

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: P827086

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

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P827086  
REPORT IS A COMBINATION OF REPORTS P826224 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-N-UNV-L840-CD-UPL24  
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS AND 2400 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

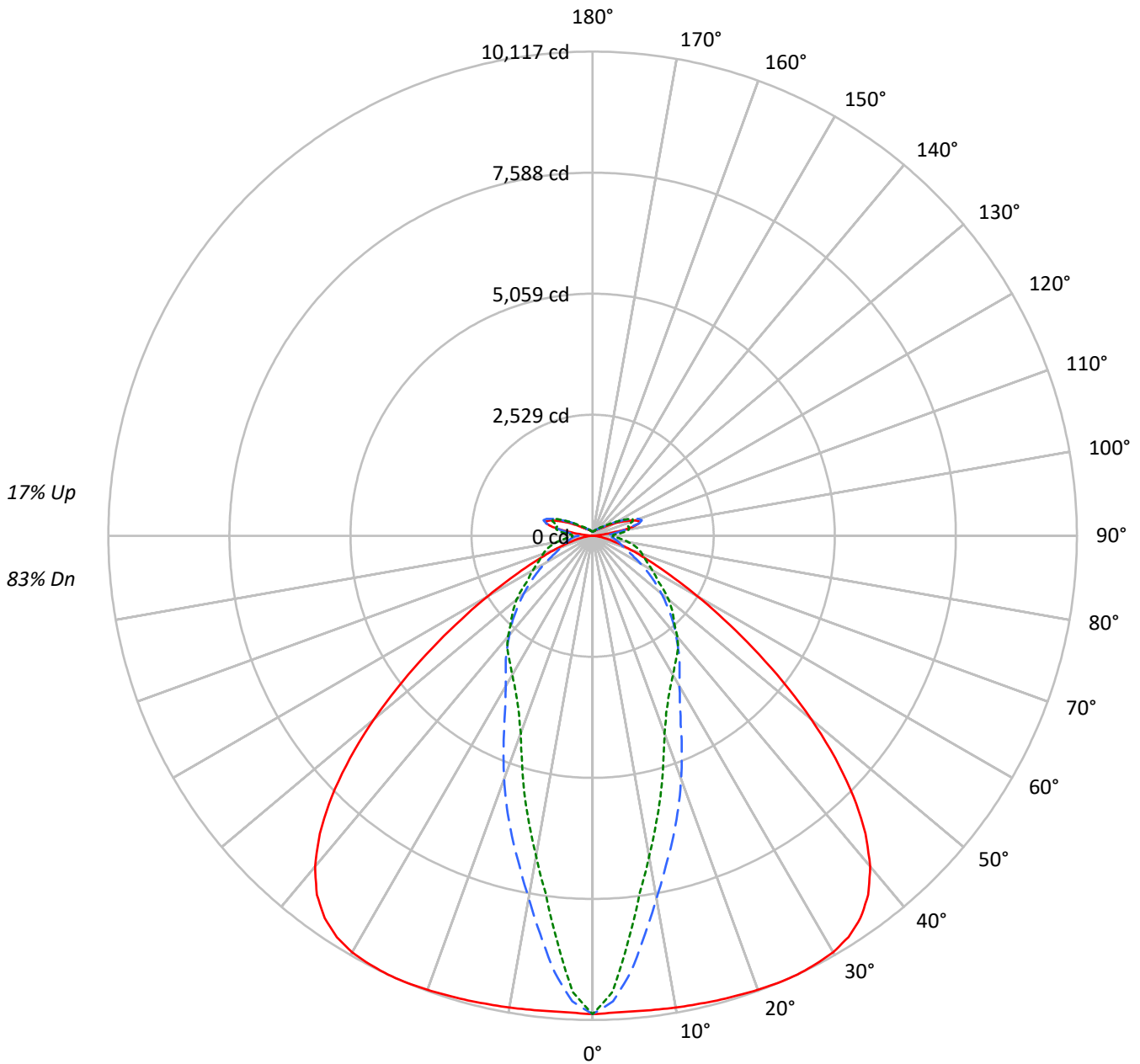
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17171.3 lumens  
Efficiency: N/A  
Efficacy: 164.5 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
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<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

