

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: P830538

Luminaire Tested: **OHBL-48SE-MCL-UNV-L750-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-48SE-MCL-UNV-L750-CD
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 5000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

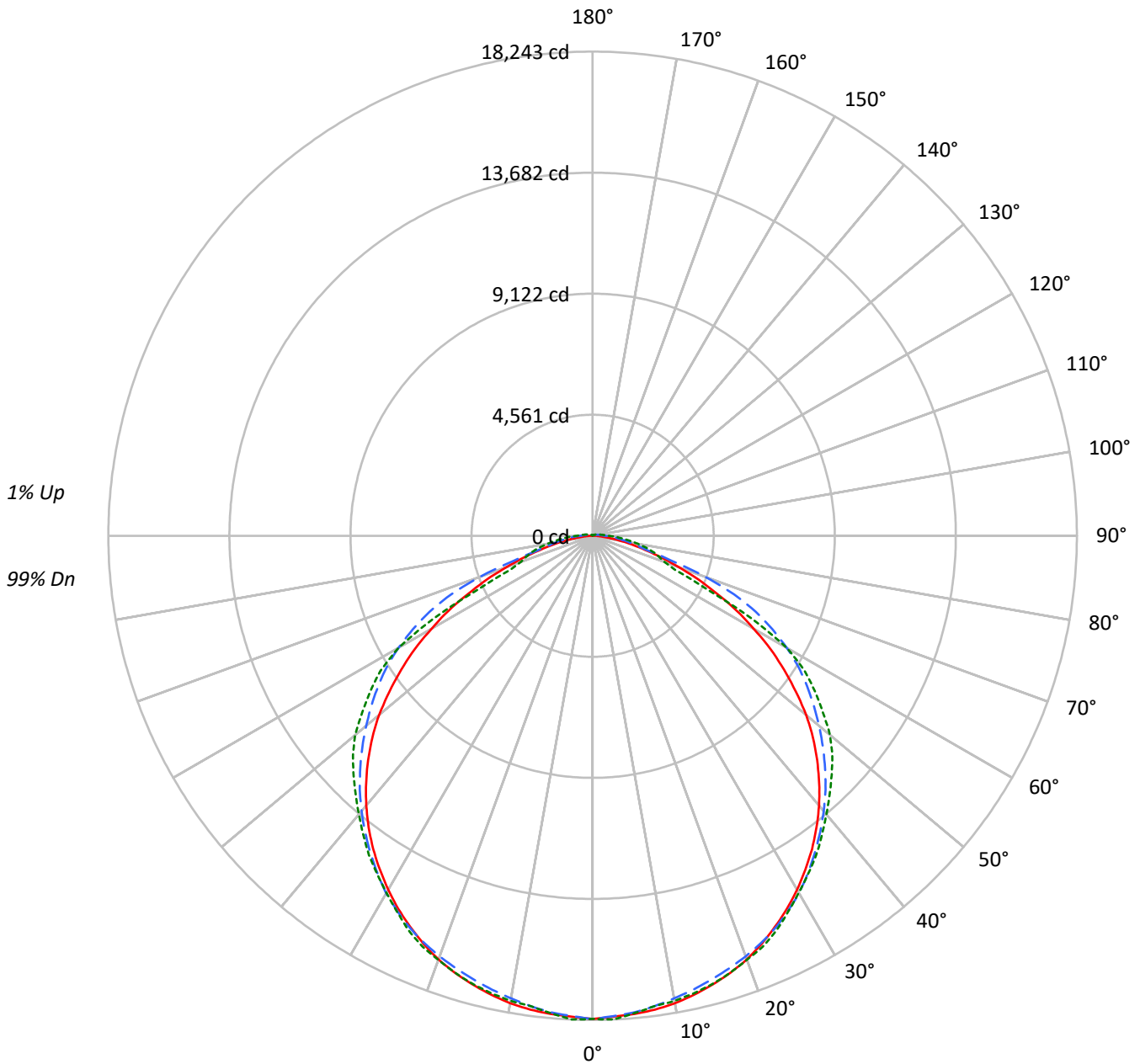
Lumens per Lamp: N/A
Luminaire Lumens: 51458.0 lumens
Efficiency: N/A
Efficacy: 178.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31095	31095	31095
5°	30892	30630	30688
10°	30779	30152	30328
15°	30584	29792	30106
20°	30388	29559	29819
25°	30022	29325	29534
30°	29623	28964	28954
35°	29146	28398	28623
40°	28526	27814	28179
45°	27667	27139	27965
50°	26503	26371	27712
55°	24653	25613	26641
60°	22231	24512	24588
65°	19070	22491	15549
70°	15361	17521	11240
75°	11516	10370	11360
80°	8017	8582	10771
85°	4562	7793	9965



