

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: P830542

Luminaire Tested: **OHBL-48SE-MCL-UNV-L850-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830542  
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-L850-CD  
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

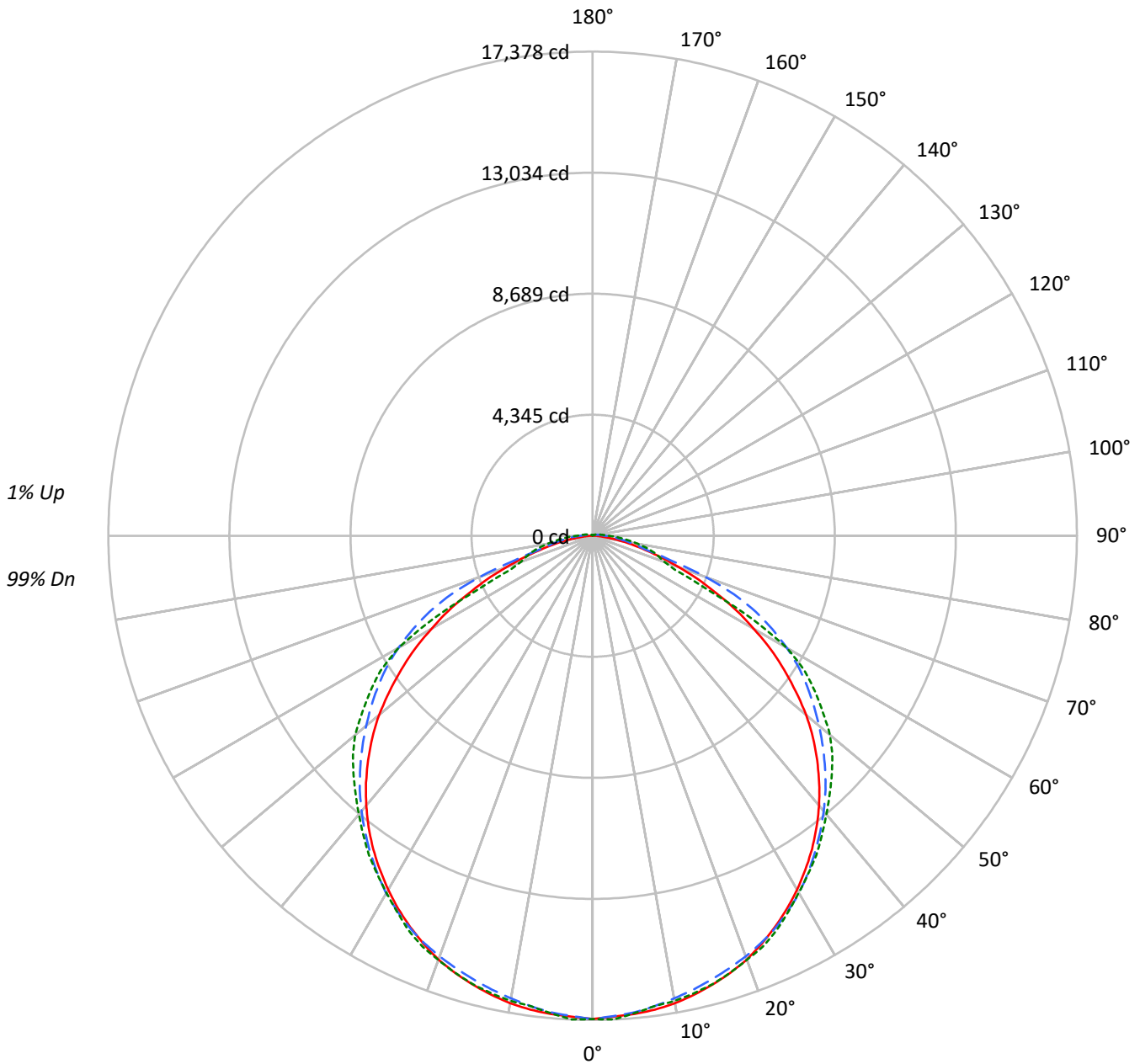
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49020.0 lumens  
Efficiency: N/A  
Efficacy: 169.7 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<sub>in</sub>): 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°	29622	29622	29622
5°	29428	29179	29235
10°	29321	28724	28891
15°	29135	28380	28679
20°	28948	28159	28406
25°	28599	27935	28135
30°	28219	27591	27582
35°	27765	27053	27267
40°	27175	26496	26844
45°	26356	25853	26641
50°	25247	25122	26399
55°	23485	24400	25378
60°	21178	23351	23423
65°	18167	21425	14812
70°	14633	16692	10708
75°	10971	9879	10821
80°	7636	8175	10261
85°	4346	7423	9493



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1635.3	3.3
10°-20°	4689.3	9.6
20°-30°	7162.0	14.6
30°-40°	8690.0	17.7
40°-50°	9108.0	18.6
50°-60°	8253.2	16.8
60°-70°	5533.4	11.3
70°-80°	2484.8	5.1
80°-90°	901.7	1.8
90°-100°	271.4	0.6
100°-110°	128.1	0.3
110°-120°	64.2	0.1
120°-130°	35.4	0.1
130°-140°	24.3	0.0
140°-150°	16.4	0.0
150°-160°	12.2	0.0
160°-170°	7.8	0.0
170°-180°	2.5	0.0
0°-30°	13486.7	27.5
0°-40°	22176.7	45.2
0°-60°	39537.9	80.7
0°-90°	48457.8	98.9
90°-120°	463.6	0.9
90°-150°	539.8	1.1
90°-180°	562.0	1.1
0°-180°	49020.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17343	17343	17343	17343	17343	
5°	17230	17291	17170	17223	17200	###
15°	16671	16606	16488	16634	16654	4707
25°	15488	15420	15528	15671	15626	7139
35°	13727	13760	13900	14048	13993	8580
45°	11392	11578	11794	12095	12132	8776
55°	8383	8787	9386	9762	9740	7483
65°	4920	5690	6460	5452	4451	4902
75°	1936	2809	2066	2114	2252	2116
85°	334	640	820	990	1038	407
90°	2	213	424	532	557	20
95°	2	133	291	354	364	3
105°	10	58	143	173	181	12
115°	20	30	73	93	98	19
125°	18	20	45	53	55	17
135°	23	25	28	40	43	18
145°	23	25	25	28	30	15
155°	25	28	28	28	25	12
165°	28	28	28	28	28	8
175°	28	28	25	23	23	3
180°	25	25	25	25	25	



