

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: P829833

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829833  
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-15SE-MFL-UNV-L840-CD  
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

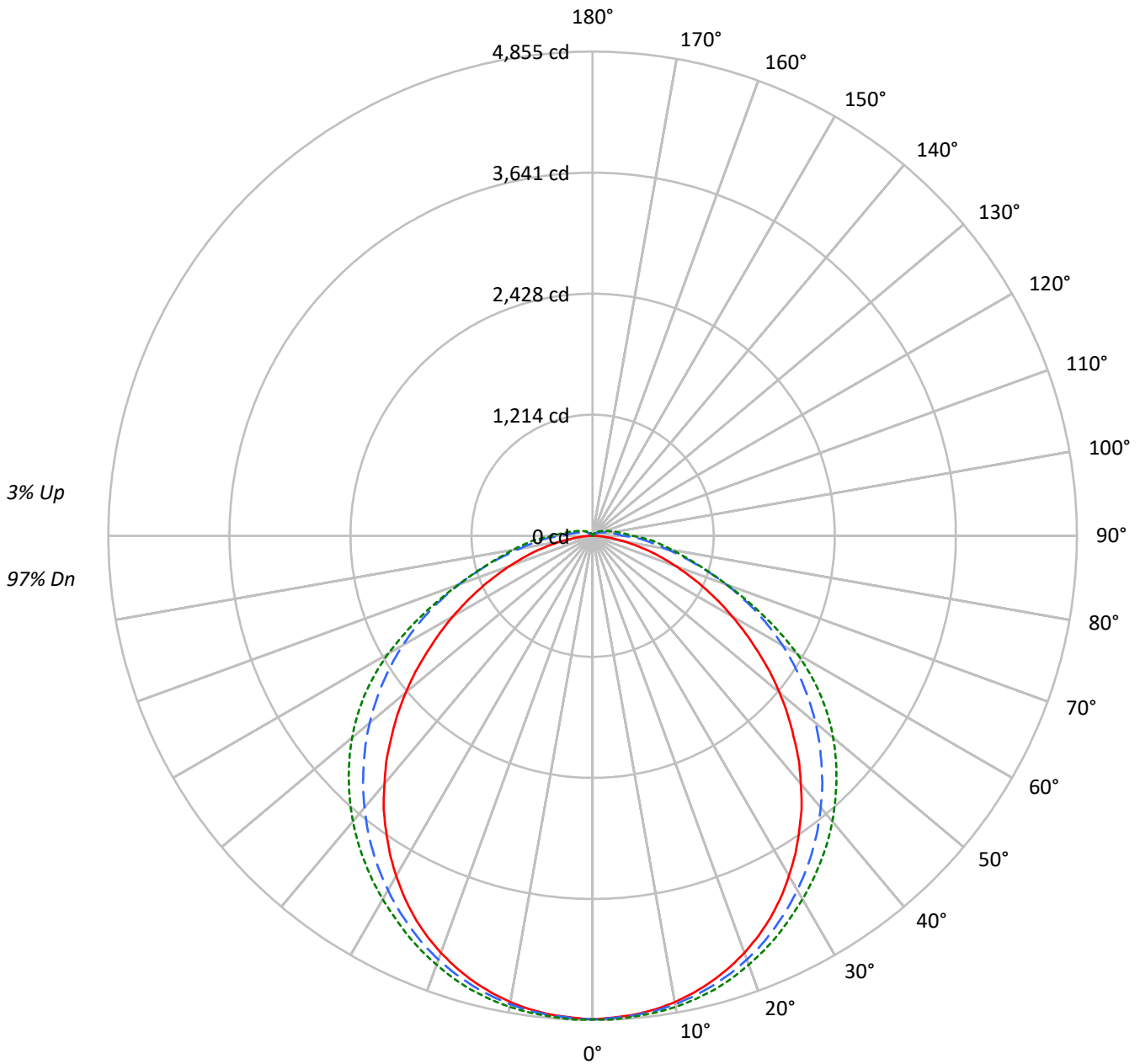
Lumens per Lamp: N/A  
Luminaire Lumens: 14515.0 lumens  
Efficiency: N/A  
Efficacy: 166.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')  
CIE Type: Direct

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				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°	15778	15778	15778
5°	15677	15536	15545
10°	15567	15307	15334
15°	15394	15054	15100
20°	15163	14765	14818
25°	14854	14427	14533
30°	14427	14067	14245
35°	13911	13688	13971
40°	13290	13262	13690
45°	12558	12802	13362
50°	11758	12329	12984
55°	10773	11768	12453
60°	9766	11117	11585
65°	8665	10312	10301
70°	7472	9314	8923
75°	6265	8164	7848
80°	4750	7172	7257
85°	3006	6792	7167



