

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: P830156

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24SE-W-UNV-L835-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

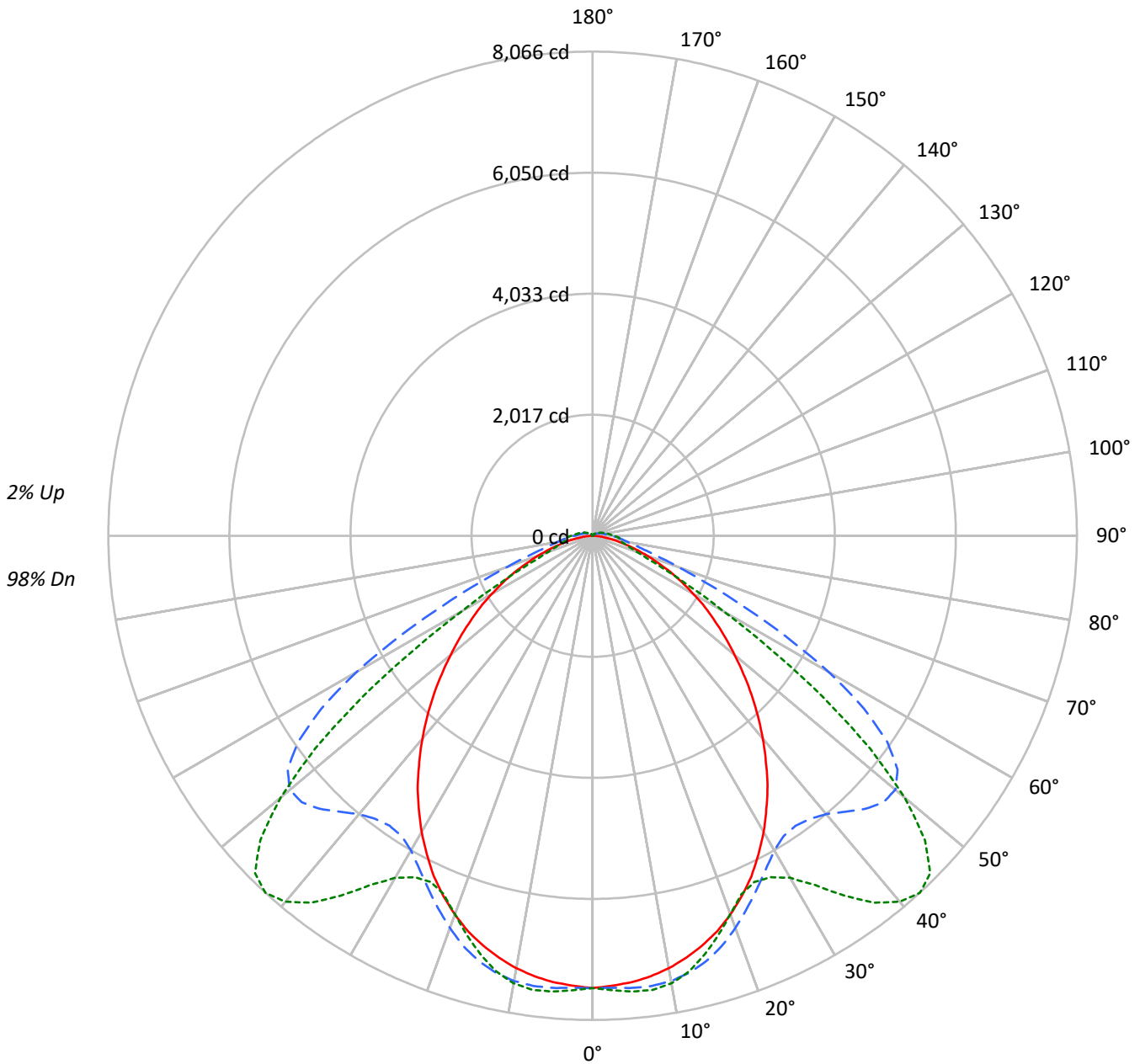
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22560.1 lumens
Efficiency: N/A
Efficacy: 163.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
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				20				20
RC	80				70				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	105	105	105	100	100	100	100	100	100	98
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	85	85	85	83
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	72	72	72	70
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	61	61	61	59
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	52	52	52	50
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	45	45	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	40	40	40	38
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	35	35	35	33
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	28	28	28	26
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	25	25	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12869	12869	12869
5°	12749	12851	12953
10°	12589	12831	12905
15°	12344	12619	12429
20°	12007	12185	11760
25°	11557	11660	11462
30°	10958	11270	12263
35°	10275	11478	14261
40°	9482	12431	16371
45°	8654	14101	17459
50°	7789	15592	16098
55°	6977	15572	12165
60°	6150	13173	7336
65°	5276	9096	4366
70°	4287	5879	3076
75°	3261	4213	2750
80°	2341	3698	2918
85°	1588	4062	4058