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1716.6	3.3
10°-20°	4922.5	9.6
20°-30°	7518.3	14.6
30°-40°	9122.2	17.7
40°-50°	9560.9	18.6
50°-60°	8663.7	16.8
60°-70°	5808.6	11.3
70°-80°	2608.3	5.1
80°-90°	946.5	1.8
90°-100°	284.9	0.6
100°-110°	134.4	0.3
110°-120°	67.4	0.1
120°-130°	37.2	0.1
130°-140°	25.6	0.0
140°-150°	17.2	0.0
150°-160°	12.8	0.0
160°-170°	8.2	0.0
170°-180°	2.6	0.0
0°-30°	14157.4	27.5
0°-40°	23279.7	45.2
0°-60°	41504.3	80.7
0°-90°	50867.8	98.9
90°-120°	486.7	0.9
90°-150°	566.6	1.1
90°-180°	590.0	1.1
0°-180°	51458.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18206	18206	18206	18206	18206	
5°	18087	18151	18024	18080	18056	###
15°	17500	17432	17308	17461	17482	4941
25°	16258	16187	16300	16450	16403	7494
35°	14410	14444	14592	14747	14689	9007
45°	11959	12154	12380	12696	12736	9213
55°	8800	9224	9853	10248	10224	7855
65°	5165	5973	6781	5723	4673	5146
75°	2032	2948	2169	2219	2364	2221
85°	350	671	861	1040	1090	427
90°	3	224	445	558	584	21
95°	3	140	305	371	382	4
105°	10	60	150	182	190	12
115°	21	32	76	97	103	20
125°	18	21	47	55	58	18
135°	24	26	29	42	45	19
145°	24	26	26	29	32	16
155°	26	29	29	29	26	12
165°	29	29	29	29	29	8
175°	29	29	26	24	24	3
180°	26	26	26	26	26	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18205.9	18205.9	18205.9	18205.9	18205.9
2.5°	18132.2	18208.5	18113.7	18216.4	18242.7
5°	18087.4	18150.6	18024.2	18079.5	18055.8
7.5°	18005.8	18026.9	17876.8	17921.6	17874.2
10°	17884.7	17874.2	17697.8	17784.7	17795.2
12.5°	17705.7	17674.1	17516.2	17647.8	17650.4
15°	17500.4	17431.9	17308.2	17460.9	17482.0
17.5°	17263.5	17174.0	17092.4	17289.8	17258.2
20°	16987.1	16881.8	16866.0	17081.8	17002.9
22.5°	16644.9	16563.2	16600.1	16805.4	16755.4
25°	16257.9	16186.8	16300.0	16450.1	16402.7
27.5°	15849.9	15807.7	15936.7	16052.6	15960.4
30°	15402.3	15378.7	15549.8	15644.5	15528.7
32.5°	14915.3	14923.2	15086.5	15215.4	15107.5
35°	14409.9	14444.1	14591.6	14746.9	14689.0
37.5°	13854.5	13930.8	14078.2	14254.6	14194.1
40°	13267.4	13378.0	13541.2	13754.4	13699.2
42.5°	12633.0	12772.5	12983.1	13220.1	13214.8
45°	11959.1	12153.9	12380.3	12696.2	12735.7
47.5°	11258.9	11477.4	11764.3	12185.5	12246.1
50°	10498.1	10771.9	11129.9	11635.3	11672.2
52.5°	9650.5	10024.3	10498.1	10982.5	10937.7
55°	8800.2	9224.0	9853.2	10248.0	10224.4
57.5°	7952.6	8429.0	9192.4	9474.1	9471.5
60°	7004.9	7607.7	8442.2	8655.4	8444.8
62.5°	6128.3	6775.9	7641.9	7486.6	6765.3
65°	5164.8	5973.0	6781.1	5722.9	4672.6
67.5°	4309.3	5151.7	5759.8	3919.7	3356.3
70°	3448.5	4377.7	4490.9	2908.8	2869.3
72.5°	2685.1	3674.9	3098.4	2490.3	2616.6
75°	2032.2	2948.3	2169.1	2219.1	2363.9
77.5°	1482.1	2263.9	1687.4	1945.4	2063.8
80°	1018.8	1603.1	1376.8	1634.7	1716.3
82.5°	639.7	1058.2	1103.0	1316.2	1400.5
85°	350.1	671.3	860.8	1039.8	1089.8
87.5°	144.8	405.4	658.1	802.9	845.0
90°	2.6	223.8	444.9	558.1	584.4
92.5°	2.6	171.1	363.3	450.1	468.6
95°	2.6	139.5	305.4	371.2	381.7
97.5°	5.3	110.6	255.3	308.0	318.5
100°	7.9	92.1	213.2	258.0	265.9
102.5°	10.5	73.7	179.0	215.9	223.8
105°	10.5	60.5	150.0	181.6	189.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	18.4	36.9	89.5	113.2	118.5
115°	21.1	31.6	76.3	97.4	102.7
117.5°	21.1	26.3	65.8	81.6	86.9
120°	21.1	23.7	57.9	71.1	73.7
122.5°	21.1	21.1	50.0	63.2	65.8
125°	18.4	21.1	47.4	55.3	57.9
127.5°	21.1	21.1	42.1	50.0	52.6
130°	21.1	23.7	36.9	47.4	47.4
132.5°	23.7	26.3	34.2	44.8	44.8
135°	23.7	26.3	29.0	42.1	44.8
137.5°	26.3	26.3	26.3	39.5	42.1
140°	26.3	26.3	23.7	34.2	36.9
142.5°	23.7	26.3	23.7	31.6	34.2
145°	23.7	26.3	26.3	29.0	31.6
147.5°	26.3	26.3	26.3	26.3	29.0
150°	26.3	26.3	26.3	26.3	26.3
152.5°	26.3	26.3	26.3	26.3	26.3
155°	26.3	29.0	29.0	29.0	26.3
157.5°	26.3	29.0	29.0	29.0	29.0
160°	26.3	29.0	29.0	29.0	29.0
162.5°	29.0	29.0	29.0	29.0	29.0
165°	29.0	29.0	29.0	29.0	29.0
167.5°	29.0	31.6	29.0	29.0	29.0
170°	29.0	29.0	29.0	26.3	26.3
172.5°	29.0	29.0	29.0	26.3	26.3
175°	29.0	29.0	26.3	23.7	23.7
177.5°	31.6	29.0	26.3	23.7	21.1
180°	26.3	26.3	26.3	26.3	26.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	13.2	50.0	129.0	155.3	160.6
110°	15.8	42.1	107.9	131.6	136.9



(END OF REPORT)