TEST NUMBER: P830542

CATALOG NUMBER: OHBL-48SE-MCL-UNV-L850-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	17343.3	17343.3	17343.3	17343.3	17343.3
2.5°	17273.1	17345.8	17255.5	17353.3	17378.4
5°	17230.5	17290.7	17170.3	17222.9	17200.4
7.5°	17152.7	17172.8	17029.9	17072.5	17027.3
10°	17037.4	17027.3	16859.3	16942.1	16952.1
12.5°	16866.9	16836.8	16686.3	16811.7	16814.2
15°	16671.3	16606.1	16488.2	16633.6	16653.7
17.5°	16445.6	16360.3	16282.6	16470.6	16440.5
20°	16182.2	16081.9	16066.9	16272.5	16197.3
22.5°	15856.2	15778.5	15813.6	16009.2	15961.6
25°	15487.6	15419.9	15527.7	15670.7	15625.5
27.5°	15098.9	15058.8	15181.7	15292.0	15204.2
30°	14672.6	14650.0	14813.0	14903.3	14793.0
32.5°	14208.7	14216.2	14371.7	14494.6	14391.7
35°	13727.2	13759.8	13900.2	14048.2	13993.0
37.5°	13198.1	13270.8	13411.2	13579.2	13521.6
40°	12638.9	12744.2	12899.7	13102.8	13050.1
42.5°	12034.5	12167.4	12368.0	12593.7	12588.7
45°	11392.5	11578.1	11793.8	12094.7	12132.3
47.5°	10725.5	10933.6	11207.0	11608.2	11665.9
50°	10000.7	10261.5	10602.6	11084.1	11119.2
52.5°	9193.3	9549.4	10000.7	10462.2	10419.5
55°	8383.3	8787.0	9386.4	9762.5	9739.9
57.5°	7575.8	8029.7	8756.9	9025.2	9022.7
60°	6673.0	7247.3	8042.2	8245.3	8044.7
62.5°	5837.9	6454.8	7279.9	7131.9	6444.8
65°	4920.1	5690.0	6459.9	5451.8	4451.2
67.5°	4105.1	4907.6	5486.9	3734.0	3197.3
70°	3285.1	4170.3	4278.2	2771.0	2733.4
72.5°	2557.9	3500.8	2951.6	2372.3	2492.7
75°	1936.0	2808.6	2066.4	2114.0	2251.9
77.5°	1411.8	2156.6	1607.4	1853.2	1966.0
80°	970.5	1527.2	1311.5	1557.3	1635.0
82.5°	609.4	1008.1	1050.7	1253.9	1334.1
85°	333.5	639.5	820.0	990.5	1038.2
87.5°	137.9	386.2	626.9	764.9	805.0
90°	2.5	213.2	423.8	531.6	556.7
92.5°	2.5	163.0	346.1	428.8	446.4
95°	2.5	132.9	290.9	353.6	363.6
97.5°	5.0	105.3	243.2	293.4	303.4
100°	7.5	87.8	203.1	245.8	253.3
102.5°	10.0	70.2	170.5	205.6	213.2
105°	10.0	57.7	142.9	173.0	180.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	17.6	35.1	85.3	107.8	112.8
115°	20.1	30.1	72.7	92.8	97.8
117.5°	20.1	25.1	62.7	77.7	82.8
120°	20.1	22.6	55.2	67.7	70.2
122.5°	20.1	20.1	47.6	60.2	62.7
125°	17.6	20.1	45.1	52.7	55.2
127.5°	20.1	20.1	40.1	47.6	50.2
130°	20.1	22.6	35.1	45.1	45.1
132.5°	22.6	25.1	32.6	42.6	42.6
135°	22.6	25.1	27.6	40.1	42.6
137.5°	25.1	25.1	25.1	37.6	40.1
140°	25.1	25.1	22.6	32.6	35.1
142.5°	22.6	25.1	22.6	30.1	32.6
145°	22.6	25.1	25.1	27.6	30.1
147.5°	25.1	25.1	25.1	25.1	27.6
150°	25.1	25.1	25.1	25.1	25.1
152.5°	25.1	25.1	25.1	25.1	25.1
155°	25.1	27.6	27.6	27.6	25.1
157.5°	25.1	27.6	27.6	27.6	27.6
160°	25.1	27.6	27.6	27.6	27.6
162.5°	27.6	27.6	27.6	27.6	27.6
165°	27.6	27.6	27.6	27.6	27.6
167.5°	27.6	30.1	27.6	27.6	27.6
170°	27.6	27.6	27.6	25.1	25.1
172.5°	27.6	27.6	27.6	25.1	25.1
175°	27.6	27.6	25.1	22.6	22.6
177.5°	30.1	27.6	25.1	22.6	20.1
180°	25.1	25.1	25.1	25.1	25.1



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	12.5	47.6	122.9	148.0	153.0
110°	15.0	40.1	102.8	125.4	130.4



(END OF REPORT)