

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: P830592

Luminaire Tested: **OHBL-48SE-W-UNV-L935-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830592
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-L935-CD
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

Summary

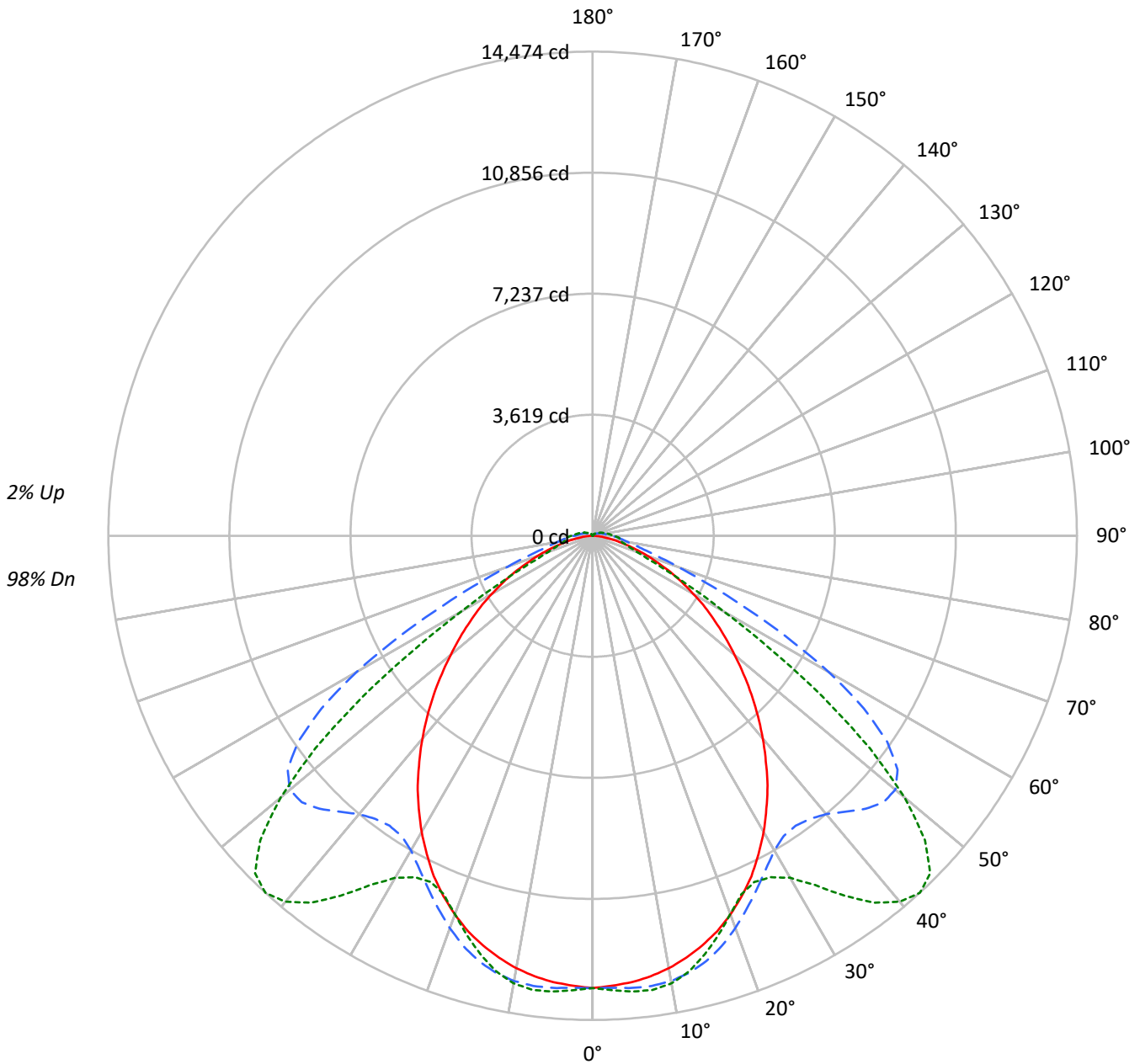
Lumens per Lamp: N/A
Luminaire Lumens: 40483.0 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P830592

CATALOG NUMBER: OHBL-48SE-W-UNV-L935-CD

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°	23093	23093	23093
5°	22878	23061	23243
10°	22591	23025	23157
15°	22150	22645	22304
20°	21546	21866	21103
25°	20739	20924	20568
30°	19664	20223	22006
35°	18438	20597	25590
40°	17016	22307	29378
45°	15528	25303	31329
50°	13977	27979	28887
55°	12519	27943	21829
60°	11035	23639	13164
65°	9468	16322	7834
70°	7692	10550	5519
75°	5852	7559	4934
80°	4200	6637	5236
85°	2851	7289	7282



