

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: P830566

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830566  
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-L850-CD  
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

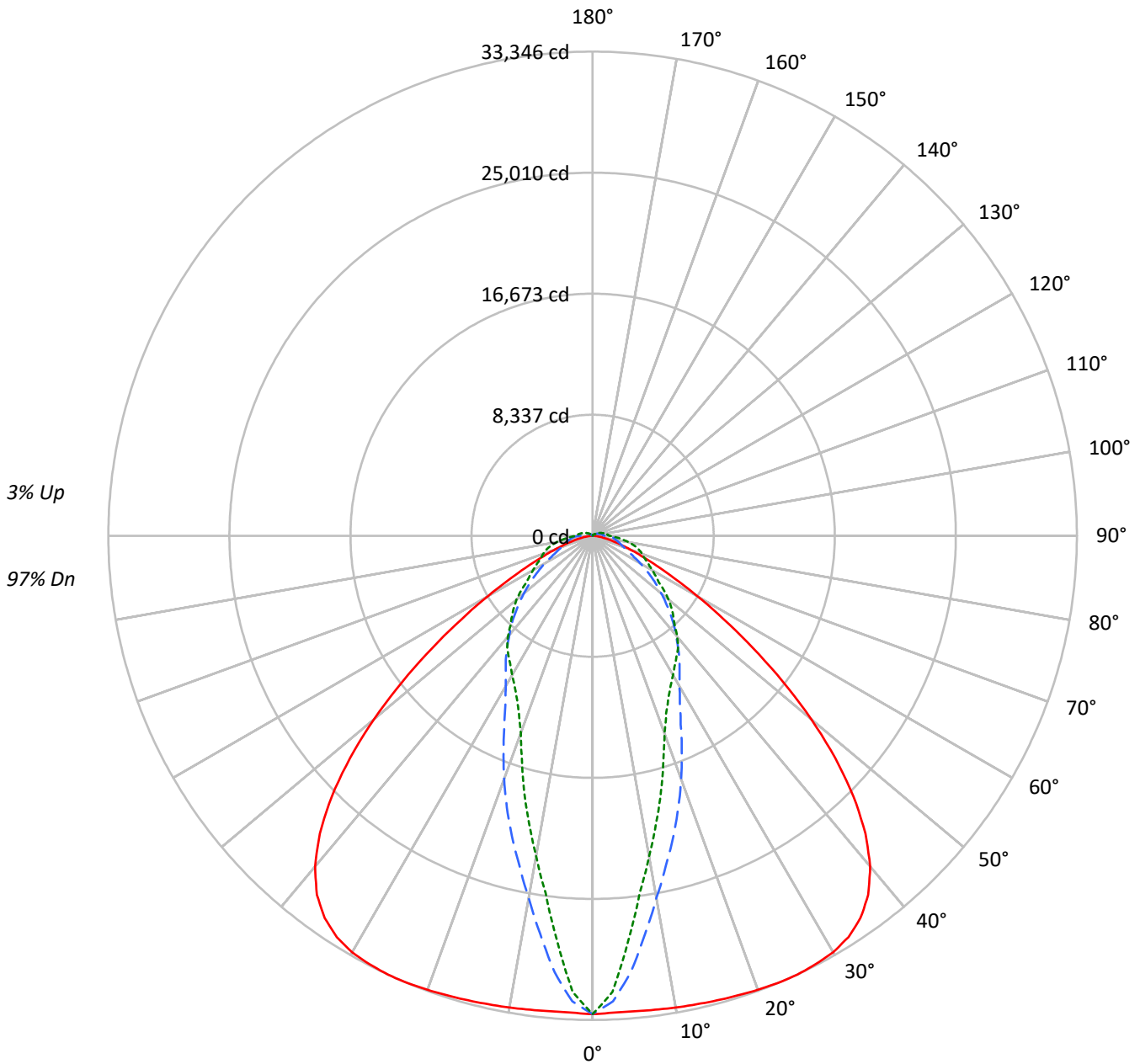
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48619.0 lumens  
Efficiency: N/A  
Efficacy: 168.3 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									
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	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	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

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

	0°	45°	90°
0°	56265	56265	56265
5°	56150	51239	47639
10°	56784	43160	38199
15°	57892	36912	31353
20°	59519	31211	25359
25°	61577	25834	22220
30°	63706	22256	20641
35°	65031	20282	19666
40°	63918	18321	18657
45°	58802	16556	17273
50°	49611	14627	16212
55°	37697	12812	14427
60°	26418	10988	13811
65°	17770	9463	13521
70°	12136	8881	14185
75°	8421	9158	15157
80°	5798	10143	15603
85°	3391	12688	16369



