

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: P830120

Luminaire Tested: **OHBL-24SE-MFL-UNV-L835-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830120
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: OHBL-24SE-MFL-UNV-L835-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

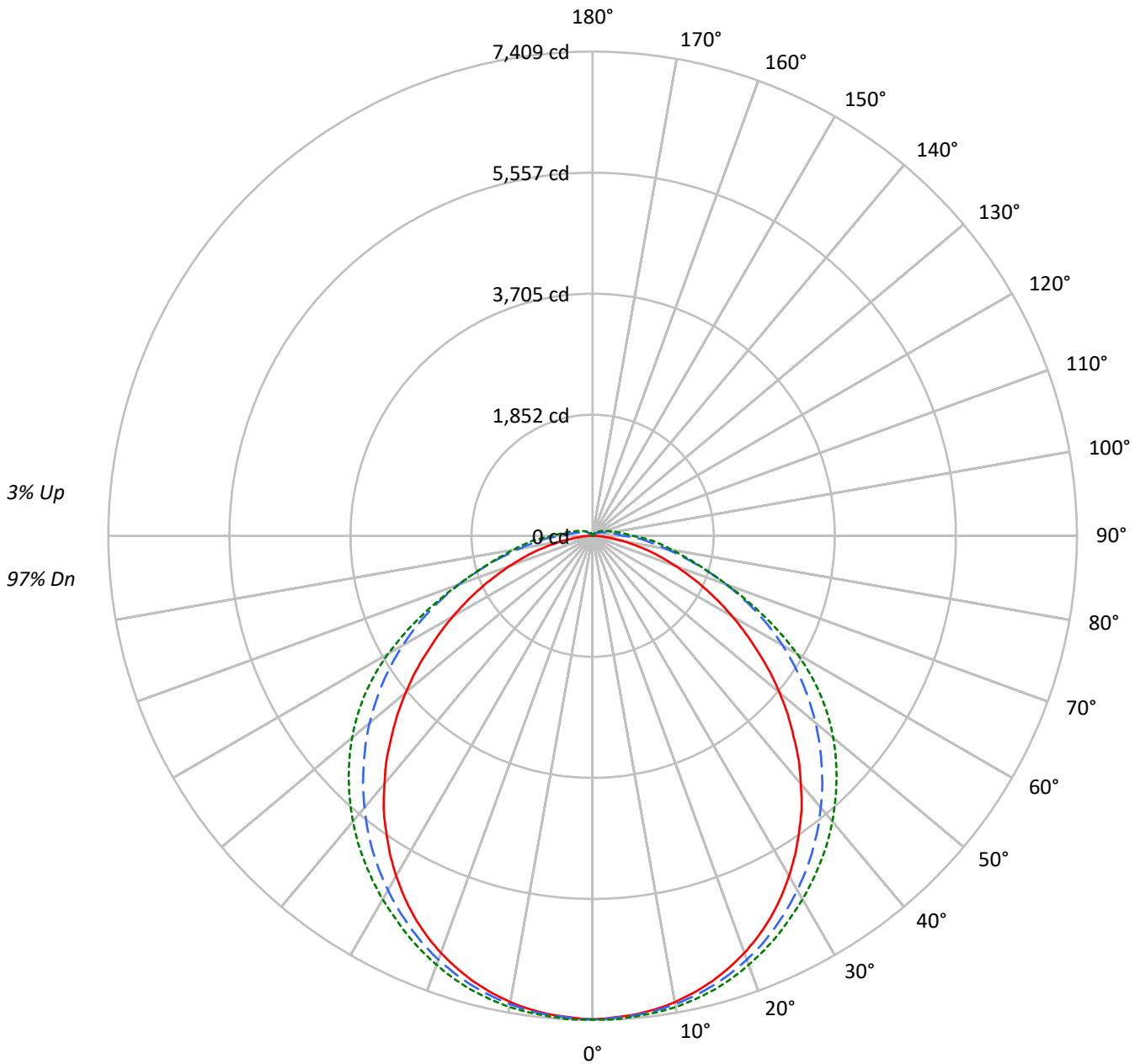
Lumens per Lamp: N/A
Luminaire Lumens: 22153.0 lumens
Efficiency: N/A
Efficacy: 160.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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	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°	12643	12643	12643
5°	12562	12517	12553
10°	12474	12401	12479
15°	12334	12264	12385
20°	12149	12096	12251
25°	11902	11889	12114
30°	11560	11665	11977
35°	11146	11427	11857
40°	10649	11152	11738
45°	10062	10853	11588
50°	9421	10551	11406
55°	8633	10181	11107
60°	7825	9747	10523
65°	6943	9193	9573
70°	5987	8489	8544
75°	5020	7674	7835
80°	3806	7069	7719
85°	2408	7281	8514



