

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: P827082

Luminaire Tested: **OHBL-15SE-MCL-UNV-L840-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827082
REPORT IS A COMBINATION OF REPORTS P826222 AND G3-2310-221-6
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-UPL24
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS AND 2400 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

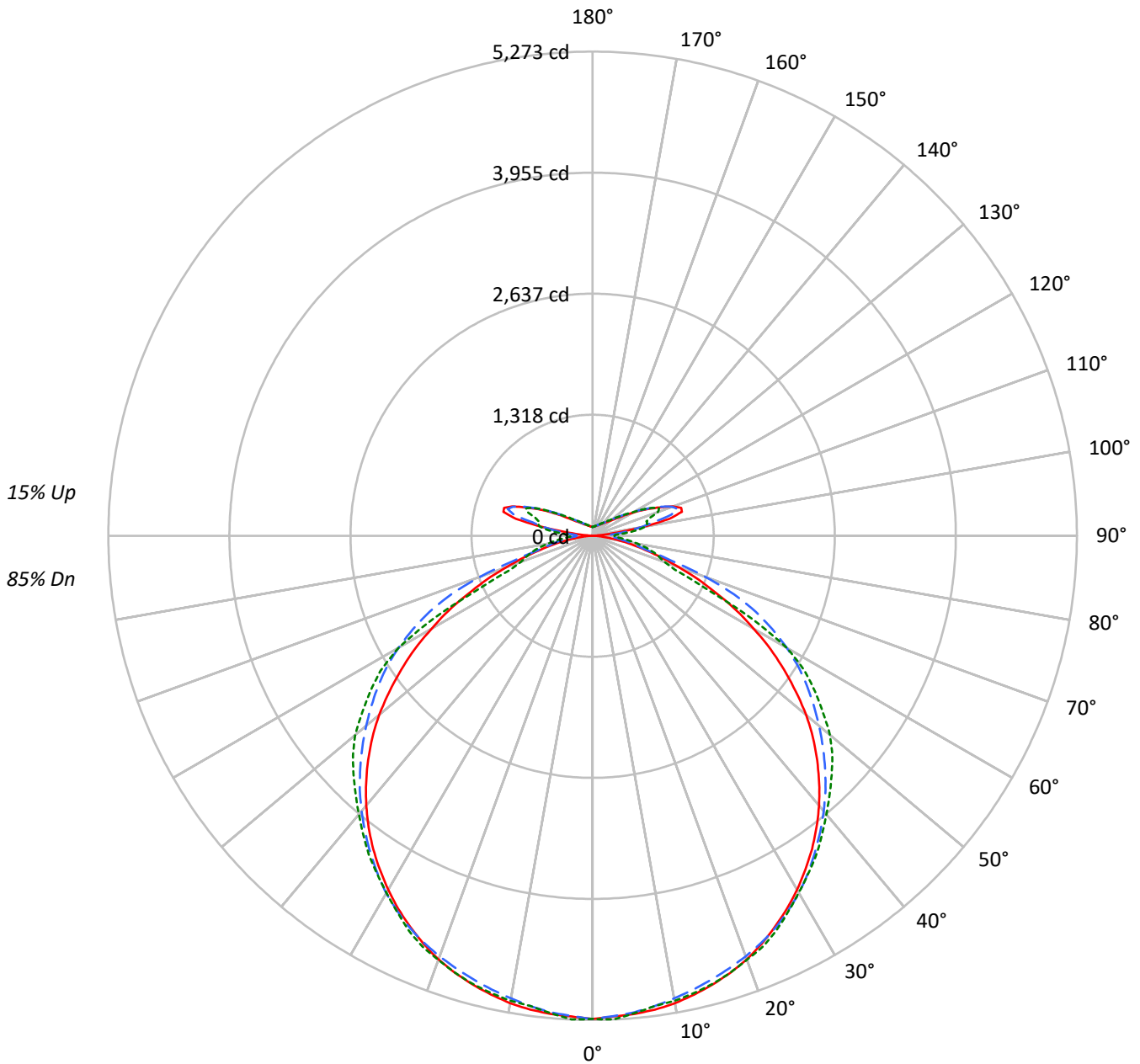
Lumens per Lamp: N/A
Luminaire Lumens: 17293.3 lumens
Efficiency: N/A
Efficacy: 165.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 104.4
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

