

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: P830539

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830539  
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-L830-CD  
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND MEDIUM CLEAR LENS  
Light Source: -  
Ballast/Driver: -

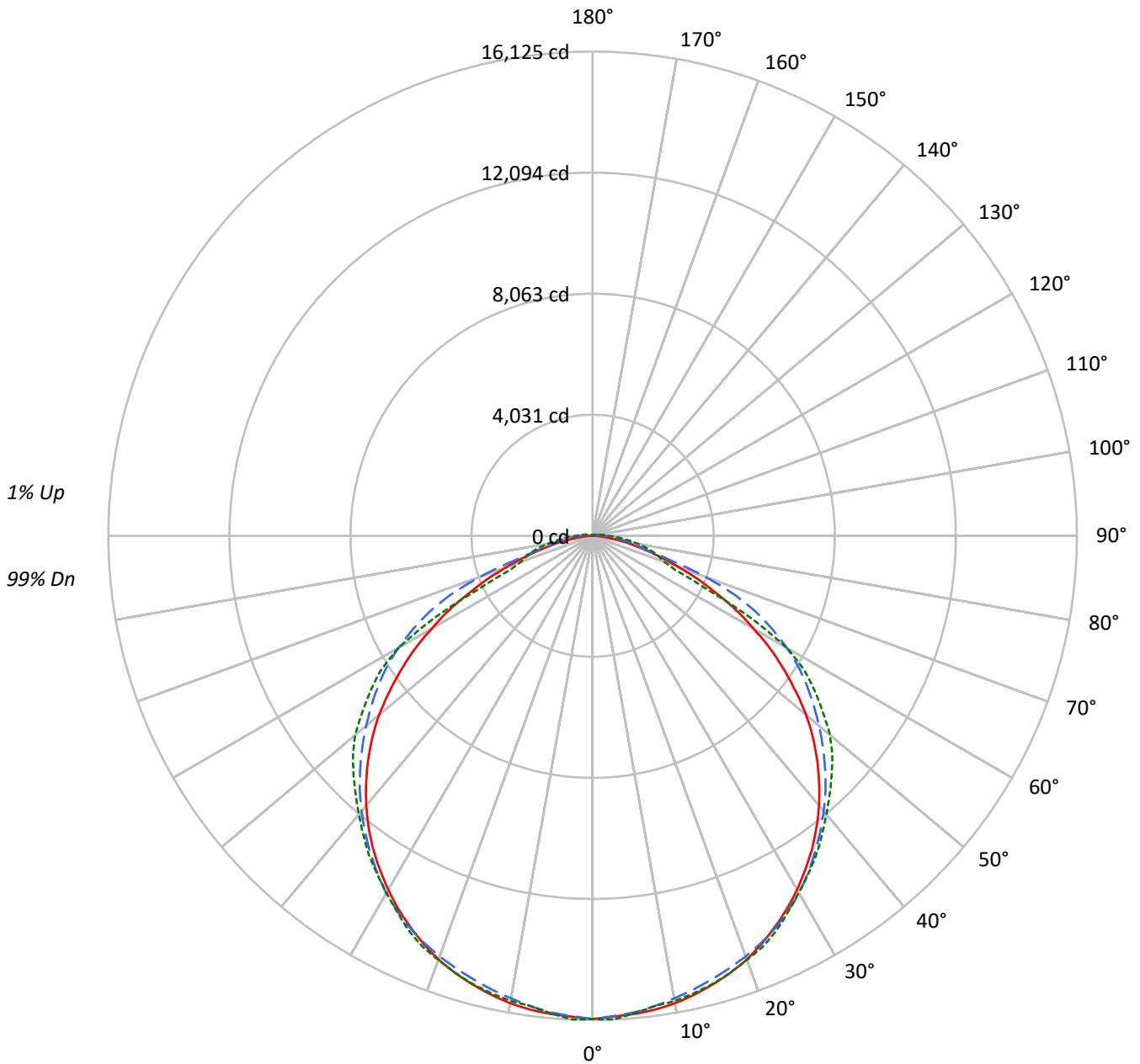
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45484.0 lumens  
Efficiency: N/A  
Efficacy: 157.5 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°	27485	27485	27485
5°	27306	27074	27126
10°	27206	26652	26807
15°	27033	26333	26610
20°	26860	26128	26357
25°	26536	25921	26106
30°	26184	25601	25593
35°	25762	25101	25300
40°	25214	24585	24908
45°	24455	23988	24719
50°	23426	23310	24494
55°	21791	22640	23548
60°	19650	21666	21733
65°	16856	19880	13744
70°	13577	15488	9935
75°	10179	9167	10041
80°	7086	7586	9521
85°	4033	6888	8808



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1517.4	3.3
10°-20°	4351.1	9.6
20°-30°	6645.4	14.6
30°-40°	8063.2	17.7
40°-50°	8451.0	18.6
50°-60°	7657.9	16.8
60°-70°	5134.3	11.3
70°-80°	2305.5	5.1
80°-90°	836.6	1.8
90°-100°	251.8	0.6
100°-110°	118.8	0.3
110°-120°	59.6	0.1
120°-130°	32.8	0.1
130°-140°	22.6	0.0
140°-150°	15.2	0.0
150°-160°	11.3	0.0
160°-170°	7.3	0.0
170°-180°	2.3	0.0
0°-30°	12513.8	27.5
0°-40°	20577.0	45.2
0°-60°	36685.8	80.7
0°-90°	44962.3	98.9
90°-120°	430.2	0.9
90°-150°	500.8	1.1
90°-180°	522.0	1.1
0°-180°	45484.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16092	16092	16092	16092	16092	
5°	15988	16043	15932	15981	15960	###
15°	15469	15408	15299	15434	15452	4367
25°	14370	14308	14408	14540	14498	6624
35°	12737	12767	12898	13035	12984	7961
45°	10571	10743	10943	11222	11257	8143
55°	7779	8153	8709	9058	9037	6943
65°	4565	5280	5994	5058	4130	4549
75°	1796	2606	1917	1962	2090	1963
85°	310	593	761	919	963	378
90°	2	198	393	493	517	18
95°	2	123	270	328	337	3
105°	9	54	133	161	168	11
115°	19	28	68	86	91	17
125°	16	19	42	49	51	16
135°	21	23	26	37	40	17
145°	21	23	23	26	28	14
155°	23	26	26	26	23	11
165°	26	26	26	26	26	7
175°	26	26	23	21	21	2
180°	23	23	23	23	23	



