

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: P830587

Luminaire Tested: **OHBL-48SE-W-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830587
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-48SE-W-UNV-L830-CD
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

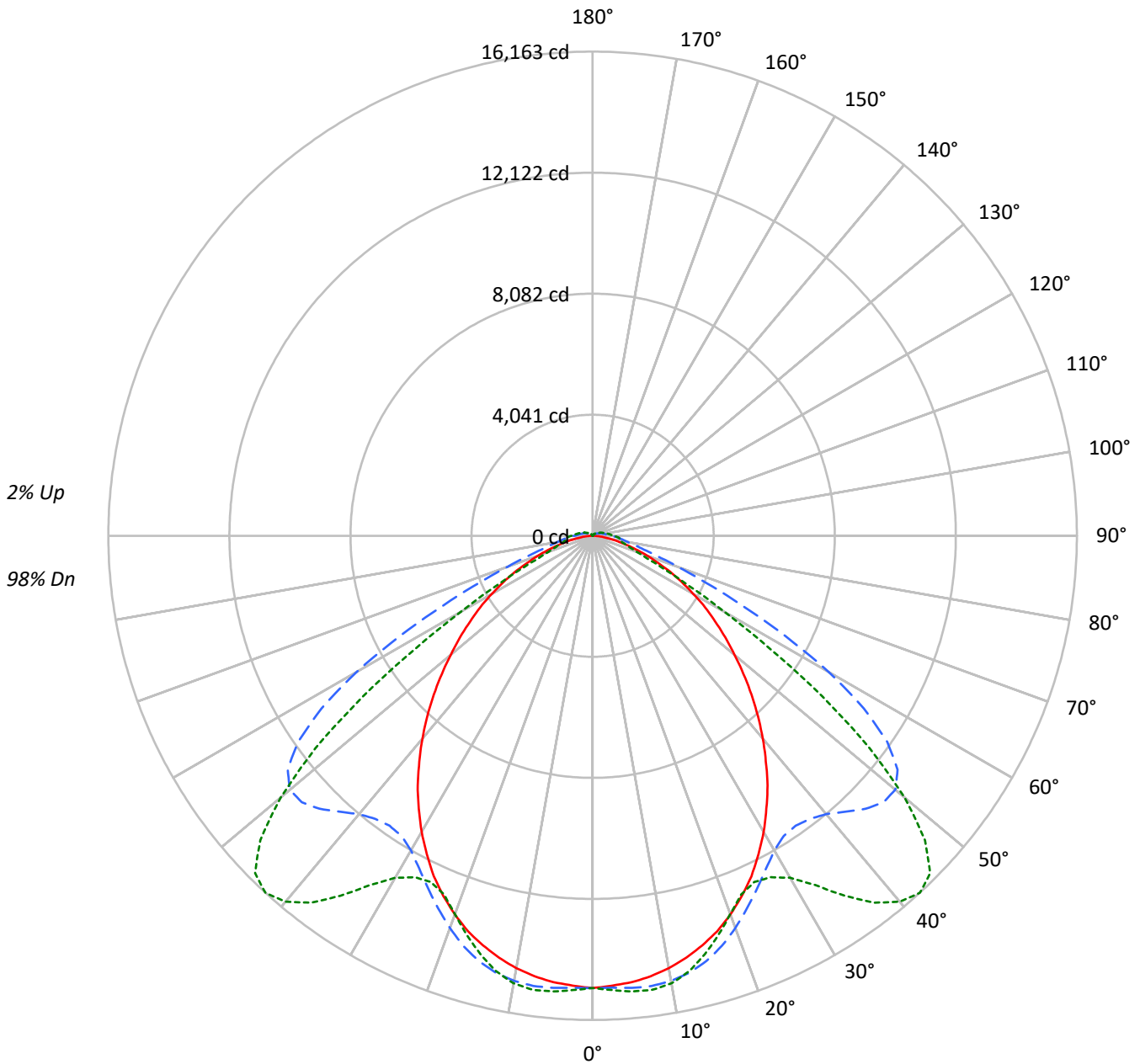
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45205.0 lumens
Efficiency: N/A
Efficacy: 156.5 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): 288.8
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	105	105	105	100	100	100					98															
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85					83															
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72					70															
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61					59															
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52					50															
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45					43															
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40					38															
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35					33															
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31					29															
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28					26															
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25					24															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25787	25787	25787
5°	25546	25750	25954
10°	25226	25711	25858
15°	24734	25286	24906
20°	24060	24416	23564
25°	23158	23364	22967
30°	21958	22582	24573
35°	20589	22999	28575
40°	19001	24909	32804
45°	17340	28254	34983
50°	15608	31242	32256
55°	13980	31202	24375
60°	12322	26397	14700
65°	10572	18226	8747
70°	8589	11781	6163
75°	6534	8441	5510
80°	4690	7411	5847
85°	3183	8139	8131



