

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: P827081

Luminaire Tested: **OHBL-15SE-MCL-UNV-L840-CD-UPL15**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P827081  
REPORT IS A COMBINATION OF REPORTS P826114 AND G3-2310-221-10  
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-UPL15  
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS AND 1500 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

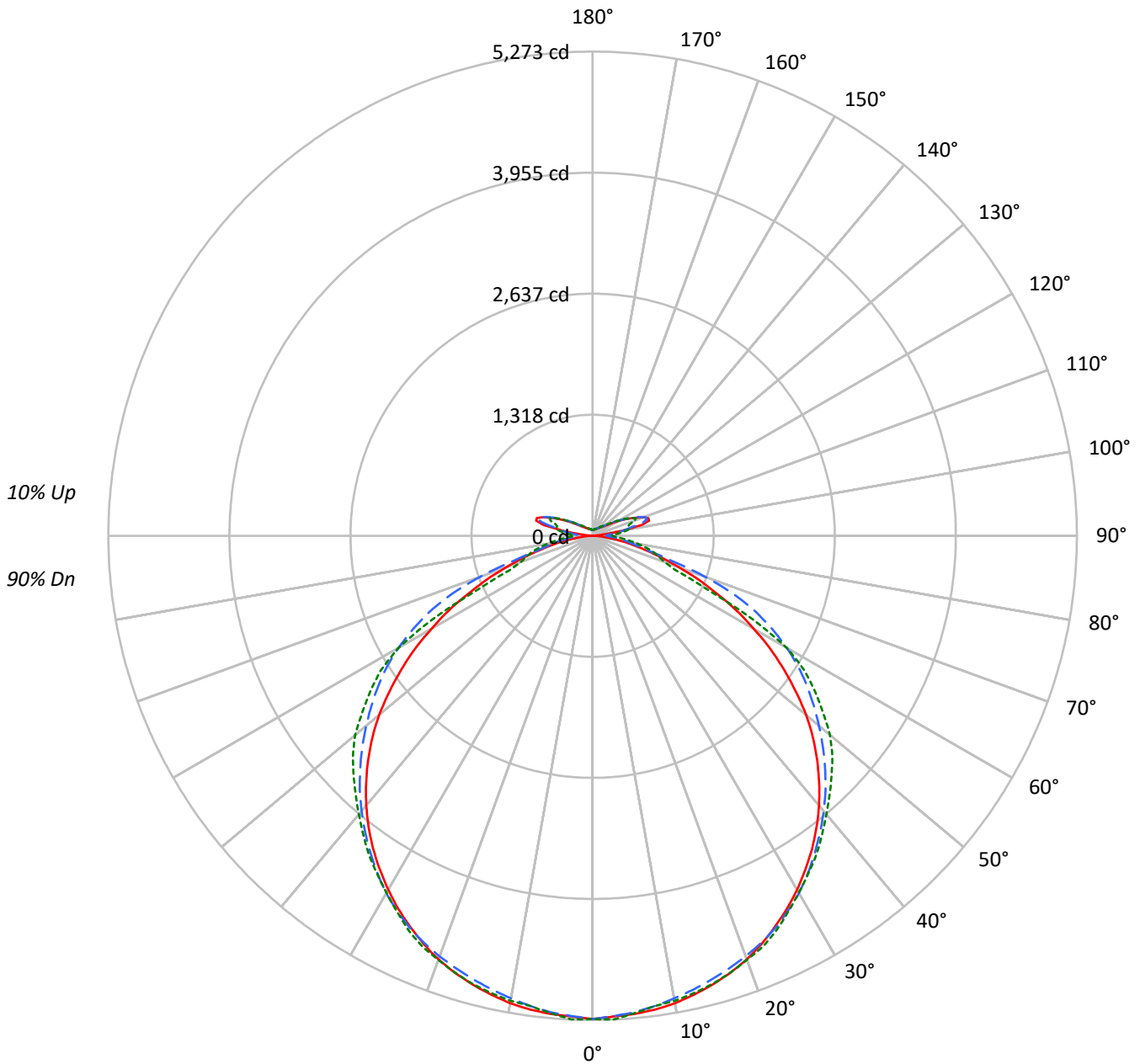
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16392.2 lumens  
Efficiency: N/A  
Efficacy: 168.5 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): 97.3  
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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	90				90				
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	78	76				76				
2	97	89	83	77	94	87	81	76	81	77	72	77	73	69	72	69	66	63				63				
3	89	79	71	64	85	76	69	63	72	66	61	68	63	58	64	60	56	54				54				
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	46				46				
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	40				40				
6	69	56	47	41	66	54	46	40	52	44	39	49	43	38	46	41	37	35				35				
7	64	51	42	36	62	49	41	36	47	40	35	45	38	34	42	37	33	31				31				
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	27				27				
9	55	42	34	29	53	41	34	28	39	33	28	38	31	27	36	30	26	24				24				
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	22				22				

