

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: P829258

Luminaire Tested: **OHB-24SE-MFL-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHB-24SE-MFL-UNV-L850-CD
Description: 24000 LUMEN OHB SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

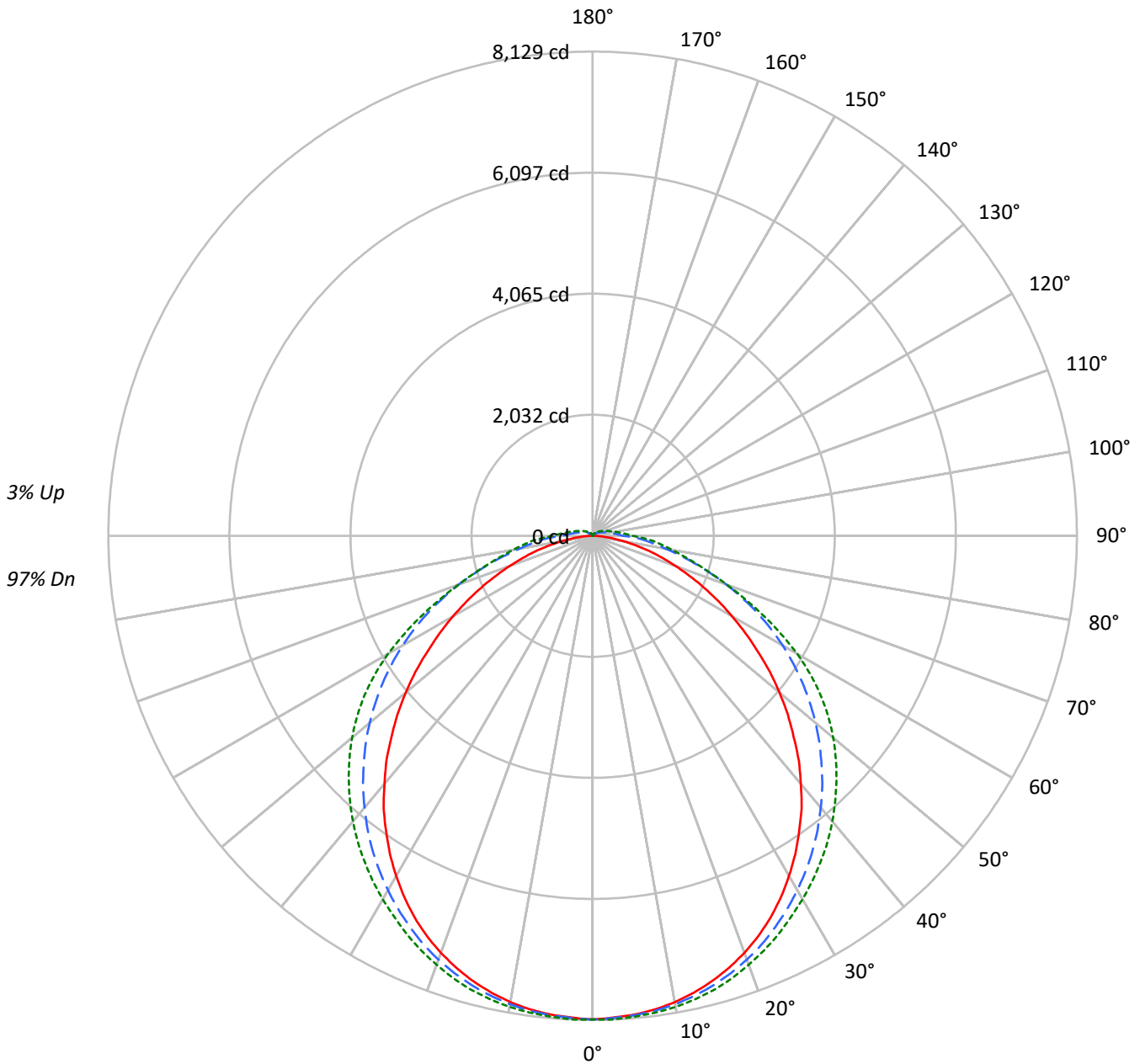
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24304.0 lumens
Efficiency: N/A
Efficacy: 165.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 1.93' x H: 0.17')
CIE Type: Direct

Input Watts (W): 146.6
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	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	80																	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	66																	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	56																	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	47																	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	41																	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	36																	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	32																	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	28																	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	25																	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	23																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27127	27127	27127
5°	26855	26789	26936
10°	26569	26473	26777
15°	26174	26112	26575
20°	25682	25687	26286
25°	25057	25177	25994
30°	24230	24629	25700
35°	23251	24050	25443
40°	22096	23390	25187
45°	20754	22674	24864
50°	19295	21944	24474
55°	17531	21064	23832
60°	15723	20035	22579
65°	13762	18742	20541
70°	11645	17119	18333
75°	9490	15238	16811
80°	6856	13701	16565
85°	3913	13500	18270