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1442.8	3.2
10°-20°	4085.4	9.0
20°-30°	5978.3	13.2
30°-40°	7764.1	17.2
40°-50°	9481.0	21.0
50°-60°	8349.5	18.5
60°-70°	4351.0	9.6
70°-80°	1865.8	4.1
80°-90°	896.1	2.0
90°-100°	421.0	0.9
100°-110°	261.7	0.6
110°-120°	154.7	0.3
120°-130°	84.1	0.2
130°-140°	42.2	0.1
140°-150°	20.3	0.0
150°-160°	7.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	11506.5	25.5
0°-40°	19270.7	42.6
0°-60°	37101.1	82.1
0°-90°	44214.0	97.8
90°-120°	837.3	1.9
90°-150°	983.9	2.2
90°-180°	991.0	2.2
0°-180°	45205.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15098	15098	15098	15098	15098	
5°	14958	15072	15153	15287	15270	###
15°	14153	14550	14690	14580	14462	3985
25°	12541	13212	12987	12743	12756	5755
35°	10179	11254	11818	13782	14664	6344
45°	7495	9430	12889	15606	15932	5779
55°	4990	8260	12003	10524	9355	4479
65°	2863	5723	5495	3055	2629	2833
75°	1153	2678	1766	1208	1147	1257
85°	244	954	899	880	889	272
90°	3	345	593	678	694	17
95°	6	202	472	554	570	5
105°	13	114	306	368	375	14
115°	20	65	189	231	238	20
125°	23	33	111	143	147	19
135°	20	20	52	88	91	15
145°	26	20	23	42	49	15
155°	26	26	20	20	20	8
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: OHBL-48SE-W-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15097.6	15097.6	15097.6	15097.6	15097.6
2.5°	15032.5	15097.6	15100.9	15192.1	15182.3
5°	14957.6	15071.6	15153.0	15286.6	15270.3
7.5°	14833.8	15013.0	15156.3	15302.9	15289.8
10°	14657.9	14902.2	15091.1	15211.7	15172.6
12.5°	14429.9	14752.4	14938.0	14964.1	14889.2
15°	14153.0	14550.4	14690.5	14579.7	14462.5
17.5°	13840.3	14306.1	14355.0	14113.9	13967.4
20°	13449.4	13980.4	13931.5	13599.3	13436.4
22.5°	13016.2	13622.1	13465.7	13117.2	12960.8
25°	12540.7	13211.7	12986.9	12742.6	12755.6
27.5°	11983.7	12745.9	12527.6	12638.4	12846.8
30°	11416.9	12257.3	12123.7	12768.7	13179.1
32.5°	10794.7	11755.6	11876.2	13149.8	13820.8
35°	10179.1	11254.0	11817.5	13781.7	14664.4
37.5°	9498.3	10745.9	11912.0	14511.3	15436.4
40°	8837.1	10250.8	12127.0	15166.0	15947.8
42.5°	8162.8	9807.8	12488.5	15553.7	16162.8
45°	7495.1	9429.9	12889.2	15605.8	15931.5
47.5°	6827.3	9110.7	13166.1	15192.1	15042.3
50°	6182.4	8827.3	13185.6	14198.6	13586.3
52.5°	5579.8	8566.7	12827.3	12615.6	11664.4
55°	4990.2	8260.5	12003.2	10524.4	9355.0
57.5°	4452.7	7837.1	10732.8	8276.8	7000.0
60°	3882.7	7263.8	9091.2	6055.3	5048.8
62.5°	3358.3	6550.5	7250.8	4215.0	3628.6
65°	2863.2	5723.1	5495.1	3055.4	2628.7
67.5°	2338.8	4866.4	4055.4	2228.0	1954.4
70°	1928.3	4071.6	3019.5	1732.9	1573.3
72.5°	1508.1	3315.9	2257.3	1407.2	1319.2
75°	1153.1	2677.5	1765.5	1208.5	1146.6
77.5°	850.2	2117.3	1420.2	1068.4	1009.8
80°	596.1	1667.7	1188.9	954.4	931.6
82.5°	400.6	1289.9	1013.0	908.8	912.0
85°	244.3	954.4	899.0	879.5	889.2
87.5°	117.3	677.5	772.0	801.3	811.1
90°	3.3	345.3	592.8	677.5	693.8
92.5°	0.0	263.8	521.2	605.9	622.1
95°	6.5	202.0	472.3	553.7	570.0
97.5°	6.5	166.1	423.5	508.1	517.9
100°	9.8	143.3	377.8	459.3	469.1
102.5°	9.8	127.0	338.8	410.4	416.9
105°	13.0	114.0	306.2	368.1	374.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	19.5	78.2	215.0	260.6	267.1
115°	19.5	65.1	188.9	231.3	237.8
117.5°	22.8	58.6	166.1	205.2	208.5
120°	22.8	48.9	143.3	182.4	185.7
122.5°	22.8	39.1	127.0	162.9	166.1
125°	22.8	32.6	110.7	143.3	146.6
127.5°	19.5	22.8	94.5	127.0	130.3
130°	19.5	19.5	78.2	110.7	117.3
132.5°	19.5	19.5	65.1	97.7	104.2
135°	19.5	19.5	52.1	87.9	91.2
137.5°	19.5	19.5	42.3	74.9	81.4
140°	19.5	19.5	32.6	65.1	68.4
142.5°	22.8	19.5	29.3	55.4	58.6
145°	26.1	19.5	22.8	42.3	48.9
147.5°	26.1	22.8	22.8	35.8	39.1
150°	26.1	26.1	19.5	26.1	32.6
152.5°	26.1	26.1	19.5	19.5	26.1
155°	26.1	26.1	19.5	19.5	19.5
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°	16.3	101.0	273.6	329.0	335.5
110°	16.3	87.9	241.0	293.2	299.7



(END OF REPORT)