

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: P830266

Luminaire Tested: **OHBL-30SE-MFL-UNV-L850-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830266  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-30SE-MFL-UNV-L850-CD  
Description: 30000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

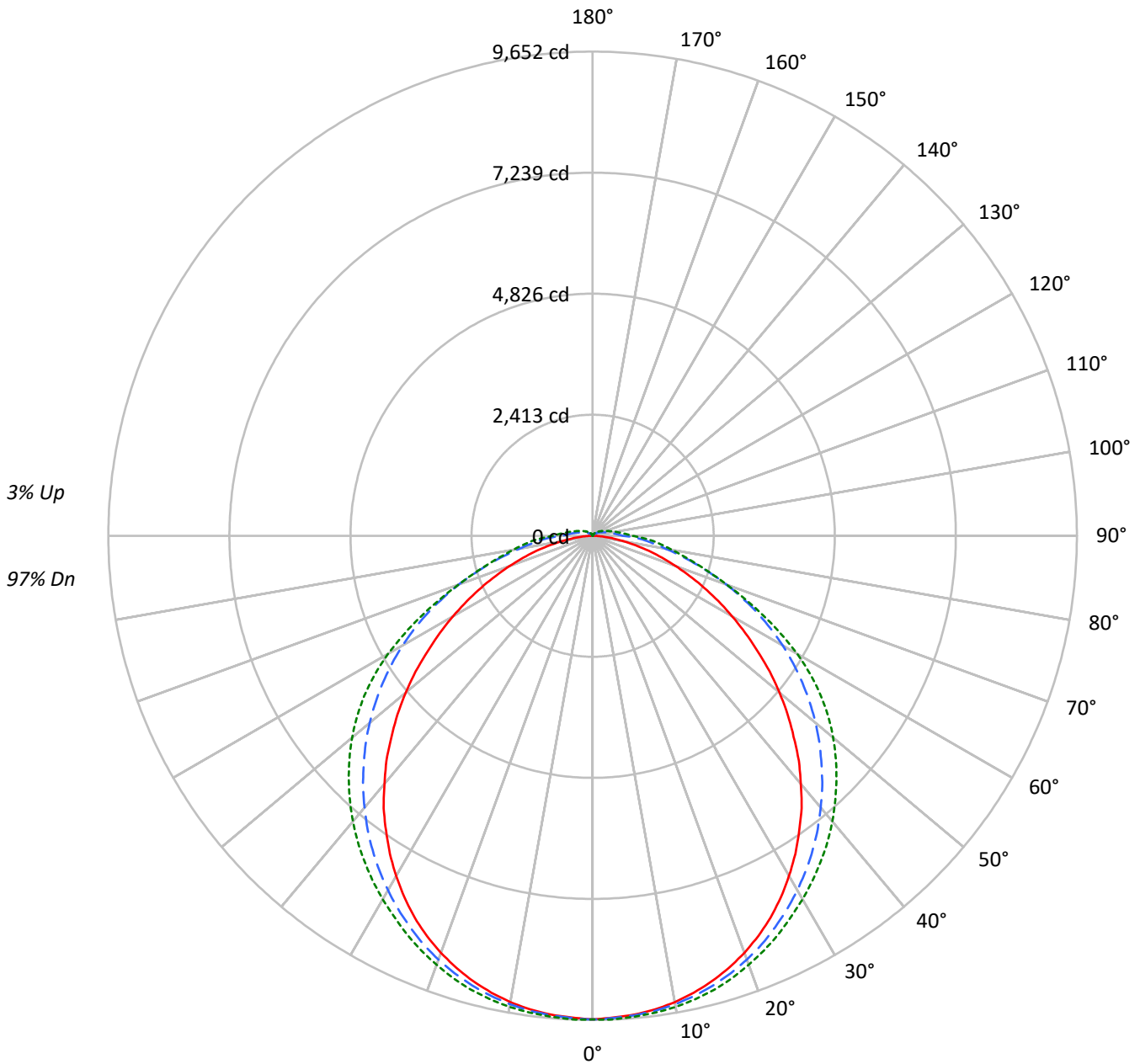
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28857.0 lumens  
Efficiency: N/A  
Efficacy: 165.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 174  
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				
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	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	25	23

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

	0°	45°	90°
0°	16468	16468	16468
5°	16363	16305	16352
10°	16248	16154	16256
15°	16067	15975	16133
20°	15826	15757	15958
25°	15504	15487	15781
30°	15059	15195	15602
35°	14519	14885	15446
40°	13871	14526	15290
45°	13108	14137	15094
50°	12272	13743	14858
55°	11245	13262	14468
60°	10193	12696	13707
65°	9044	11975	12470
70°	7799	11057	11130
75°	6539	9996	10206
80°	4958	9208	10056
85°	3136	9485	11090



