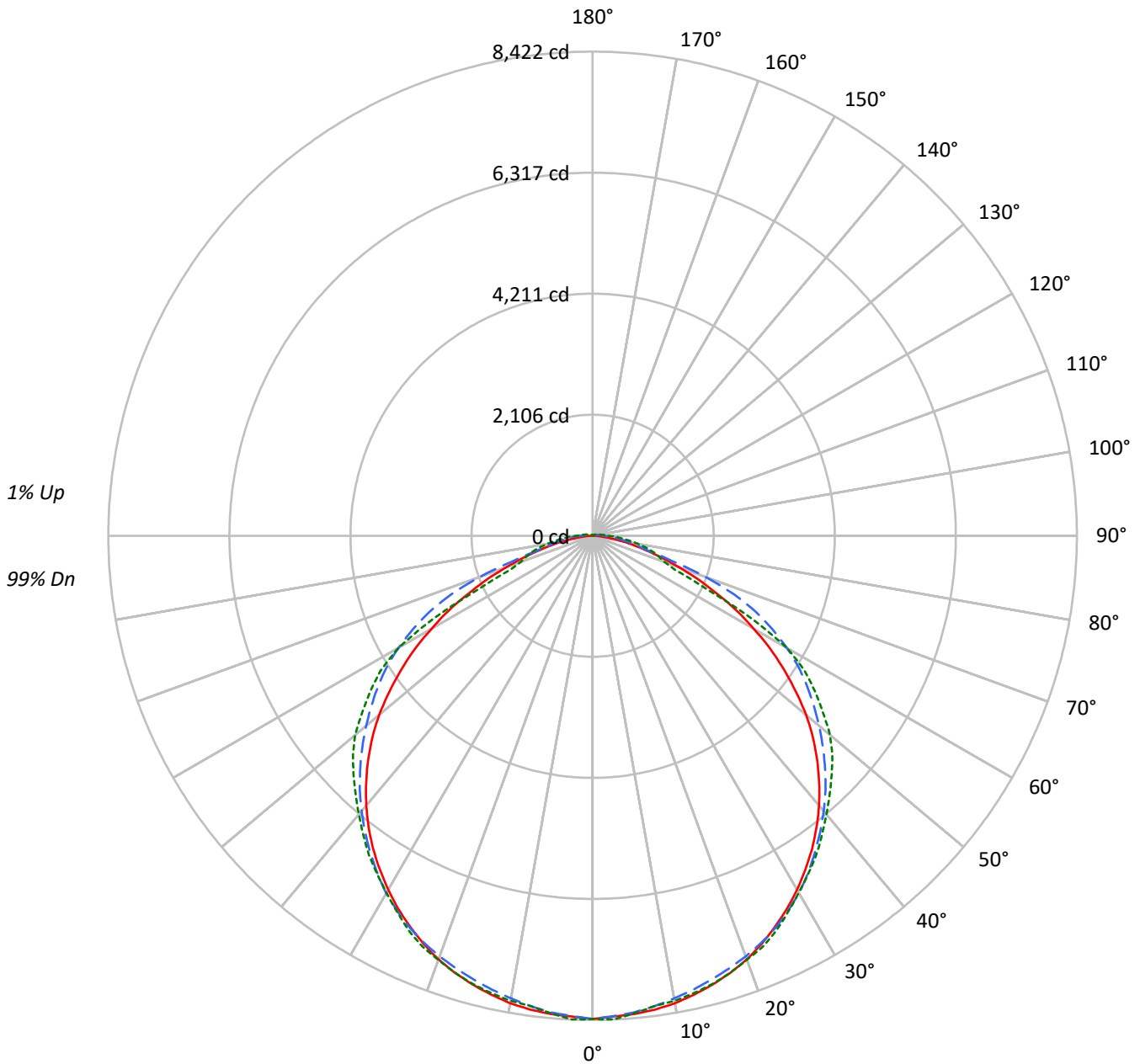
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23755.0 lumens
Efficiency: N/A
Efficacy: 172.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 138
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°	14355	14355	14355
5°	14261	14140	14167
10°	14209	13919	14001
15°	14119	13753	13898
20°	14028	13646	13766
25°	13859	13537	13634
30°	13675	13371	13366
35°	13455	13110	13213
40°	13169	12840	13009
45°	12772	12528	12910
50°	12235	12174	12793
55°	11381	11824	12298
60°	10263	11316	11351
65°	8804	10383	7178
70°	7091	8089	5189
75°	5317	4788	5244
80°	3701	3962	4972
85°	2106	3598	4600



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	792.5	3.3
10°-20°	2272.4	9.6
20°-30°	3470.7	14.6
30°-40°	4211.2	17.7
40°-50°	4413.7	18.6
50°-60°	3999.5	16.8
60°-70°	2681.5	11.3
70°-80°	1204.1	5.1
80°-90°	436.9	1.8
90°-100°	131.5	0.6
100°-110°	62.1	0.3
110°-120°	31.1	0.1
120°-130°	17.2	0.1
130°-140°	11.8	0.0
140°-150°	7.9	0.0
150°-160°	5.9	0.0
160°-170°	3.8	0.0
170°-180°	1.2	0.0
0°-30°	6535.6	27.5
0°-40°	10746.8	45.2
0°-60°	19160.0	80.7
0°-90°	23482.5	98.9
90°-120°	224.7	0.9
90°-150°	261.6	1.1
90°-180°	273.0	1.1
0°-180°	23755.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8404	8404	8404	8404	8404	
5°	8350	8379	8321	8346	8335	794
15°	8079	8047	7990	8061	8070	2281
25°	7505	7472	7525	7594	7572	3460
35°	6652	6668	6736	6808	6781	4158
45°	5521	5611	5715	5861	5879	4253
55°	4062	4258	4549	4731	4720	3626
65°	2384	2757	3130	2642	2157	2376
75°	938	1361	1001	1024	1091	1025
85°	162	310	397	480	503	197
90°	1	103	205	258	270	10
95°	1	64	141	171	176	2
105°	5	28	69	84	88	6
115°	10	15	35	45	47	9
125°	8	10	22	26	27	8
135°	11	12	13	19	21	9
145°	11	12	12	13	15	7
155°	12	13	13	13	12	6
165°	13	13	13	13	13	4
175°	13	13	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°	8404.5	8404.5	8404.5	8404.5	8404.5
2.5°	8370.5	8405.8	8362.0	8409.4	8421.6
5°	8349.9	8379.0	8320.7	8346.2	8335.3
7.5°	8312.2	8321.9	8252.6	8273.3	8251.4
10°	8256.3	8251.4	8170.0	8210.1	8215.0
12.5°	8173.6	8159.1	8086.1	8146.9	8148.1
15°	8078.9	8047.3	7990.1	8060.6	8070.4
17.5°	7969.5	7928.2	7890.5	7981.6	7967.1
20°	7841.9	7793.3	7786.0	7885.6	7849.2
22.5°	7683.9	7646.2	7663.2	7758.0	7734.9
25°	7505.3	7472.5	7524.7	7594.0	7572.1