TEST NUMBER: P830592

CATALOG NUMBER: OHBL-48SE-W-UNV-L935-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1292.0	3.2
10°-20°	3658.7	9.0
20°-30°	5353.9	13.2
30°-40°	6953.1	17.2
40°-50°	8490.6	21.0
50°-60°	7477.3	18.5
60°-70°	3896.5	9.6
70°-80°	1670.9	4.1
80°-90°	802.5	2.0
90°-100°	377.0	0.9
100°-110°	234.3	0.6
110°-120°	138.6	0.3
120°-130°	75.3	0.2
130°-140°	37.8	0.1
140°-150°	18.2	0.0
150°-160°	6.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	10304.6	25.5
0°-40°	17257.7	42.6
0°-60°	33225.6	82.1
0°-90°	39595.5	97.8
90°-120°	749.9	1.9
90°-150°	881.2	2.2
90°-180°	888.0	2.2
0°-180°	40483.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13521	13521	13521	13521	13521	
5°	13395	13497	13570	13690	13675	###
15°	12675	13030	13156	13057	12952	3569
25°	11231	11832	11630	11412	11423	5154
35°	9116	10078	10583	12342	13133	5682
45°	6712	8445	11543	13976	14267	5176
55°	4469	7398	10749	9425	8378	4011
65°	2564	5125	4921	2736	2354	2537
75°	1033	2398	1581	1082	1027	1126
85°	219	855	805	788	796	244
90°	3	309	531	607	621	15
95°	6	181	423	496	510	4
105°	12	102	274	330	336	12
115°	18	58	169	207	213	18
125°	20	29	99	128	131	17
135°	18	18	47	79	82	14
145°	23	18	20	38	44	14
155°	23	23	18	18	18	7
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°	13520.6	13520.6	13520.6	13520.6	13520.6
2.5°	13462.2	13520.6	13523.5	13605.2	13596.4
5°	13395.1	13497.2	13570.2	13689.8	13675.2
7.5°	13284.3	13444.7	13573.1	13704.4	13692.7
10°	13126.8	13345.6	13514.7	13622.7	13587.7
12.5°	12922.6	13211.4	13377.6	13401.0	13333.9
15°	12674.6	13030.5	13156.0	13056.8	12951.8
17.5°	12394.6	12811.7	12855.5	12639.6	12508.4
20°	12044.5	12520.0	12476.3	12178.7	12032.9
22.5°	11656.6	12199.2	12059.1	11747.0	11607.0
25°	11230.7	11831.6	11630.3	11411.5	11423.2
27.5°	10731.9	11414.5	11219.0	11318.2	11504.9
30°	10224.3	10976.9	10857.3	11434.9	11802.4
32.5°	9667.1	10527.7	10635.6	11776.2	12377.1
35°	9115.8	10078.4	10583.1	12342.1	13132.6
37.5°	8506.2	9623.4	10667.7	12995.5	13824.0
40°	7914.0	9180.0	10860.2	13581.8	14281.9
42.5°	7310.2	8783.3	11184.0	13929.0	14474.5
45°	6712.2	8444.9	11542.8	13975.6	14267.4
47.5°	6114.2	8159.0	11790.8	13605.2	13471.0
50°	5536.6	7905.2	11808.3	12715.5	12167.1
52.5°	4996.9	7671.9	11487.4	11297.8	10446.0
55°	4468.9	7397.7	10749.4	9425.0	8377.8
57.5°	3987.6	7018.5	9611.7	7412.3	6268.8
60°	3477.1	6505.0	8141.5	5422.8	4521.4
62.5°	3007.5	5866.2	6493.4	3774.7	3249.6
65°	2564.1	5125.3	4921.1	2736.2	2354.1
67.5°	2094.5	4358.1	3631.7	1995.3	1750.2
70°	1726.9	3646.3	2704.1	1551.9	1408.9
72.5°	1350.6	2969.6	2021.5	1260.2	1181.4
75°	1032.6	2397.8	1581.0	1082.2	1026.8
77.5°	761.4	1896.1	1271.8	956.8	904.3
80°	533.8	1493.5	1064.7	854.7	834.3
82.5°	358.8	1155.2	907.2	813.9	816.8
85°	218.8	854.7	805.1	787.6	796.4
87.5°	105.0	606.7	691.3	717.6	726.3
90°	2.9	309.2	530.9	606.7	621.3
92.5°	0.0	236.3	466.7	542.6	557.2
95°	5.8	180.9	423.0	495.9	510.5
97.5°	5.8	148.8	379.2	455.1	463.8
100°	8.8	128.4	338.4	411.3	420.1
102.5°	8.8	113.8	303.4	367.5	373.4
105°	11.7	102.1	274.2	329.6	335.5



TEST NUMBER: P830592

CATALOG NUMBER: OHBL-48SE-W-UNV-L935-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	17.5	70.0	192.5	233.4	239.2
115°	17.5	58.3	169.2	207.1	212.9
117.5°	20.4	52.5	148.8	183.8	186.7
120°	20.4	43.8	128.4	163.4	166.3
122.5°	20.4	35.0	113.8	145.9	148.8
125°	20.4	29.2	99.2	128.4	131.3
127.5°	17.5	20.4	84.6	113.8	116.7
130°	17.5	17.5	70.0	99.2	105.0
132.5°	17.5	17.5	58.3	87.5	93.3
135°	17.5	17.5	46.7	78.8	81.7
137.5°	17.5	17.5	37.9	67.1	72.9
140°	17.5	17.5	29.2	58.3	61.3
142.5°	20.4	17.5	26.3	49.6	52.5
145°	23.3	17.5	20.4	37.9	43.8
147.5°	23.3	20.4	20.4	32.1	35.0
150°	23.3	23.3	17.5	23.3	29.2
152.5°	23.3	23.3	17.5	17.5	23.3
155°	23.3	23.3	17.5	17.5	17.5
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°	14.6	90.4	245.0	294.6	300.5
110°	14.6	78.8	215.9	262.5	268.4



(END OF REPORT)