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	769.5	3.2
10°-20°	2207.5	9.1
20°-30°	3338.5	13.7
30°-40°	4007.9	16.5
40°-50°	4139.5	17.0
50°-60°	3724.3	15.3
60°-70°	2805.4	11.5
70°-80°	1694.0	7.0
80°-90°	828.5	3.4
90°-100°	348.7	1.4
100°-110°	199.1	0.8
110°-120°	116.8	0.5
120°-130°	66.1	0.3
130°-140°	34.8	0.1
140°-150°	16.9	0.1
150°-160°	6.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6315.5	26.0
0°-40°	10323.4	42.5
0°-60°	18187.3	74.8
0°-90°	23515.2	96.8
90°-120°	664.7	2.7
90°-150°	782.5	3.2
90°-180°	789.0	3.2
0°-180°	24304.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8121	8121	8121	8121	8121	
5°	8069	8091	8081	8113	8103	767
15°	7743	7781	7817	7882	7890	2183
25°	7071	7149	7250	7364	7381	3253
35°	6046	6187	6441	6636	6676	3780
45°	4772	5012	5432	5728	5790	3684
55°	3381	3730	4297	4621	4676	3031
65°	2063	2484	3041	3192	3156	2050
75°	972	1395	1761	1807	1789	1037
85°	203	535	882	1004	1022	234
90°	0	209	505	636	662	13
95°	10	141	378	481	499	8
105°	14	82	219	286	298	14
115°	16	46	135	181	189	16
125°	16	22	82	117	123	14
135°	14	18	42	72	80	11
145°	20	18	20	36	42	12
155°	20	22	20	18	20	6
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHB-24SE-MFL-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8120.7	8120.7	8120.7	8120.7	8120.7
2.5°	8096.9	8116.8	8104.8	8130.7	8128.7
5°	8069.1	8090.9	8081.0	8112.8	8102.9
7.5°	8021.4	8045.2	8043.2	8079.0	8075.0
10°	7951.8	7977.6	7985.6	8033.3	8033.3
12.5°	7856.4	7890.2	7910.1	7967.7	7969.7
15°	7743.1	7780.9	7816.7	7882.2	7890.2
17.5°	7606.0	7653.7	7703.4	7778.9	7788.8
20°	7451.0	7504.6	7572.2	7651.7	7663.6
22.5°	7272.1	7335.7	7423.1	7516.6	7530.5
25°	7071.4	7148.9	7250.2	7363.5	7381.4
27.5°	6842.8	6932.2	7069.4	7196.6	7212.5
30°	6594.4	6699.7	6870.6	7021.7	7047.5
32.5°	6332.0	6453.3	6663.9	6832.9	6868.6
35°	6045.8	6186.9	6441.3	6636.1	6675.9
37.5°	5763.6	5918.6	6206.8	6429.4	6477.1
40°	5433.7	5626.5	5956.4	6202.8	6260.5
42.5°	5123.7	5332.3	5706.0	5974.3	6029.9
45°	4771.9	5012.4	5431.7	5727.8	5789.5
47.5°	4442.0	4702.3	5167.4	5473.5	5537.0
50°	4094.2	4380.4	4885.2	5205.1	5270.7
52.5°	3746.4	4054.4	4593.0	4924.9	4986.5
55°	3380.7	3730.5	4296.9	4620.8	4676.5
57.5°	3040.8	3410.5	3992.8	4300.9	4334.6
60°	2704.9	3088.5	3682.8	3953.0	3965.0
62.5°	2377.0	2780.4	3364.8	3579.4	3563.5
65°	2063.0	2484.3	3040.8	3191.9	3156.1
67.5°	1760.9	2196.1	2708.9	2806.3	2758.6
70°	1474.7	1915.9	2386.9	2436.6	2392.9
72.5°	1222.3	1649.6	2061.0	2102.7	2070.9
75°	971.9	1395.2	1760.9	1806.6	1788.7
77.5°	737.3	1148.7	1484.6	1544.3	1548.2
80°	530.7	924.2	1244.1	1337.6	1349.5
82.5°	349.8	717.5	1043.4	1162.7	1180.5
85°	202.7	534.6	882.4	1003.7	1021.6
87.5°	87.4	385.6	709.5	818.8	840.7
90°	0.0	208.7	504.8	636.0	661.8
92.5°	6.0	172.9	433.3	552.5	574.4
95°	9.9	141.1	377.6	481.0	498.9
97.5°	11.9	119.2	327.9	419.4	437.2
100°	11.9	103.3	284.2	367.7	383.6
102.5°	11.9	91.4	248.4	322.0	335.9
105°	13.9	81.5	218.6	286.2	298.1



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CATALOG NUMBER: OHB-24SE-MFL-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	15.9	53.7	151.0	202.7	210.7
115°	15.9	45.7	135.1	180.9	188.8
117.5°	17.9	39.7	119.2	163.0	168.9
120°	17.9	33.8	105.3	145.1	153.0
122.5°	17.9	27.8	93.4	131.2	137.1
125°	15.9	21.9	81.5	117.3	123.2
127.5°	13.9	17.9	69.6	105.3	111.3
130°	13.9	15.9	59.6	93.4	99.4
132.5°	13.9	17.9	49.7	81.5	89.4
135°	13.9	17.9	41.7	71.5	79.5
137.5°	13.9	17.9	33.8	61.6	69.6
140°	15.9	17.9	27.8	51.7	59.6
142.5°	17.9	17.9	21.9	43.7	49.7
145°	19.9	17.9	19.9	35.8	41.7
147.5°	19.9	19.9	19.9	27.8	33.8
150°	19.9	21.9	19.9	21.9	27.8
152.5°	19.9	21.9	19.9	17.9	21.9
155°	19.9	21.9	19.9	17.9	19.9
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	13.9	71.5	192.8	254.4	264.3
110°	13.9	63.6	170.9	226.6	236.5



(END OF REPORT)