

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: P830563

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830563  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48SE-N-UNV-L830-CD  
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

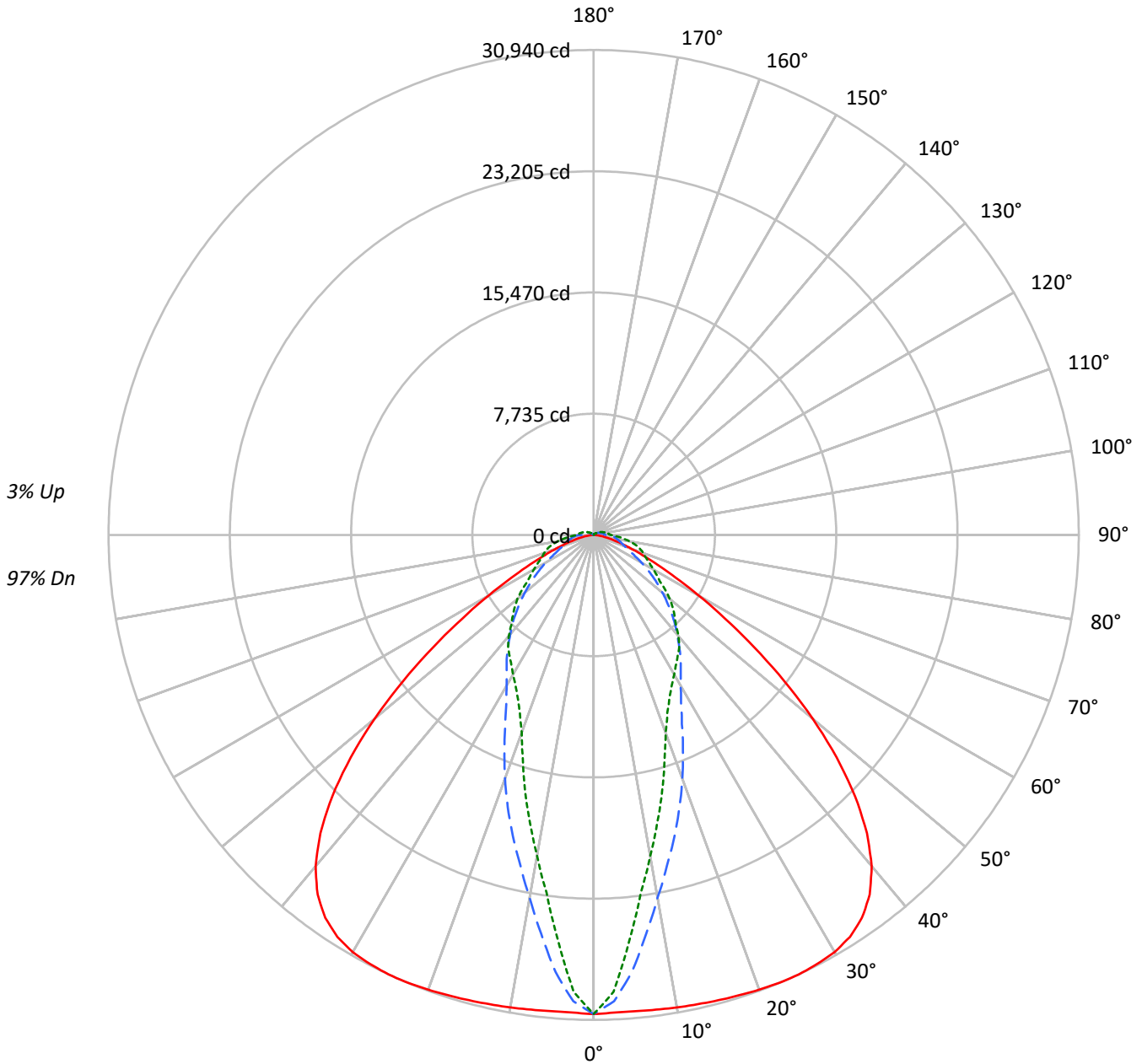
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45111.0 lumens  
Efficiency: N/A  
Efficacy: 156.2 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
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				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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	85	82
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	73	71
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	64	62
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	56	54
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	50	48
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	45	43
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	41	39
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	37	35
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	34	32
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	30

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	52205	52205	52205
5°	52099	47542	44202
10°	52687	40046	35443
15°	53715	34249	29091
20°	55224	28959	23529
25°	57134	23970	20616
30°	59109	20650	19152
35°	60339	18819	18247
40°	59307	16999	17311
45°	54560	15362	16027
50°	46032	13572	15042
55°	34977	11887	13386
60°	24512	10195	12815
65°	16488	8780	12546
70°	11260	8240	13162
75°	7814	8498	14063
80°	5379	9411	14478
85°	3146	11772	15189