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2773.0	5.7
10°-20°	6523.4	13.4
20°-30°	8177.0	16.8
30°-40°	8676.7	17.8
40°-50°	7845.1	16.1
50°-60°	5688.2	11.7
60°-70°	3569.6	7.3
70°-80°	2362.2	4.9
80°-90°	1360.9	2.8
90°-100°	659.3	1.4
100°-110°	455.1	0.9
110°-120°	280.8	0.6
120°-130°	136.0	0.3
130°-140°	62.6	0.1
140°-150°	34.2	0.1
150°-160°	14.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	17473.4	35.9
0°-40°	26150.1	53.8
0°-60°	39683.4	81.6
0°-90°	46976.2	96.6
90°-120°	1395.2	2.9
90°-150°	1627.9	3.3
90°-180°	1643.0	3.4
0°-180°	48619.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	32942	32942	32942	32942	32942	
5°	32876	32033	30152	28753	28029	###
15°	33127	27001	21445	19072	18206	9395
25°	33346	20878	14359	12745	12340	15405
35°	32152	13880	10422	10096	10092	19987
45°	25417	8791	7553	7735	7866	19363
55°	13456	5449	4929	5346	5537	12158
65°	4813	3160	2853	3656	4063	5008
75°	1486	1702	1916	2975	3154	1657
85°	260	705	1402	1950	1790	312
90°	0	295	812	1144	1154	17
95°	12	207	715	972	1016	11
105°	25	138	520	690	709	25
115°	34	97	351	439	448	34
125°	38	50	179	226	223	33
135°	31	38	78	122	122	25
145°	38	41	47	72	69	23
155°	38	47	50	53	47	12
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830566

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	32942.0	32942.0	32942.0	32942.0	32942.0
2.5°	32873.0	32684.9	32098.6	31741.2	31440.2
5°	32876.1	32032.7	30151.6	28753.3	28029.0
7.5°	32923.2	31048.3	27659.1	25618.0	24821.7
10°	32995.3	29828.7	25332.7	23156.9	22413.8
12.5°	33048.6	28455.4	23285.4	21050.0	20234.8
15°	33126.9	27000.7	21445.0	19071.7	18206.3
17.5°	33199.1	25630.6	19626.6	17146.6	16184.1
20°	33271.2	24153.9	17808.2	15252.9	14459.7
22.5°	33340.1	22595.7	16033.6	13782.5	13240.1
25°	33346.4	20877.6	14359.4	12744.8	12340.3
27.5°	33264.9	19096.7	13001.8	11876.3	11625.5
30°	33123.8	17369.2	11948.4	11249.2	11070.5
32.5°	32772.7	15607.2	11133.2	10644.1	10540.7
35°	32151.9	13879.7	10421.5	10095.5	10092.3
37.5°	31173.7	12346.6	9650.3	9593.8	9662.8
40°	29728.3	11004.7	8919.8	9070.2	9070.2
42.5°	27800.2	9838.4	8258.2	8411.8	8371.1
45°	25417.4	8791.2	7552.8	7734.6	7866.3
47.5°	22655.2	7869.5	6831.7	7182.8	7364.7
50°	19651.7	6991.6	6173.3	6621.6	6828.6
52.5°	16503.9	6179.6	5530.6	6044.7	6210.9
55°	13456.4	5449.0	4928.6	5345.6	5536.8
57.5°	10697.4	4753.0	4339.2	4734.2	5129.3
60°	8324.1	4154.2	3784.2	4348.6	4743.6
62.5°	6358.3	3621.2	3263.8	3988.0	4383.1
65°	4812.6	3160.3	2853.1	3655.7	4063.3
67.5°	3627.5	2762.1	2533.3	3414.3	3812.5
70°	2724.5	2376.5	2276.2	3263.8	3621.2
72.5°	2012.8	2022.2	2072.4	3132.1	3404.9
75°	1486.1	1702.4	1915.6	2975.3	3154.1
77.5°	1062.8	1410.9	1774.5	2787.2	2849.9
80°	736.8	1150.6	1627.2	2539.5	2486.2
82.5°	460.9	921.8	1495.5	2266.8	2119.4
85°	260.2	705.4	1401.5	1950.1	1790.2
87.5°	116.0	526.7	1225.9	1520.6	1420.3
90°	0.0	294.7	812.0	1144.4	1153.8
92.5°	6.3	244.5	749.3	1047.2	1078.5
95°	12.5	206.9	714.8	971.9	1015.8
97.5°	15.7	181.8	670.9	902.9	940.6
100°	18.8	163.0	617.6	830.8	862.2
102.5°	21.9	150.5	567.5	755.6	780.7
105°	25.1	138.0	520.4	689.8	708.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	31.4	106.6	391.9	495.4	511.0
115°	34.5	97.2	351.1	438.9	448.3
117.5°	37.6	84.7	307.3	385.6	388.8
120°	37.6	75.2	263.4	329.2	329.2
122.5°	37.6	62.7	219.5	272.8	269.6
125°	37.6	50.2	178.7	225.7	222.6
127.5°	34.5	40.8	144.2	188.1	185.0
130°	34.5	40.8	116.0	159.9	159.9
132.5°	31.4	37.6	94.1	138.0	138.0
135°	31.4	37.6	78.4	122.3	122.3
137.5°	31.4	40.8	65.8	106.6	106.6
140°	31.4	37.6	56.4	94.1	94.1
142.5°	34.5	37.6	50.2	81.5	81.5
145°	37.6	40.8	47.0	72.1	69.0
147.5°	37.6	43.9	47.0	62.7	59.6
150°	37.6	47.0	47.0	56.4	53.3
152.5°	37.6	47.0	47.0	53.3	50.2
155°	37.6	47.0	50.2	53.3	47.0
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°	25.1	128.5	476.6	617.6	639.6
110°	28.2	116.0	435.8	551.8	573.7



(END OF REPORT)