

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: P829845

Luminaire Tested: **OHBL-15SE-N-UNV-L840-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829845  
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-15SE-N-UNV-L840-CD  
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

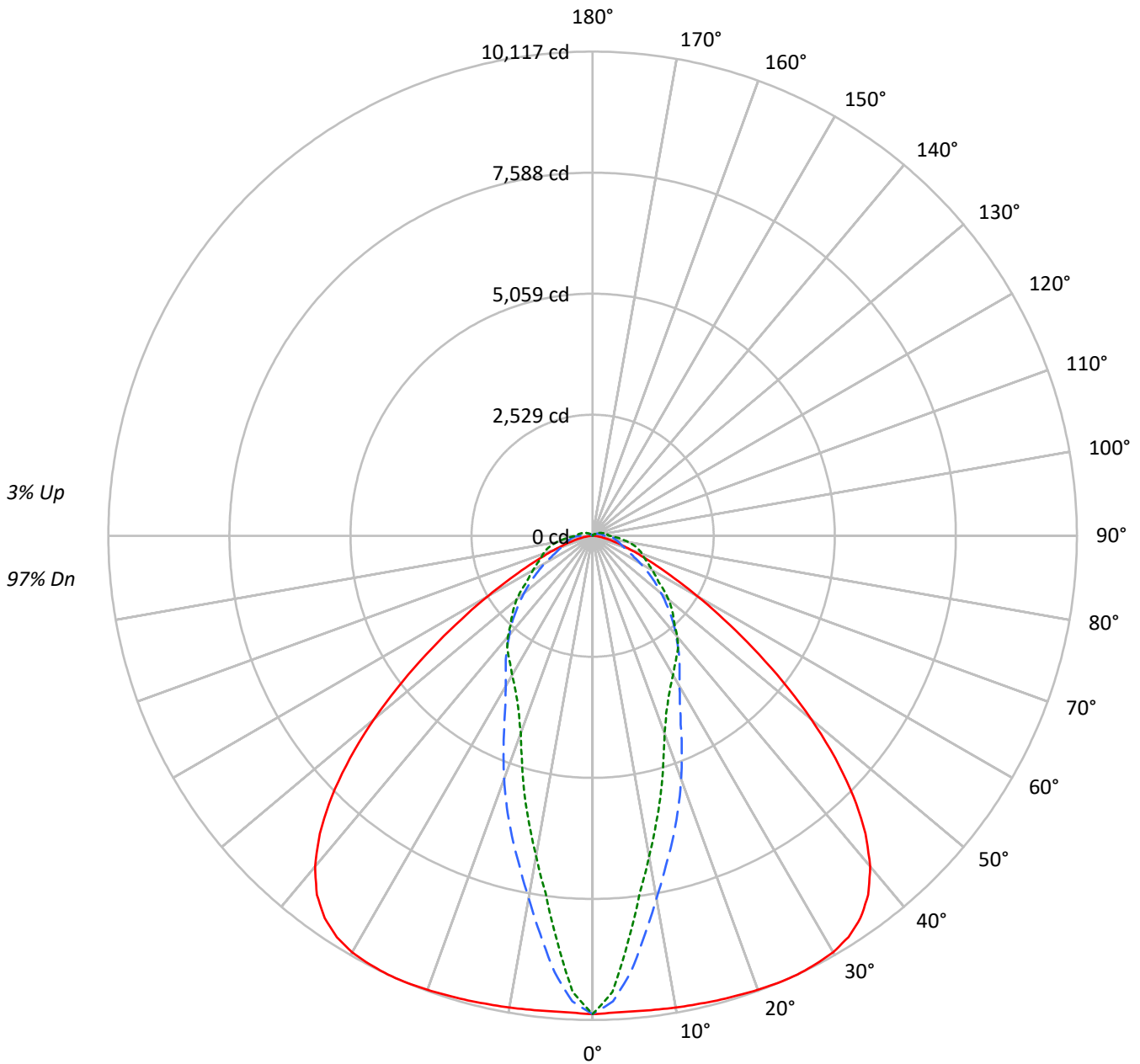
Lumens per Lamp: N/A  
Luminaire Lumens: 14751.0 lumens  
Efficiency: N/A  
Efficacy: 169.6 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 87  
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°	32516	32516	32516
5°	32449	29448	27317
10°	32816	24669	21735
15°	33456	20981	17701
20°	34396	17641	14204
25°	35586	14516	12343
30°	36816	12428	11367
35°	37582	11251	10730
40°	36939	10089	10076
45°	33982	9043	9223
50°	28670	7915	8546
55°	21785	6857	7490
60°	15267	5803	7041
65°	10269	4915	6737
70°	7013	4512	6860
75°	4867	4512	7030
80°	3350	4766	6793
85°	1961	5480	6381