**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



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	496.2	3.0
10°-20°	1422.8	8.7
20°-30°	2173.0	13.3
30°-40°	2636.6	16.1
40°-50°	2763.4	16.9
50°-60°	2504.1	15.3
60°-70°	1678.9	10.2
70°-80°	753.9	4.6
80°-90°	277.4	1.7
90°-100°	228.0	1.4
100°-110°	543.4	3.3
110°-120°	453.1	2.8
120°-130°	218.8	1.3
130°-140°	111.4	0.7
140°-150°	65.3	0.4
150°-160°	38.9	0.2
160°-170°	20.6	0.1
170°-180°	6.3	0.0
0°-30°	4091.9	25.0
0°-40°	6728.6	41.0
0°-60°	11996.0	73.2
0°-90°	14706.2	89.7
90°-120°	1224.5	7.5
90°-150°	1620.1	9.9
90°-180°	1686.0	10.3
0°-180°	16392.2	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°	4	87	158	199	212	8
95°	29	112	195	249	275	101
105°	636	642	575	428	400	603
115°	442	445	462	466	459	446
125°	216	229	243	243	243	205
135°	132	137	140	146	148	105
145°	98	101	103	105	106	63
155°	81	82	84	84	85	38
165°	71	71	72	72	72	20
175°	65	65	65	65	65	6
180°	65	65	65	65	65	



TEST NUMBER: P827081

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**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°	3.8	86.7	157.6	199.3	211.9
92.5°	10.8	77.5	151.0	194.1	209.4
95°	28.8	112.3	195.3	249.3	275.3
97.5°	167.5	219.0	277.8	324.0	345.1
100°	339.3	390.6	360.6	388.6	397.8
102.5°	545.0	545.3	438.7	410.4	406.7
105°	636.0	641.5	575.4	428.5	399.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	514.3	526.7	532.9	521.7	505.2
115°	442.1	445.1	462.1	466.2	458.7
117.5°	380.1	379.6	395.0	397.6	397.1
120°	318.1	322.8	333.7	335.5	335.3
122.5°	264.1	272.1	285.5	286.3	286.0
125°	216.3	229.1	242.7	243.0	242.7
127.5°	186.1	193.1	207.2	209.5	208.2
130°	162.1	167.8	177.7	181.7	181.7
132.5°	145.8	150.6	157.9	161.9	162.9
135°	131.8	136.6	140.4	146.2	147.9
137.5°	122.6	124.6	128.6	133.4	135.2
140°	112.6	115.6	117.8	121.9	123.7
142.5°	104.8	107.6	108.8	113.1	113.9
145°	97.8	100.6	102.6	105.4	106.1
147.5°	93.6	95.6	97.6	97.6	99.4
150°	88.6	90.6	91.6	92.6	92.6
152.5°	84.6	85.6	87.6	87.6	88.6
155°	80.6	82.4	84.4	84.4	84.6
157.5°	77.6	79.4	80.4	81.4	81.4
160°	74.6	76.4	77.4	77.4	78.4
162.5°	73.4	74.4	74.4	75.4	75.4
165°	71.4	71.4	72.4	72.4	72.4
167.5°	69.4	70.1	70.4	70.4	71.4
170°	67.4	68.4	68.4	67.6	68.6
172.5°	66.4	66.4	67.4	66.6	66.6
175°	65.4	65.4	64.6	64.8	64.8
177.5°	65.1	65.4	64.6	63.8	63.1
180°	64.6	64.6	64.6	64.6	64.6



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	636.8	648.5	624.3	496.9	425.4
110°	588.6	601.2	594.2	550.0	489.6



(END OF REPORT)