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	913.6	3.2
10°-20°	2621.1	9.1
20°-30°	3963.9	13.7
30°-40°	4758.7	16.5
40°-50°	4915.0	17.0
50°-60°	4422.0	15.3
60°-70°	3331.0	11.5
70°-80°	2011.4	7.0
80°-90°	983.7	3.4
90°-100°	414.1	1.4
100°-110°	236.4	0.8
110°-120°	138.7	0.5
120°-130°	78.5	0.3
130°-140°	41.3	0.1
140°-150°	20.1	0.1
150°-160°	7.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	7498.7	26.0
0°-40°	12257.4	42.5
0°-60°	21594.4	74.8
0°-90°	27920.5	96.8
90°-120°	789.2	2.7
90°-150°	929.1	3.2
90°-180°	937.0	3.2
0°-180°	28857.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9642	9642	9642	9642	9642	
5°	9581	9607	9595	9633	9621	910
15°	9194	9238	9281	9359	9368	2592
25°	8396	8488	8608	8743	8764	3862
35°	7178	7346	7648	7879	7926	4488
45°	5666	5951	6449	6801	6874	4374
55°	4014	4429	5102	5486	5553	3599
65°	2449	2950	3610	3790	3747	2434
75°	1154	1657	2091	2145	2124	1231
85°	241	635	1048	1192	1213	278
90°	0	248	599	755	786	15
95°	12	168	448	571	592	10
105°	16	97	260	340	354	17
115°	19	54	160	215	224	19
125°	19	26	97	139	146	17
135°	16	21	50	85	94	13
145°	24	21	24	42	50	14
155°	24	26	24	21	24	7
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9642.0	9642.0	9642.0	9642.0	9642.0
2.5°	9613.7	9637.3	9623.2	9653.8	9651.5
5°	9580.7	9606.6	9594.8	9632.6	9620.8
7.5°	9524.1	9552.4	9550.0	9592.5	9587.8
10°	9441.5	9472.1	9481.6	9538.2	9538.2
12.5°	9328.2	9368.3	9391.9	9460.3	9462.7
15°	9193.7	9238.5	9281.0	9358.9	9368.3
17.5°	9030.9	9087.5	9146.5	9236.2	9248.0
20°	8846.8	8910.5	8990.7	9085.1	9099.3
22.5°	8634.4	8709.9	8813.8	8924.7	8941.2
25°	8396.1	8488.1	8608.5	8743.0	8764.2
27.5°	8124.7	8230.9	8393.7	8544.7	8563.6
30°	7829.7	7954.8	8157.7	8337.1	8367.8
32.5°	7518.2	7662.2	7912.3	8112.9	8155.4
35°	7178.4	7346.0	7648.0	7879.3	7926.5
37.5°	6843.3	7027.4	7369.6	7633.9	7690.5
40°	6451.6	6680.5	7072.2	7364.9	7433.3
42.5°	6083.5	6331.3	6774.9	7093.5	7159.6
45°	5665.8	5951.4	6449.3	6800.9	6874.0
47.5°	5274.1	5583.2	6135.4	6498.8	6574.3
50°	4861.1	5200.9	5800.3	6180.3	6258.1
52.5°	4448.2	4813.9	5453.4	5847.5	5920.7
55°	4014.0	4429.3	5101.8	5486.5	5552.6
57.5°	3610.5	4049.4	4740.8	5106.6	5146.7
60°	3211.7	3667.1	4372.7	4693.6	4707.8
62.5°	2822.3	3301.3	3995.1	4250.0	4231.1
65°	2449.4	2949.7	3610.5	3789.8	3747.3
67.5°	2090.8	2607.6	3216.4	3332.0	3275.4
70°	1751.0	2274.8	2834.1	2893.1	2841.2
72.5°	1451.3	1958.6	2447.1	2496.6	2458.9
75°	1153.9	1656.6	2090.8	2145.0	2123.8
77.5°	875.5	1364.0	1762.8	1833.5	1838.3
80°	630.1	1097.3	1477.2	1588.1	1602.3
82.5°	415.3	851.9	1238.9	1380.5	1401.7
85°	240.7	634.8	1047.7	1191.7	1212.9
87.5°	103.8	457.8	842.4	972.2	998.2
90°	0.0	247.8	599.4	755.1	785.8
92.5°	7.1	205.3	514.4	656.0	682.0
95°	11.8	167.5	448.4	571.1	592.3
97.5°	14.2	141.6	389.4	497.9	519.2
100°	14.2	122.7	337.4	436.6	455.4
102.5°	14.2	108.5	295.0	382.3	398.8
105°	16.5	96.8	259.6	339.8	354.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	18.9	63.7	179.3	240.7	250.1
115°	18.9	54.3	160.5	214.7	224.2
117.5°	21.2	47.2	141.6	193.5	200.6
120°	21.2	40.1	125.1	172.3	181.7
122.5°	21.2	33.0	110.9	155.7	162.8
125°	18.9	26.0	96.8	139.2	146.3
127.5°	16.5	21.2	82.6	125.1	132.1
130°	16.5	18.9	70.8	110.9	118.0
132.5°	16.5	21.2	59.0	96.8	106.2
135°	16.5	21.2	49.6	85.0	94.4
137.5°	16.5	21.2	40.1	73.2	82.6
140°	18.9	21.2	33.0	61.4	70.8
142.5°	21.2	21.2	26.0	51.9	59.0
145°	23.6	21.2	23.6	42.5	49.6
147.5°	23.6	23.6	23.6	33.0	40.1
150°	23.6	26.0	23.6	26.0	33.0
152.5°	23.6	26.0	23.6	21.2	26.0
155°	23.6	26.0	23.6	21.2	23.6
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°	16.5	85.0	228.9	302.1	313.9
110°	16.5	75.5	202.9	269.0	280.8



(END OF REPORT)