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	701.4	3.2
10°-20°	2012.2	9.1
20°-30°	3043.0	13.7
30°-40°	3653.2	16.5
40°-50°	3773.2	17.0
50°-60°	3394.7	15.3
60°-70°	2557.2	11.5
70°-80°	1544.1	7.0
80°-90°	755.2	3.4
90°-100°	317.9	1.4
100°-110°	181.5	0.8
110°-120°	106.5	0.5
120°-130°	60.2	0.3
130°-140°	31.7	0.1
140°-150°	15.4	0.1
150°-160°	5.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5756.6	26.0
0°-40°	9409.8	42.5
0°-60°	16577.6	74.8
0°-90°	21434.0	96.8
90°-120°	605.8	2.7
90°-150°	713.2	3.2
90°-180°	719.0	3.2
0°-180°	22153.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7402	7402	7402	7402	7402	
5°	7355	7375	7366	7395	7386	699
15°	7058	7092	7125	7185	7192	1990
25°	6446	6516	6609	6712	6728	2965
35°	5511	5639	5871	6049	6085	3445
45°	4350	4569	4951	5221	5277	3358
55°	3082	3400	3917	4212	4263	2763
65°	1880	2264	2772	2909	2877	1868
75°	886	1272	1605	1647	1630	945
85°	185	487	804	915	931	214
90°	0	190	460	580	603	12
95°	9	129	344	438	455	8
105°	13	74	199	261	272	13
115°	14	42	123	165	172	15
125°	14	20	74	107	112	13
135°	13	16	38	65	72	10
145°	18	16	18	33	38	11
155°	18	20	18	16	18	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7402.0	7402.0	7402.0	7402.0	7402.0
2.5°	7380.3	7398.4	7387.5	7411.1	7409.3
5°	7354.9	7374.8	7365.8	7394.8	7385.7
7.5°	7311.4	7333.2	7331.4	7364.0	7360.4
10°	7248.0	7271.6	7278.8	7322.3	7322.3
12.5°	7161.1	7191.9	7210.0	7262.5	7264.3
15°	7057.8	7092.2	7124.9	7184.6	7191.9
17.5°	6932.8	6976.3	7021.6	7090.4	7099.5
20°	6791.5	6840.4	6902.0	6974.5	6985.4
22.5°	6628.5	6686.5	6766.2	6851.3	6864.0
25°	6445.5	6516.2	6608.6	6711.8	6728.1
27.5°	6237.2	6318.7	6443.7	6559.6	6574.1
30°	6010.7	6106.8	6262.6	6400.2	6423.8
32.5°	5771.6	5882.1	6074.2	6228.1	6260.7
35°	5510.8	5639.4	5871.3	6048.8	6085.0
37.5°	5253.5	5394.8	5657.5	5860.4	5903.9
40°	4952.8	5128.5	5429.2	5653.9	5706.4
42.5°	4670.2	4860.4	5201.0	5445.5	5496.3
45°	4349.5	4568.7	4951.0	5220.9	5277.1
47.5°	4048.8	4286.1	4710.0	4989.0	5047.0
50°	3731.8	3992.7	4452.8	4744.5	4804.2
52.5°	3414.8	3695.6	4186.5	4489.0	4545.2
55°	3081.5	3400.3	3916.6	4211.9	4262.6
57.5°	2771.7	3108.6	3639.4	3920.2	3951.0
60°	2465.5	2815.2	3356.8	3603.2	3614.1
62.5°	2166.6	2534.4	3067.0	3262.6	3248.1
65°	1880.4	2264.4	2771.7	2909.4	2876.8
67.5°	1605.0	2001.8	2469.2	2557.9	2514.4
70°	1344.2	1746.3	2175.7	2221.0	2181.1
72.5°	1114.1	1503.6	1878.6	1916.6	1887.6
75°	885.9	1271.7	1605.0	1646.7	1630.4
77.5°	672.1	1047.1	1353.2	1407.6	1411.2
80°	483.7	842.4	1134.0	1219.2	1230.0
82.5°	318.8	654.0	951.1	1059.8	1076.1
85°	184.8	487.3	804.3	914.8	931.1
87.5°	79.7	351.4	646.7	746.4	766.3
90°	0.0	190.2	460.1	579.7	603.2
92.5°	5.4	157.6	394.9	503.6	523.5
95°	9.1	128.6	344.2	438.4	454.7
97.5°	10.9	108.7	298.9	382.2	398.5
100°	10.9	94.2	259.1	335.1	349.6
102.5°	10.9	83.3	226.4	293.5	306.2
105°	12.7	74.3	199.3	260.9	271.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	14.5	48.9	137.7	184.8	192.0
115°	14.5	41.7	123.2	164.9	172.1
117.5°	16.3	36.2	108.7	148.5	154.0
120°	16.3	30.8	96.0	132.2	139.5
122.5°	16.3	25.4	85.1	119.6	125.0
125°	14.5	19.9	74.3	106.9	112.3
127.5°	12.7	16.3	63.4	96.0	101.4
130°	12.7	14.5	54.3	85.1	90.6
132.5°	12.7	16.3	45.3	74.3	81.5
135°	12.7	16.3	38.0	65.2	72.5
137.5°	12.7	16.3	30.8	56.2	63.4
140°	14.5	16.3	25.4	47.1	54.3
142.5°	16.3	16.3	19.9	39.9	45.3
145°	18.1	16.3	18.1	32.6	38.0
147.5°	18.1	18.1	18.1	25.4	30.8
150°	18.1	19.9	18.1	19.9	25.4
152.5°	18.1	19.9	18.1	16.3	19.9
155°	18.1	19.9	18.1	16.3	18.1
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°	12.7	65.2	175.7	231.9	240.9
110°	12.7	58.0	155.8	206.5	215.6



(END OF REPORT)