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	841.3	5.7
10°-20°	1979.2	13.4
20°-30°	2480.9	16.8
30°-40°	2632.5	17.8
40°-50°	2380.2	16.1
50°-60°	1725.8	11.7
60°-70°	1083.0	7.3
70°-80°	716.7	4.9
80°-90°	412.9	2.8
90°-100°	200.1	1.4
100°-110°	138.1	0.9
110°-120°	85.2	0.6
120°-130°	41.3	0.3
130°-140°	19.0	0.1
140°-150°	10.4	0.1
150°-160°	4.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5301.4	35.9
0°-40°	7933.9	53.8
0°-60°	12039.9	81.6
0°-90°	14252.6	96.6
90°-120°	423.3	2.9
90°-150°	493.9	3.3
90°-180°	498.0	3.4
0°-180°	14751.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9995	9995	9995	9995	9995	
5°	9975	9719	9148	8724	8504	953
15°	10051	8192	6506	5786	5524	2850
25°	10117	6334	4357	3867	3744	4674
35°	9755	4211	3162	3063	3062	6064
45°	7712	2667	2292	2347	2387	5875
55°	4083	1653	1495	1622	1680	3689
65°	1460	959	866	1109	1233	1519
75°	451	516	581	903	957	503
85°	79	214	425	592	543	95
90°	0	89	246	347	350	5
95°	4	63	217	295	308	3
105°	8	42	158	209	215	8
115°	10	30	106	133	136	10
125°	11	15	54	68	68	10
135°	10	11	24	37	37	7
145°	11	12	14	22	21	7
155°	11	14	15	16	14	4
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-15SE-N-UNV-L840-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9994.6	9994.6	9994.6	9994.6	9994.6
2.5°	9973.7	9916.6	9738.7	9630.3	9538.9
5°	9974.6	9718.7	9148.0	8723.7	8504.0
7.5°	9988.9	9420.0	8391.8	7772.5	7530.9
10°	10010.8	9050.0	7686.0	7025.8	6800.4
12.5°	10026.9	8633.4	7064.8	6386.6	6139.2
15°	10050.7	8192.0	6506.4	5786.3	5523.8
17.5°	10072.6	7776.3	5954.7	5202.3	4910.3
20°	10094.5	7328.3	5403.0	4627.7	4387.1
22.5°	10115.4	6855.5	4864.6	4181.6	4017.1
25°	10117.3	6334.3	4356.6	3866.8	3744.0
27.5°	10092.6	5794.0	3944.8	3603.3	3527.2
30°	10049.8	5269.8	3625.1	3413.0	3358.8
32.5°	9943.2	4735.2	3377.8	3229.4	3198.0
35°	9754.9	4211.1	3161.9	3063.0	3062.0
37.5°	9458.1	3745.9	2927.9	2910.8	2931.7
40°	9019.6	3338.8	2706.3	2751.9	2751.9
42.5°	8434.6	2985.0	2505.5	2552.2	2539.8
45°	7711.6	2667.3	2291.5	2346.7	2386.6
47.5°	6873.6	2387.6	2072.7	2179.3	2234.4
50°	5962.3	2121.2	1873.0	2009.0	2071.8
52.5°	5007.3	1874.9	1678.0	1834.0	1884.4
55°	4082.7	1653.2	1495.3	1621.8	1679.9
57.5°	3245.6	1442.1	1316.5	1436.4	1556.2
60°	2525.5	1260.4	1148.1	1319.4	1439.2
62.5°	1929.1	1098.7	990.2	1210.0	1329.8
65°	1460.1	958.8	865.6	1109.1	1232.8
67.5°	1100.6	838.0	768.6	1035.9	1156.7
70°	826.6	721.0	690.6	990.2	1098.7
72.5°	610.7	613.5	628.8	950.3	1033.0
75°	450.9	516.5	581.2	902.7	956.9
77.5°	322.5	428.1	538.4	845.6	864.7
80°	223.5	349.1	493.7	770.5	754.3
82.5°	139.8	279.7	453.7	687.7	643.0
85°	79.0	214.0	425.2	591.7	543.2
87.5°	35.2	159.8	371.9	461.3	430.9
90°	0.0	89.4	246.4	347.2	350.1
92.5°	1.9	74.2	227.3	317.7	327.2
95°	3.8	62.8	216.9	294.9	308.2
97.5°	4.8	55.2	203.6	274.0	285.4
100°	5.7	49.5	187.4	252.1	261.6
102.5°	6.7	45.7	172.2	229.2	236.9
105°	7.6	41.9	157.9	209.3	215.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	9.5	32.3	118.9	150.3	155.1
115°	10.5	29.5	106.5	133.2	136.0
117.5°	11.4	25.7	93.2	117.0	118.0
120°	11.4	22.8	79.9	99.9	99.9
122.5°	11.4	19.0	66.6	82.8	81.8
125°	11.4	15.2	54.2	68.5	67.5
127.5°	10.5	12.4	43.8	57.1	56.1
130°	10.5	12.4	35.2	48.5	48.5
132.5°	9.5	11.4	28.5	41.9	41.9
135°	9.5	11.4	23.8	37.1	37.1
137.5°	9.5	12.4	20.0	32.3	32.3
140°	9.5	11.4	17.1	28.5	28.5
142.5°	10.5	11.4	15.2	24.7	24.7
145°	11.4	12.4	14.3	21.9	20.9
147.5°	11.4	13.3	14.3	19.0	18.1
150°	11.4	14.3	14.3	17.1	16.2
152.5°	11.4	14.3	14.3	16.2	15.2
155°	11.4	14.3	15.2	16.2	14.3
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°	7.6	39.0	144.6	187.4	194.1
110°	8.6	35.2	132.2	167.4	174.1



(END OF REPORT)