27.5°	7316.9	7297.5	7357.0	7410.5	7367.9
30°	7110.3	7099.4	7178.4	7222.1	7168.6
32.5°	6885.5	6889.1	6964.5	7024.0	6974.2
35°	6652.2	6668.0	6736.0	6807.7	6781.0
37.5°	6395.8	6431.0	6499.1	6580.5	6552.5
40°	6124.8	6175.8	6251.1	6349.6	6324.1
42.5°	5831.9	5896.3	5993.5	6102.9	6100.5
45°	5520.8	5610.7	5715.2	5861.1	5879.3
47.5°	5197.5	5298.4	5430.9	5625.3	5653.3
50°	4846.3	4972.7	5138.0	5371.3	5388.3
52.5°	4455.0	4627.6	4846.3	5069.9	5049.3
55°	4062.5	4258.2	4548.6	4730.9	4720.0
57.5°	3671.2	3891.2	4243.6	4373.6	4372.4
60°	3233.7	3512.0	3897.2	3995.7	3898.5
62.5°	2829.1	3128.0	3527.8	3456.1	3123.1
65°	2384.3	2757.4	3130.4	2641.9	2157.0
67.5°	1989.3	2378.2	2658.9	1809.5	1549.4
70°	1592.0	2020.9	2073.2	1342.8	1324.6
72.5°	1239.5	1696.5	1430.3	1149.6	1207.9
75°	938.2	1361.1	1001.4	1024.4	1091.3
77.5°	684.2	1045.1	779.0	898.1	952.7
80°	470.3	740.1	635.6	754.7	792.3
82.5°	295.3	488.5	509.2	607.6	646.5
85°	161.6	309.9	397.4	480.0	503.1
87.5°	66.8	187.1	303.8	370.6	390.1
90°	1.2	103.3	205.4	257.6	269.8
92.5°	1.2	79.0	167.7	207.8	216.3
95°	1.2	64.4	141.0	171.3	176.2
97.5°	2.4	51.0	117.9	142.2	147.0
100°	3.6	42.5	98.4	119.1	122.7
102.5°	4.9	34.0	82.6	99.6	103.3
105°	4.9	28.0	69.3	83.9	87.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.5	17.0	41.3	52.3	54.7
115°	9.7	14.6	35.2	45.0	47.4
117.5°	9.7	12.2	30.4	37.7	40.1
120°	9.7	10.9	26.7	32.8	34.0
122.5°	9.7	9.7	23.1	29.2	30.4
125°	8.5	9.7	21.9	25.5	26.7
127.5°	9.7	9.7	19.4	23.1	24.3
130°	9.7	10.9	17.0	21.9	21.9
132.5°	10.9	12.2	15.8	20.7	20.7
135°	10.9	12.2	13.4	19.4	20.7
137.5°	12.2	12.2	12.2	18.2	19.4
140°	12.2	12.2	10.9	15.8	17.0
142.5°	10.9	12.2	10.9	14.6	15.8
145°	10.9	12.2	12.2	13.4	14.6
147.5°	12.2	12.2	12.2	12.2	13.4
150°	12.2	12.2	12.2	12.2	12.2
152.5°	12.2	12.2	12.2	12.2	12.2
155°	12.2	13.4	13.4	13.4	12.2
157.5°	12.2	13.4	13.4	13.4	13.4
160°	12.2	13.4	13.4	13.4	13.4
162.5°	13.4	13.4	13.4	13.4	13.4
165°	13.4	13.4	13.4	13.4	13.4
167.5°	13.4	14.6	13.4	13.4	13.4
170°	13.4	13.4	13.4	12.2	12.2
172.5°	13.4	13.4	13.4	12.2	12.2
175°	13.4	13.4	12.2	10.9	10.9
177.5°	14.6	13.4	12.2	10.9	9.7
180°	12.2	12.2	12.2	12.2	12.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	6.1	23.1	59.5	71.7	74.1
110°	7.3	19.4	49.8	60.8	63.2



(END OF REPORT)