

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: P829821

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P829821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-15SE-MCL-UNV-L840-CD
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

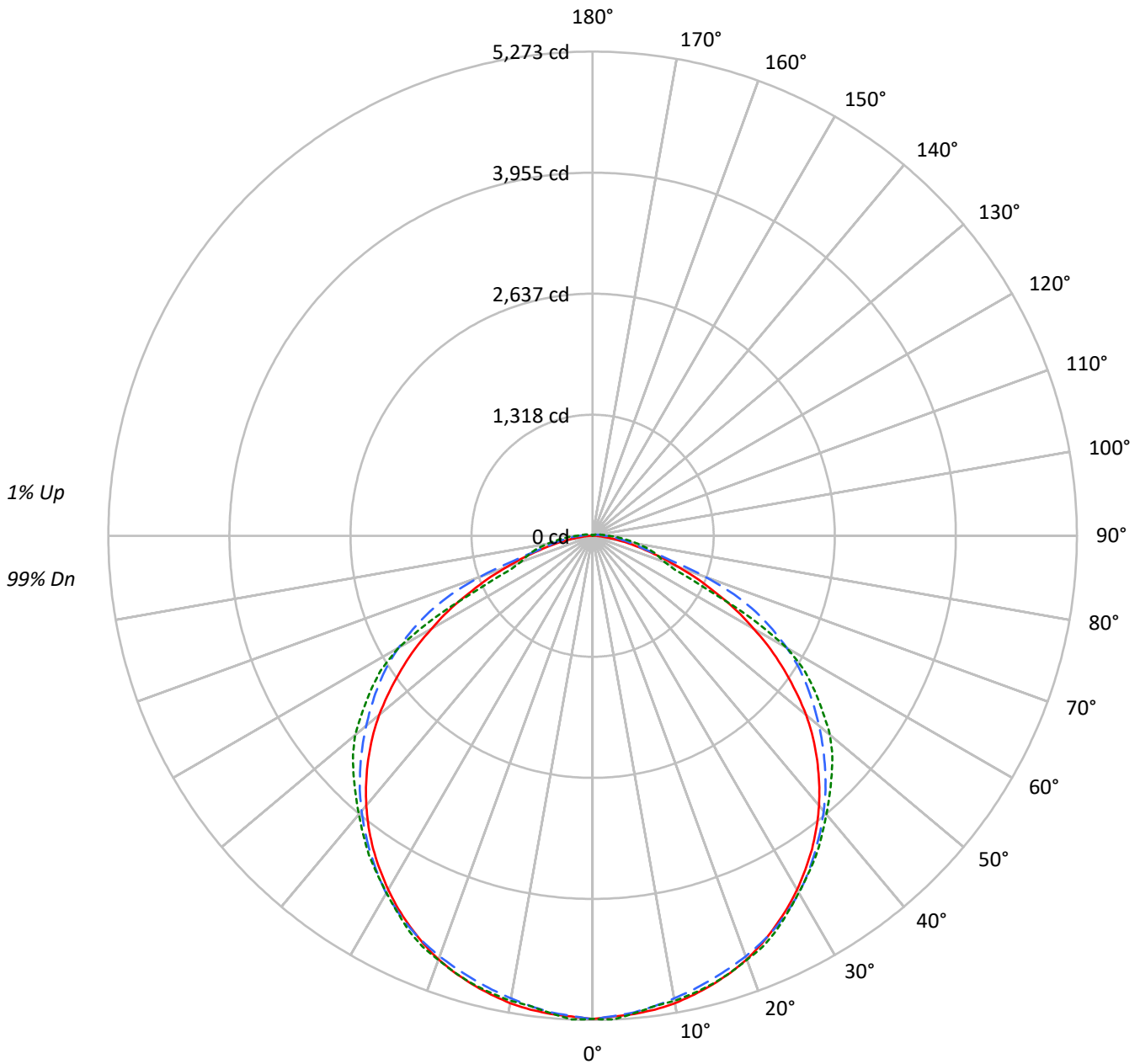
Lumens per Lamp: N/A
Luminaire Lumens: 14873.0 lumens
Efficiency: N/A
Efficacy: 171.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 87
Input Voltage (V): NR
Input Current (A_{in}): 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	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17119	17119	17119
5°	17007	16770	16764
10°	16945	16418	16439
15°	16838	16132	16192
20°	16730	15916	15911
25°	16528	15697	15630
30°	16309	15408	15190
35°	16046	15007	14877
40°	15705	14591	14498
45°	15232	14121	14226
50°	14591	13594	13915
55°	13572	13059	13177
60°	12239	12333	11941
65°	10499	11129	7381
70°	8456	8481	5178
75°	6340	4867	5019
80°	4414	3841	4468
85°	2512	3207	3700



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.2	3.3
10°-20°	1422.8	9.6
20°-30°	2173.0	14.6
30°-40°	2636.6	17.7
40°-50°	2763.4	18.6
50°-60°	2504.1	16.8
60°-70°	1678.9	11.3
70°-80°	753.9	5.1
80°-90°	273.6	1.8
90°-100°	82.4	0.6
100°-110°	38.9	0.3
110°-120°	19.5	0.1
120°-130°	10.8	0.1
130°-140°	7.4	0.0
140°-150°	5.0	0.0
150°-160°	3.7	0.0
160°-170°	2.4	0.0
170°-180°	0.8	0.0
0°-30°	4091.9	27.5
0°-40°	6728.6	45.2
0°-60°	11996.0	80.7
0°-90°	14702.4	98.9
90°-120°	140.7	0.9
90°-150°	163.8	1.1
90°-180°	171.0	1.1
0°-180°	14873.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5262	5262	5262	5262	5262	
5°	5228	5246	5210	5226	5219	497
15°	5058	5038	5003	5047	5053	1428
25°	4699	4678	4711	4755	4741	2166
35°	4165	4175	4217	4262	4246	2603
45°	3457	3513	3578	3670	3681	2663
55°	2544	2666	2848	2962	2955	2270
65°	1493	1726	1960	1654	1350	1487
75°	587	852	627	641	683	642
85°	101	194	249	300	315	123
90°	1	65	129	161	169	6
95°	1	40	88	107	110	1
105°	3	18	43	52	55	3
115°	6	9	22	28	30	6
125°	5	6	14	16	17	5
135°	7	8	8	12	13	5
145°	7	8	8	8	9	5
155°	8	8	8	8	8	4
165°	8	8	8	8	8	2
175°	8	8	8	7	7	1
180°	8	8	8	8	8	