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	459.6	3.2
10°-20°	1318.4	9.1
20°-30°	1993.8	13.7
30°-40°	2393.6	16.5
40°-50°	2472.2	17.0
50°-60°	2224.2	15.3
60°-70°	1675.5	11.5
70°-80°	1011.7	7.0
80°-90°	494.8	3.4
90°-100°	208.3	1.4
100°-110°	118.9	0.8
110°-120°	69.8	0.5
120°-130°	39.5	0.3
130°-140°	20.8	0.1
140°-150°	10.1	0.1
150°-160°	3.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3771.8	26.0
0°-40°	6165.4	42.5
0°-60°	10861.9	74.8
0°-90°	14043.9	96.8
90°-120°	396.9	2.7
90°-150°	467.3	3.2
90°-180°	471.0	3.2
0°-180°	14515.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4850	4850	4850	4850	4850	
5°	4819	4832	4826	4845	4839	458
15°	4624	4647	4668	4708	4712	1304
25°	4223	4270	4330	4398	4408	1943
35°	3611	3695	3847	3963	3987	2257
45°	2850	2994	3244	3421	3458	2200
55°	2019	2228	2566	2760	2793	1810
65°	1232	1484	1816	1906	1885	1224
75°	580	833	1052	1079	1068	619
85°	121	319	527	599	610	140
90°	0	125	302	380	395	8
95°	6	84	226	287	298	5
105°	8	49	131	171	178	8
115°	10	27	81	108	113	10
125°	10	13	49	70	74	9
135°	8	11	25	43	48	7
145°	12	11	12	21	25	7
155°	12	13	12	11	12	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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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4849.9	4849.9	4849.9	4849.9	4849.9
2.5°	4835.7	4847.5	4840.4	4855.9	4854.7
5°	4819.1	4832.1	4826.2	4845.2	4839.2
7.5°	4790.6	4804.8	4803.6	4825.0	4822.6
10°	4749.0	4764.5	4769.2	4797.7	4797.7
12.5°	4692.1	4712.2	4724.1	4758.5	4759.7
15°	4624.4	4647.0	4668.3	4707.5	4712.2
17.5°	4542.5	4571.0	4600.7	4645.8	4651.7
20°	4449.9	4482.0	4522.3	4569.8	4576.9
22.5°	4343.1	4381.1	4433.3	4489.1	4497.4
25°	4223.2	4269.5	4330.0	4397.7	4408.4
27.5°	4086.7	4140.1	4222.0	4298.0	4307.5
30°	3938.3	4001.2	4103.3	4193.5	4209.0
32.5°	3781.7	3854.1	3979.9	4080.8	4102.1
35°	3610.7	3695.0	3846.9	3963.3	3987.0
37.5°	3442.2	3534.8	3706.9	3839.8	3868.3
40°	3245.2	3360.3	3557.3	3704.5	3738.9
42.5°	3060.0	3184.6	3407.8	3568.0	3601.2
45°	2849.9	2993.5	3244.0	3420.8	3457.6
47.5°	2652.9	2808.4	3086.1	3268.9	3306.9
50°	2445.1	2616.1	2917.6	3108.7	3147.8
52.5°	2237.4	2421.4	2743.1	2941.3	2978.1
55°	2019.0	2227.9	2566.2	2759.7	2792.9
57.5°	1816.1	2036.8	2384.6	2568.6	2588.8
60°	1615.5	1844.5	2199.4	2360.9	2368.0
62.5°	1419.6	1660.6	2009.5	2137.7	2128.2
65°	1232.1	1483.7	1816.1	1906.3	1884.9
67.5°	1051.6	1311.6	1617.8	1676.0	1647.5
70°	880.7	1144.2	1425.5	1455.2	1429.1
72.5°	730.0	985.2	1230.9	1255.8	1236.8
75°	580.4	833.2	1051.6	1078.9	1068.3
77.5°	440.4	686.1	886.7	922.3	924.6
80°	316.9	551.9	743.0	798.8	805.9
82.5°	208.9	428.5	623.2	694.4	705.1
85°	121.1	319.3	527.0	599.4	610.1
87.5°	52.2	230.3	423.7	489.0	502.1
90°	0.0	124.6	301.5	379.8	395.3
92.5°	3.6	103.3	258.8	330.0	343.0
95°	5.9	84.3	225.5	287.2	297.9
97.5°	7.1	71.2	195.8	250.4	261.1
100°	7.1	61.7	169.7	219.6	229.1
102.5°	7.1	54.6	148.4	192.3	200.6
105°	8.3	48.7	130.6	170.9	178.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	9.5	32.0	90.2	121.1	125.8
115°	9.5	27.3	80.7	108.0	112.8
117.5°	10.7	23.7	71.2	97.3	100.9
120°	10.7	20.2	62.9	86.6	91.4
122.5°	10.7	16.6	55.8	78.3	81.9
125°	9.5	13.1	48.7	70.0	73.6
127.5°	8.3	10.7	41.5	62.9	66.5
130°	8.3	9.5	35.6	55.8	59.3
132.5°	8.3	10.7	29.7	48.7	53.4
135°	8.3	10.7	24.9	42.7	47.5
137.5°	8.3	10.7	20.2	36.8	41.5
140°	9.5	10.7	16.6	30.9	35.6
142.5°	10.7	10.7	13.1	26.1	29.7
145°	11.9	10.7	11.9	21.4	24.9
147.5°	11.9	11.9	11.9	16.6	20.2
150°	11.9	13.1	11.9	13.1	16.6
152.5°	11.9	13.1	11.9	10.7	13.1
155°	11.9	13.1	11.9	10.7	11.9
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°	8.3	42.7	115.1	151.9	157.9
110°	8.3	38.0	102.1	135.3	141.2



(END OF REPORT)