TEST NUMBER: P827086

CATALOG NUMBER: OHBL-15SE-N-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	110	110	110	110	102	102	102	94	94	94	86	86	86	83																			
1	106	101	97	94	101	97	94	91	90	87	85	83	81	79	77	76	74	71																			
2	97	90	84	78	93	86	81	76	80	76	72	74	71	68	69	66	64	61																			
3	89	80	73	67	86	77	70	65	72	66	62	67	62	59	62	59	56	53																			
4	83	72	64	58	79	69	62	57	65	59	54	61	56	52	57	53	49	47																			
5	76	65	57	51	73	63	55	50	59	53	48	55	50	46	52	47	44	41																			
6	71	59	51	45	68	57	50	44	54	47	43	51	45	41	48	43	39	37																			
7	66	54	46	40	64	52	45	40	49	43	38	47	41	37	44	39	36	34																			
8	62	50	42	37	60	48	41	36	46	39	35	43	38	34	41	36	32	30																			
9	58	46	38	33	56	45	38	33	42	36	32	40	35	31	38	33	30	28																			
10	55	43	35	30	53	41	35	30	39	33	29	37	32	28	36	31	27	26																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	32516	32516	32516
5°	32040	29448	27665
10°	31996	24669	22292
15°	32207	20981	18387
20°	32682	17641	14949
25°	33354	14516	13169
30°	34012	12428	12305
35°	34182	11251	11797
40°	33026	10089	11270
45°	29802	9043	10517
50°	24593	7915	9963
55°	18204	6857	8964
60°	12355	5803	8700
65°	7980	4915	8670
70°	5161	4512	9322
75°	3313	4512	10329
80°	2013	4766	11305
85°	928	5480	13482



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	841.3	4.9
10°-20°	1979.2	11.5
20°-30°	2480.9	14.4
30°-40°	2632.5	15.3
40°-50°	2380.2	13.9
50°-60°	1725.8	10.1
60°-70°	1083.0	6.3
70°-80°	716.7	4.2
80°-90°	419.1	2.4
90°-100°	431.9	2.5
100°-110°	943.0	5.5
110°-120°	775.7	4.5
120°-130°	372.5	2.2
130°-140°	184.7	1.1
140°-150°	106.4	0.6
150°-160°	60.5	0.4
160°-170°	29.0	0.2
170°-180°	8.8	0.1
0°-30°	5301.4	30.9
0°-40°	7933.9	46.2
0°-60°	12039.9	70.1
0°-90°	14258.7	83.0
90°-120°	2150.5	12.5
90°-150°	2814.2	16.4
90°-180°	2913.0	17.0
0°-180°	17171.3	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°	5	123	293	409	419	9
95°	57	174	389	523	566	168
105°	1011	1034	1002	810	767	959
115°	702	728	806	830	827	708
125°	349	371	417	430	426	327
135°	210	215	235	250	252	166
145°	156	161	166	175	175	99
155°	127	132	135	137	135	58
165°	100	101	102	102	102	29
175°	90	91	91	92	92	9
180°	90	90	90	90	90	



TEST NUMBER: P827086

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

**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°	5.0	123.4	293.4	409.2	419.1
92.5°	18.9	119.2	299.3	419.7	442.2
95°	56.8	173.8	388.9	522.9	566.2
97.5°	273.8	346.2	516.6	653.0	697.4
100°	557.7	635.5	660.4	752.1	770.6
102.5°	859.7	893.7	790.2	783.2	782.9
105°	1010.6	1033.9	1001.9	810.3	767.0



TEST NUMBER: P827086

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

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	817.5	852.3	922.9	931.3	904.1
115°	702.5	728.5	805.5	830.2	827.0
117.5°	603.4	618.7	690.2	713.0	715.0
120°	501.4	523.8	589.9	604.9	598.9
122.5°	422.4	442.0	495.6	509.8	502.8
125°	349.4	371.2	417.2	430.5	426.5
127.5°	296.5	311.4	352.8	367.1	365.1
130°	259.5	269.4	302.2	316.5	317.5
132.5°	230.5	239.4	263.5	280.9	279.9
135°	209.5	215.4	234.8	250.1	252.1
137.5°	192.5	198.4	212.0	227.3	227.3
140°	177.5	183.4	194.1	207.5	208.5
142.5°	165.5	170.4	178.2	189.7	189.7
145°	156.4	161.4	166.3	174.9	174.9
147.5°	147.4	153.3	156.3	163.0	162.1
150°	140.4	145.3	148.3	152.1	152.2
152.5°	133.4	138.3	141.3	144.2	143.2
155°	127.4	132.3	135.2	137.2	135.3
157.5°	111.0	113.0	115.0	116.0	116.0
160°	107.0	108.0	110.0	111.0	111.0
162.5°	103.0	104.0	105.0	106.0	106.0
165°	100.0	101.0	102.0	102.0	102.0
167.5°	97.0	97.0	98.0	99.0	99.0
170°	94.0	95.0	95.0	96.0	96.0
172.5°	92.0	93.0	93.0	93.0	94.0
175°	90.0	91.0	91.0	92.0	92.0
177.5°	90.0	90.0	90.0	90.0	90.0
180°	90.0	90.0	90.0	90.0	90.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1014.6	1050.0	1077.6	916.4	801.1
110°	937.6	973.2	1025.2	983.4	892.1



(END OF REPORT)