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2572.9	5.7
10°-20°	6052.7	13.4
20°-30°	7587.0	16.8
30°-40°	8050.6	17.8
40°-50°	7279.1	16.1
50°-60°	5277.8	11.7
60°-70°	3312.1	7.3
70°-80°	2191.8	4.9
80°-90°	1262.7	2.8
90°-100°	611.7	1.4
100°-110°	422.2	0.9
110°-120°	260.5	0.6
120°-130°	126.2	0.3
130°-140°	58.0	0.1
140°-150°	31.7	0.1
150°-160°	13.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	16212.6	35.9
0°-40°	24263.3	53.8
0°-60°	36820.1	81.6
0°-90°	43586.7	96.6
90°-120°	1294.5	2.9
90°-150°	1510.5	3.3
90°-180°	1524.0	3.4
0°-180°	45111.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	30565	30565	30565	30565	30565	
5°	30504	29722	27976	26679	26007	###
15°	30737	25052	19898	17696	16893	8717
25°	30940	19371	13323	11825	11450	14294
35°	29832	12878	9670	9367	9364	18545
45°	23584	8157	7008	7177	7299	17966
55°	12486	5056	4573	4960	5137	11281
65°	4465	2932	2647	3392	3770	4647
75°	1379	1580	1777	2761	2926	1537
85°	241	654	1300	1809	1661	289
90°	0	273	753	1062	1070	16
95°	12	192	663	902	942	10
105°	23	128	483	640	657	23
115°	32	90	326	407	416	31
125°	35	46	166	209	206	30
135°	29	35	73	114	114	23
145°	35	38	44	67	64	21
155°	35	44	46	50	44	11
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-N-UNV-L830-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	30565.1	30565.1	30565.1	30565.1	30565.1
2.5°	30501.1	30326.6	29782.6	29451.0	29171.7
5°	30504.0	29721.5	27976.1	26678.7	26006.7
7.5°	30547.7	28808.1	25663.4	23769.6	23030.7
10°	30614.6	27676.4	23504.9	21486.0	20796.6
12.5°	30664.0	26402.3	21605.3	19531.2	18774.8
15°	30736.7	25052.5	19897.7	17695.6	16892.7
17.5°	30803.6	23781.3	18210.5	15909.4	15016.4
20°	30870.6	22411.1	16523.3	14152.4	13416.4
22.5°	30934.6	20965.3	14876.7	12788.1	12284.8
25°	30940.4	19371.2	13323.3	11825.2	11449.9
27.5°	30864.7	17718.9	12063.7	11019.4	10786.7
30°	30733.8	16116.0	11086.3	10437.6	10271.8
32.5°	30408.0	14481.1	10329.9	9876.1	9780.1
35°	29832.0	12878.2	9669.6	9367.1	9364.1
37.5°	28924.4	11455.7	8954.0	8901.6	8965.6
40°	27583.4	10210.7	8276.2	8415.8	8415.8
42.5°	25794.3	9128.5	7662.4	7804.9	7767.1
45°	23583.5	8156.9	7007.8	7176.6	7298.7
47.5°	21020.6	7301.6	6338.8	6664.6	6833.3
50°	18233.8	6487.1	5727.9	6143.9	6335.9
52.5°	15313.1	5733.7	5131.5	5608.6	5762.8
55°	12485.5	5055.9	4573.0	4959.9	5137.3
57.5°	9925.6	4410.1	4026.1	4392.6	4759.2
60°	7723.5	3854.5	3511.2	4034.8	4401.4
62.5°	5899.5	3359.9	3028.3	3700.3	4066.8
65°	4465.4	2932.3	2647.2	3391.9	3770.1
67.5°	3365.7	2562.8	2350.5	3167.9	3537.4
70°	2527.9	2205.0	2112.0	3028.3	3359.9
72.5°	1867.6	1876.3	1922.9	2906.1	3159.2
75°	1378.9	1579.6	1777.4	2760.7	2926.5
77.5°	986.2	1309.1	1646.5	2586.1	2644.3
80°	683.6	1067.6	1509.8	2356.3	2306.9
82.5°	427.6	855.3	1387.6	2103.2	1966.5
85°	241.4	654.5	1300.3	1809.4	1661.1
87.5°	107.6	488.7	1137.4	1410.9	1317.8
90°	0.0	273.4	753.4	1061.8	1070.5
92.5°	5.8	226.9	695.3	971.6	1000.7
95°	11.6	192.0	663.3	901.8	942.5
97.5°	14.5	168.7	622.5	837.8	872.7
100°	17.5	151.3	573.1	770.9	800.0
102.5°	20.4	139.6	526.5	701.1	724.3
105°	23.3	128.0	482.9	640.0	657.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	29.1	98.9	363.6	459.6	474.2
115°	32.0	90.2	325.8	407.3	416.0
117.5°	34.9	78.5	285.1	357.8	360.7
120°	34.9	69.8	244.4	305.4	305.4
122.5°	34.9	58.2	203.6	253.1	250.2
125°	34.9	46.5	165.8	209.4	206.5
127.5°	32.0	37.8	133.8	174.5	171.6
130°	32.0	37.8	107.6	148.4	148.4
132.5°	29.1	34.9	87.3	128.0	128.0
135°	29.1	34.9	72.7	113.5	113.5
137.5°	29.1	37.8	61.1	98.9	98.9
140°	29.1	34.9	52.4	87.3	87.3
142.5°	32.0	34.9	46.5	75.6	75.6
145°	34.9	37.8	43.6	66.9	64.0
147.5°	34.9	40.7	43.6	58.2	55.3
150°	34.9	43.6	43.6	52.4	49.5
152.5°	34.9	43.6	43.6	49.5	46.5
155°	34.9	43.6	46.5	49.5	43.6
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°	23.3	119.3	442.2	573.1	593.4
110°	26.2	107.6	404.4	512.0	532.4



(END OF REPORT)