

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: P826941

Luminaire Tested: **OHB-15SE-N-UNV-L840-CD-UPL15**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P826941  
REPORT IS A COMBINATION OF REPORTS P826092 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: OHB-15SE-N-UNV-L840-CD-UPL15  
Description: 15000 LUMEN OHB SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS AND 1500 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

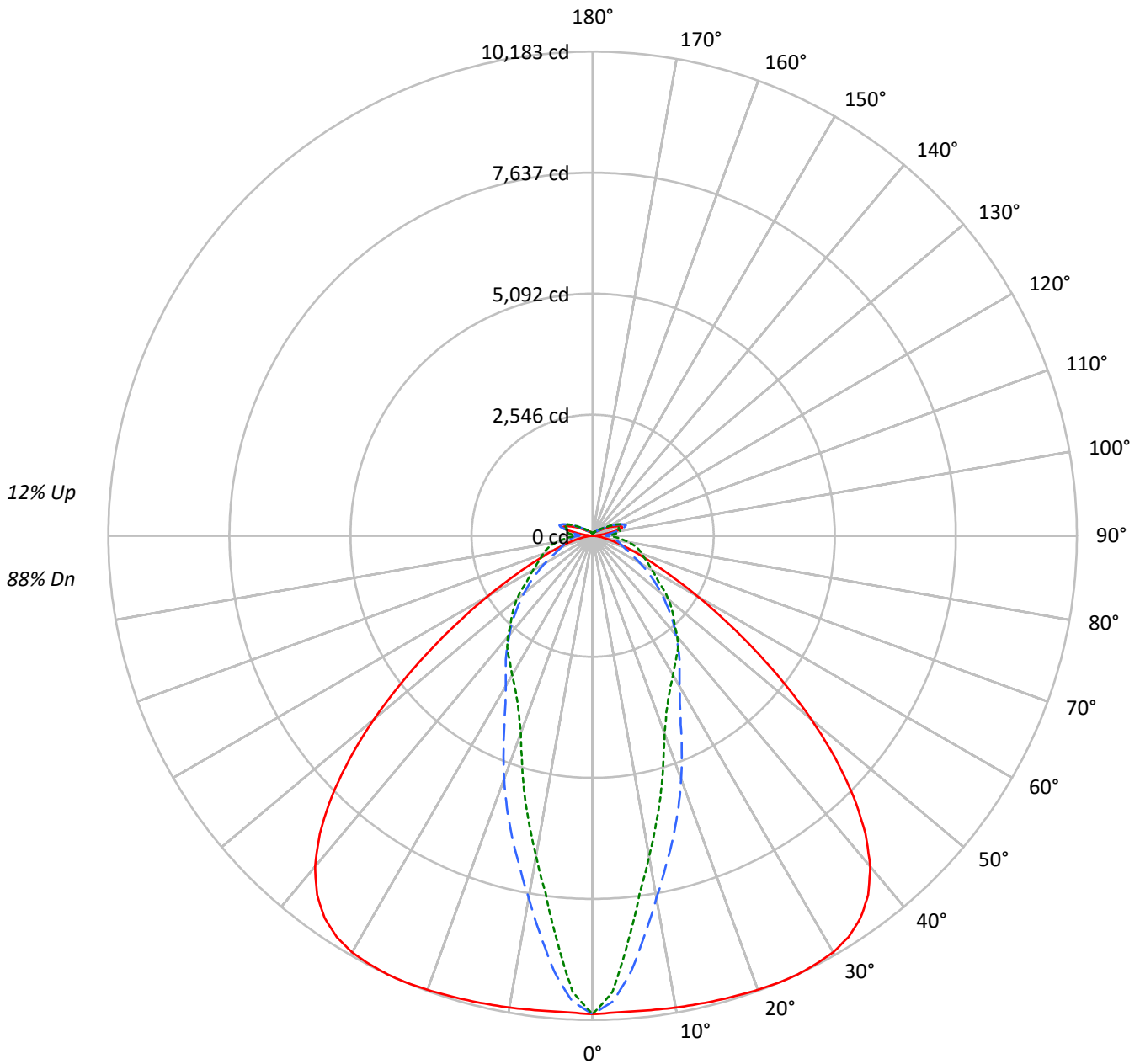
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16366.2 lumens  
Efficiency: N/A  
Efficacy: 152.4 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 0.88' x H: 0.17')  
CIE Type: Semi-Direct  
  