TEST NUMBER: P827082

CATALOG NUMBER: OHBL-15SE-MCL-UNV-L840-CD-UPL24

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	115	115	115	115	111	111	111	111	103	103	103	95	95	95	88	88	88	85																			
1	106	101	97	93	102	97	94	90	91	88	85	84	82	80	78	76	75	72																			
2	96	88	82	76	92	85	79	74	79	75	70	74	70	67	69	66	63	60																			
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	61	57	54	51																			
4	80	69	60	54	77	67	59	53	62	56	51	58	53	48	54	50	46	43																			
5	74	61	53	46	71	60	51	45	56	49	44	52	46	42	49	44	40	38																			
6	68	55	47	40	65	54	45	40	50	43	38	47	41	37	44	39	35	33																			
7	63	50	42	36	61	48	41	35	46	39	34	43	37	32	40	35	31	29																			
8	59	46	37	32	56	44	36	31	42	35	30	39	33	29	37	32	28	26																			
9	55	42	34	28	53	41	33	28	38	32	27	36	30	26	34	29	25	23																			
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	32	27	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17119	17119	17119
5°	16793	16770	16977
10°	16522	16418	16860
15°	16209	16132	16820
20°	15896	15916	16746
25°	15491	15697	16675
30°	15066	15408	16442
35°	14594	15007	16357
40°	14041	14591	16216
45°	13358	14121	16221
50°	12516	13594	16222
55°	11341	13059	15769
60°	9905	12333	14755
65°	8158	11129	9498
70°	6223	8481	7036
75°	4315	4867	7374
80°	2652	3841	7435
85°	1189	3207	7818



TEST NUMBER: P827082

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.2	2.9
10°-20°	1422.8	8.2
20°-30°	2173.0	12.6
30°-40°	2636.6	15.2
40°-50°	2763.4	16.0
50°-60°	2504.1	14.5
60°-70°	1678.9	9.7
70°-80°	753.9	4.4
80°-90°	279.7	1.6
90°-100°	314.2	1.8
100°-110°	843.8	4.9
110°-120°	709.9	4.1
120°-130°	342.0	2.0
130°-140°	173.1	1.0
140°-150°	101.0	0.6
150°-160°	59.7	0.3
160°-170°	31.4	0.2
170°-180°	9.6	0.1
0°-30°	4091.9	23.7
0°-40°	6728.6	38.9
0°-60°	11996.0	69.4
0°-90°	14708.6	85.1
90°-120°	1867.9	10.8
90°-150°	2484.0	14.4
90°-180°	2585.0	14.9
0°-180°	17293.3	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°	6	99	176	223	238	10
95°	54	151	260	335	368	166
105°	1006	1010	887	654	607	955
115°	698	708	721	725	721	704
125°	343	362	377	378	376	322
135°	207	212	219	225	228	164
145°	152	157	160	161	163	97
155°	124	126	128	129	129	58
165°	108	109	110	110	110	31
175°	98	99	99	99	99	10
180°	98	98	98	98	98	



TEST NUMBER: P827082

CATALOG NUMBER: OHBL-15SE-MCL-UNV-L840-CD-UPL24

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°	5.8	98.7	175.6	223.3	237.9
92.5°	17.8	94.5	177.0	232.1	250.4
95°	53.8	151.3	260.3	335.3	368.3
97.5°	270.5	323.0	386.8	468.0	504.1
100°	554.3	612.6	534.6	574.6	585.8
102.5°	856.0	869.3	669.7	616.4	610.7
105°	1006.0	1009.5	887.4	653.5	606.8



TEST NUMBER: P827082

CATALOG NUMBER: OHBL-15SE-MCL-UNV-L840-CD-UPL24

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	813.3	830.7	829.9	813.7	783.2
115°	698.1	708.1	721.1	725.2	720.7
117.5°	598.1	600.6	616.0	619.6	622.1
120°	496.1	507.8	526.7	525.5	520.3
122.5°	417.1	429.1	443.5	445.3	440.0
125°	343.3	362.1	376.7	378.0	375.7
127.5°	292.1	305.1	321.2	324.5	324.2
130°	255.1	263.8	277.7	281.7	282.7
132.5°	227.8	235.6	244.9	251.9	250.9
135°	206.8	211.6	219.4	225.2	227.9
137.5°	190.6	193.6	199.6	206.4	207.2
140°	175.6	179.6	183.8	188.9	190.7
142.5°	161.8	166.6	169.8	174.1	174.9
145°	151.8	156.6	159.6	161.4	163.1
147.5°	143.6	147.6	149.6	151.6	152.4
150°	136.6	138.6	141.6	142.6	143.6
152.5°	129.6	131.6	134.6	135.6	135.6
155°	123.6	126.4	128.4	129.4	128.6
157.5°	118.6	121.4	123.4	124.4	124.4
160°	114.6	116.4	118.4	119.4	119.4
162.5°	111.4	112.4	113.4	114.4	114.4
165°	108.4	109.4	110.4	110.4	110.4
167.5°	105.4	106.1	106.4	107.4	107.4
170°	102.4	103.4	103.4	103.6	103.6
172.5°	100.4	101.4	101.4	100.6	101.6
175°	98.4	99.4	98.6	98.8	98.8
177.5°	99.1	98.4	97.6	96.8	96.1
180°	97.6	97.6	97.6	97.6	97.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1010.8	1025.5	970.3	773.9	653.4
110°	933.6	950.2	924.2	854.0	757.6



(END OF REPORT)