TEST NUMBER: P830539

CATALOG NUMBER: OHBL-48SE-MCL-UNV-L830-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	16092.3	16092.3	16092.3	16092.3	16092.3
2.5°	16027.1	16094.6	16010.8	16101.6	16124.9
5°	15987.6	16043.4	15931.7	15980.6	15959.6
7.5°	15915.4	15934.1	15801.4	15841.0	15799.1
10°	15808.4	15799.1	15643.2	15720.0	15729.3
12.5°	15650.2	15622.3	15482.7	15599.0	15601.3
15°	15468.7	15408.2	15298.8	15433.8	15452.4
17.5°	15259.3	15180.2	15108.0	15282.5	15254.6
20°	15015.0	14921.9	14907.9	15098.7	15028.9
22.5°	14712.5	14640.3	14672.9	14854.4	14810.2
25°	14370.4	14307.6	14407.7	14540.3	14498.4
27.5°	14009.8	13972.5	14086.6	14188.9	14107.5
30°	13614.2	13593.3	13744.5	13828.3	13725.9
32.5°	13183.8	13190.7	13335.0	13449.0	13353.6
35°	12737.0	12767.3	12897.6	13034.8	12983.6
37.5°	12246.0	12313.5	12443.8	12599.7	12546.2
40°	11727.2	11824.9	11969.2	12157.6	12108.8
42.5°	11166.4	11289.7	11475.9	11685.3	11680.6
45°	10570.7	10742.9	10943.0	11222.2	11257.1
47.5°	9951.8	10144.9	10398.6	10770.8	10824.4
50°	9279.4	9521.3	9837.8	10284.5	10317.1
52.5°	8530.1	8860.5	9279.4	9707.5	9667.9
55°	7778.6	8153.2	8709.3	9058.3	9037.4
57.5°	7029.3	7450.5	8125.3	8374.2	8371.9
60°	6191.7	6724.5	7462.1	7650.6	7464.4
62.5°	5416.8	5989.2	6754.8	6617.5	5979.9
65°	4565.2	5279.6	5993.9	5058.5	4130.1
67.5°	3809.0	4553.6	5091.1	3464.6	2966.7
70°	3048.1	3869.5	3969.6	2571.1	2536.2
72.5°	2373.4	3248.2	2738.7	2201.2	2312.9
75°	1796.3	2606.0	1917.3	1961.5	2089.5
77.5°	1310.0	2001.1	1491.5	1719.5	1824.2
80°	900.5	1417.0	1216.9	1445.0	1517.1
82.5°	565.4	935.4	974.9	1163.4	1237.9
85°	309.5	593.3	760.9	919.1	963.3
87.5°	128.0	358.3	581.7	709.7	746.9
90°	2.3	197.8	393.2	493.3	516.6
92.5°	2.3	151.2	321.1	397.9	414.2
95°	2.3	123.3	269.9	328.1	337.4
97.5°	4.7	97.7	225.7	272.2	281.5
100°	7.0	81.4	188.5	228.0	235.0
102.5°	9.3	65.2	158.2	190.8	197.8
105°	9.3	53.5	132.6	160.6	167.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	16.3	32.6	79.1	100.1	104.7
115°	18.6	27.9	67.5	86.1	90.7
117.5°	18.6	23.3	58.2	72.1	76.8
120°	18.6	20.9	51.2	62.8	65.2
122.5°	18.6	18.6	44.2	55.8	58.2
125°	16.3	18.6	41.9	48.9	51.2
127.5°	18.6	18.6	37.2	44.2	46.5
130°	18.6	20.9	32.6	41.9	41.9
132.5°	20.9	23.3	30.2	39.6	39.6
135°	20.9	23.3	25.6	37.2	39.6
137.5°	23.3	23.3	23.3	34.9	37.2
140°	23.3	23.3	20.9	30.2	32.6
142.5°	20.9	23.3	20.9	27.9	30.2
145°	20.9	23.3	23.3	25.6	27.9
147.5°	23.3	23.3	23.3	23.3	25.6
150°	23.3	23.3	23.3	23.3	23.3
152.5°	23.3	23.3	23.3	23.3	23.3
155°	23.3	25.6	25.6	25.6	23.3
157.5°	23.3	25.6	25.6	25.6	25.6
160°	23.3	25.6	25.6	25.6	25.6
162.5°	25.6	25.6	25.6	25.6	25.6
165°	25.6	25.6	25.6	25.6	25.6
167.5°	25.6	27.9	25.6	25.6	25.6
170°	25.6	25.6	25.6	23.3	23.3
172.5°	25.6	25.6	25.6	23.3	23.3
175°	25.6	25.6	23.3	20.9	20.9
177.5°	27.9	25.6	23.3	20.9	18.6
180°	23.3	23.3	23.3	23.3	23.3



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	11.6	44.2	114.0	137.3	<i>141.9</i>
110°	14.0	37.2	95.4	116.3	<i>121.0</i>



(END OF REPORT)