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	720.0	3.2
10°-20°	2038.9	9.0
20°-30°	2983.5	13.2
30°-40°	3874.8	17.2
40°-50°	4731.6	21.0
50°-60°	4166.9	18.5
60°-70°	2171.4	9.6
70°-80°	931.2	4.1
80°-90°	447.2	2.0
90°-100°	210.1	0.9
100°-110°	130.6	0.6
110°-120°	77.2	0.3
120°-130°	42.0	0.2
130°-140°	21.1	0.1
140°-150°	10.1	0.0
150°-160°	3.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5742.4	25.5
0°-40°	9617.2	42.6
0°-60°	18515.7	82.1
0°-90°	22065.4	97.8
90°-120°	417.9	1.9
90°-150°	491.1	2.2
90°-180°	495.0	2.2
0°-180°	22560.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7535	7535	7535	7535	7535	
5°	7465	7522	7562	7629	7621	708
15°	7063	7262	7331	7276	7218	1989
25°	6258	6593	6481	6359	6366	2872
35°	5080	5616	5898	6878	7318	3166
45°	3740	4706	6432	7788	7951	2884
55°	2490	4122	5990	5252	4669	2235
65°	1429	2856	2742	1525	1312	1414
75°	576	1336	881	603	572	628
85°	122	476	449	439	444	136
90°	2	172	296	338	346	8
95°	3	101	236	276	284	2
105°	6	57	153	184	187	7
115°	10	32	94	115	119	10
125°	11	16	55	72	73	10
135°	10	10	26	44	46	8
145°	13	10	11	21	24	8
155°	13	13	10	10	10	4
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°	7534.6	7534.6	7534.6	7534.6	7534.6
2.5°	7502.1	7534.6	7536.3	7581.8	7576.9
5°	7464.7	7521.6	7562.3	7628.9	7620.8
7.5°	7403.0	7492.4	7563.9	7637.0	7630.5
10°	7315.2	7437.1	7531.4	7591.5	7572.0
12.5°	7201.4	7362.3	7455.0	7468.0	7430.6
15°	7063.2	7261.5	7331.4	7276.2	7217.6
17.5°	6907.1	7139.6	7164.0	7043.7	6970.5
20°	6712.1	6977.0	6952.7	6786.9	6705.6
22.5°	6495.9	6798.2	6720.2	6546.3	6468.2
25°	6258.5	6593.4	6481.2	6359.3	6365.8
27.5°	5980.6	6360.9	6252.0	6307.3	6411.3
30°	5697.7	6117.1	6050.5	6372.3	6577.2
32.5°	5387.2	5866.8	5926.9	6562.5	6897.4
35°	5080.0	5616.4	5897.7	6877.9	7318.4
37.5°	4740.2	5362.8	5944.8	7242.0	7703.7
40°	4410.2	5115.7	6052.1	7568.8	7958.9
42.5°	4073.7	4894.7	6232.5	7762.2	8066.2
45°	3740.5	4706.1	6432.5	7788.2	7950.8
47.5°	3407.2	4546.8	6570.7	7581.8	7507.0
50°	3085.4	4405.4	6580.4	7086.0	6780.4
52.5°	2784.6	4275.3	6401.6	6295.9	5821.3
55°	2490.4	4122.5	5990.3	5252.3	4668.7
57.5°	2222.2	3911.2	5356.3	4130.6	3493.4
60°	1937.7	3625.1	4537.0	3022.0	2519.7
62.5°	1676.0	3269.1	3618.6	2103.5	1810.9
65°	1428.9	2856.2	2742.4	1524.8	1311.9
67.5°	1167.2	2428.6	2023.9	1111.9	975.4
70°	962.4	2032.0	1506.9	864.8	785.2
72.5°	752.7	1654.9	1126.5	702.3	658.4
75°	575.5	1336.2	881.1	603.1	572.2
77.5°	424.3	1056.6	708.8	533.2	503.9
80°	297.5	832.3	593.3	476.3	464.9
82.5°	199.9	643.7	505.6	453.5	455.2
85°	121.9	476.3	448.7	438.9	443.8
87.5°	58.5	338.1	385.3	399.9	404.8
90°	1.6	172.3	295.9	338.1	346.3
92.5°	0.0	131.7	260.1	302.4	310.5
95°	3.3	100.8	235.7	276.4	284.5
97.5°	3.3	82.9	211.3	253.6	258.5
100°	4.9	71.5	188.6	229.2	234.1
102.5°	4.9	63.4	169.1	204.8	208.1
105°	6.5	56.9	152.8	183.7	186.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.8	39.0	107.3	130.0	133.3
115°	9.8	32.5	94.3	115.4	118.7
117.5°	11.4	29.3	82.9	102.4	104.0
120°	11.4	24.4	71.5	91.0	92.7
122.5°	11.4	19.5	63.4	81.3	82.9
125°	11.4	16.3	55.3	71.5	73.2
127.5°	9.8	11.4	47.1	63.4	65.0
130°	9.8	9.8	39.0	55.3	58.5
132.5°	9.8	9.8	32.5	48.8	52.0
135°	9.8	9.8	26.0	43.9	45.5
137.5°	9.8	9.8	21.1	37.4	40.6
140°	9.8	9.8	16.3	32.5	34.1
142.5°	11.4	9.8	14.6	27.6	29.3
145°	13.0	9.8	11.4	21.1	24.4
147.5°	13.0	11.4	11.4	17.9	19.5
150°	13.0	13.0	9.8	13.0	16.3
152.5°	13.0	13.0	9.8	9.8	13.0
155°	13.0	13.0	9.8	9.8	9.8
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°	8.1	50.4	136.5	164.2	<i>167.4</i>
110°	8.1	43.9	120.3	146.3	<i>149.6</i>



(END OF REPORT)