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CATALOG NUMBER: OHBL-15SE-MCL-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5262.1	5262.1	5262.1	5262.1	5262.1
2.5°	5240.8	5262.8	5235.4	5265.1	5272.7
5°	5227.8	5246.1	5209.6	5225.6	5218.7
7.5°	5204.3	5210.3	5167.0	5179.9	5166.2
10°	5169.3	5166.2	5115.2	5140.3	5143.4
12.5°	5117.5	5108.4	5062.7	5100.8	5101.5
15°	5058.2	5038.4	5002.6	5046.8	5052.8
17.5°	4989.7	4963.8	4940.2	4997.3	4988.2
20°	4909.8	4879.4	4874.8	4937.2	4914.4
22.5°	4810.9	4787.3	4798.0	4857.3	4842.8
25°	4699.0	4678.5	4711.2	4754.6	4740.9
27.5°	4581.1	4568.9	4606.2	4639.7	4613.1
30°	4451.8	4444.9	4494.4	4521.8	4488.3
32.5°	4311.0	4313.3	4360.5	4397.7	4366.6
35°	4164.9	4174.8	4217.4	4262.3	4245.6
37.5°	4004.4	4026.4	4069.1	4120.0	4102.5
40°	3834.7	3866.7	3913.8	3975.5	3959.5
42.5°	3651.3	3691.7	3752.5	3821.0	3819.5
45°	3456.6	3512.9	3578.3	3669.6	3681.0
47.5°	3254.2	3317.3	3400.3	3522.0	3539.5
50°	3034.3	3113.4	3216.9	3363.0	3373.6
52.5°	2789.3	2897.3	3034.3	3174.3	3161.4
55°	2543.5	2666.0	2847.9	2962.0	2955.2
57.5°	2298.5	2436.3	2656.9	2738.3	2737.6
60°	2024.6	2198.9	2440.1	2501.7	2440.8
62.5°	1771.3	1958.4	2208.8	2163.9	1955.4
65°	1492.8	1726.4	1960.0	1654.1	1350.5
67.5°	1245.5	1489.0	1664.8	1132.9	970.1
70°	996.7	1265.3	1298.0	840.7	829.3
72.5°	776.1	1062.2	895.5	719.8	756.3
75°	587.4	852.2	626.9	641.4	683.2
77.5°	428.4	654.3	487.7	562.3	596.5
80°	294.5	463.4	397.9	472.5	496.1
82.5°	184.9	305.9	318.8	380.4	404.8
85°	101.2	194.0	248.8	300.5	315.0
87.5°	41.8	117.2	190.2	232.1	244.2
90°	0.8	64.7	128.6	161.3	168.9
92.5°	0.8	49.5	105.0	130.1	135.4
95°	0.8	40.3	88.3	107.3	110.3
97.5°	1.5	32.0	73.8	89.0	92.1
100°	2.3	26.6	61.6	74.6	76.8
102.5°	3.0	21.3	51.7	62.4	64.7
105°	3.0	17.5	43.4	52.5	54.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.3	10.7	25.9	32.7	34.2
115°	6.1	9.1	22.1	28.2	29.7
117.5°	6.1	7.6	19.0	23.6	25.1
120°	6.1	6.8	16.7	20.5	21.3
122.5°	6.1	6.1	14.5	18.3	19.0
125°	5.3	6.1	13.7	16.0	16.7
127.5°	6.1	6.1	12.2	14.5	15.2
130°	6.1	6.8	10.7	13.7	13.7
132.5°	6.8	7.6	9.9	12.9	12.9
135°	6.8	7.6	8.4	12.2	12.9
137.5°	7.6	7.6	7.6	11.4	12.2
140°	7.6	7.6	6.8	9.9	10.7
142.5°	6.8	7.6	6.8	9.1	9.9
145°	6.8	7.6	7.6	8.4	9.1
147.5°	7.6	7.6	7.6	7.6	8.4
150°	7.6	7.6	7.6	7.6	7.6
152.5°	7.6	7.6	7.6	7.6	7.6
155°	7.6	8.4	8.4	8.4	7.6
157.5°	7.6	8.4	8.4	8.4	8.4
160°	7.6	8.4	8.4	8.4	8.4
162.5°	8.4	8.4	8.4	8.4	8.4
165°	8.4	8.4	8.4	8.4	8.4
167.5°	8.4	9.1	8.4	8.4	8.4
170°	8.4	8.4	8.4	7.6	7.6
172.5°	8.4	8.4	8.4	7.6	7.6
175°	8.4	8.4	7.6	6.8	6.8
177.5°	9.1	8.4	7.6	6.8	6.1
180°	7.6	7.6	7.6	7.6	7.6



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	3.8	14.5	37.3	44.9	46.4
110°	4.6	12.2	31.2	38.0	39.6



(END OF REPORT)