Input Watts (W): 107.4  
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: P826941

CATALOG NUMBER: OHB-15SE-N-UNV-L840-CD-UPL15

### 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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88																			
1	107	102	98	95	103	99	95	92	92	90	87	86	84	82	81	79	78	75																			
2	98	91	84	79	94	88	82	77	82	78	74	77	74	70	73	70	67	64																			
3	90	81	74	68	87	78	72	66	74	68	64	69	65	61	66	62	59	56																			
4	84	73	65	59	80	71	63	58	67	60	56	63	58	54	60	55	52	49																			
5	77	66	58	52	75	64	56	51	61	54	49	57	52	48	54	50	46	44																			
6	72	60	52	46	69	58	51	45	55	49	44	53	47	43	50	45	41	39																			
7	67	55	47	41	65	53	46	41	51	44	40	48	43	38	46	41	37	35																			
8	63	50	43	37	61	49	42	37	47	41	36	45	39	35	43	38	34	32																			
9	59	47	39	34	57	46	38	34	44	37	33	42	36	32	40	35	31	29																			
10	56	43	36	31	54	42	35	31	41	34	30	39	33	29	37	32	29	27																			

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

	0°	45°	90°
0°	64008	64008	64008
5°	63073	57820	54261
10°	62985	48316	43561
15°	63402	40990	35797
20°	64336	34375	28989
25°	65659	28211	25434
30°	66954	24087	23661
35°	67290	21742	22576
40°	65013	19434	21454
45°	58668	17358	19900
50°	48413	15132	18719
55°	35836	13050	16700
60°	24323	10983	16039
65°	15708	9240	15766
70°	10160	8410	16632
75°	6520	8312	17915
80°	3963	8630	18683
85°	1827	9654	20102



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	846.8	5.2
10°-20°	1992.1	12.2
20°-30°	2497.0	15.3
30°-40°	2649.6	16.2
40°-50°	2395.7	14.6
50°-60°	1737.0	10.6
60°-70°	1090.1	6.7
70°-80°	721.4	4.4
80°-90°	419.4	2.6
90°-100°	347.0	2.1
100°-110°	643.6	3.9
110°-120°	519.3	3.2
120°-130°	249.6	1.5
130°-140°	123.1	0.8
140°-150°	70.8	0.4
150°-160°	39.8	0.2
160°-170°	18.3	0.1
170°-180°	5.6	0.0
0°-30°	5335.9	32.6
0°-40°	7985.6	48.8
0°-60°	12118.3	74.0
0°-90°	14349.2	87.7
90°-120°	1509.9	9.2
90°-150°	1953.4	11.9
90°-180°	2017.0	12.3
0°-180°	16366.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10060	10060	10060	10060	10060	
5°	10040	9782	9208	8780	8559	960
15°	10116	8245	6549	5824	5560	2869
25°	10183	6376	4385	3892	3768	4704
35°	9818	4238	3182	3083	3082	6104
45°	7762	2685	2306	2362	2402	5913
55°	4109	1664	1505	1632	1691	3713
65°	1470	965	871	1116	1241	1529
75°	454	520	585	909	963	506
85°	80	215	428	596	547	95
90°	3	112	277	388	395	7
95°	32	135	325	439	475	103
105°	641	666	691	587	561	607
115°	446	466	547	572	566	451
125°	222	238	284	296	294	209
135°	135	140	156	171	172	107
145°	102	105	109	119	118	65
155°	84	88	91	92	91	38
165°	63	63	64	64	64	18
175°	57	57	57	58	58	6
180°	57	57	57	57	57	



TEST NUMBER: P826941

CATALOG NUMBER: OHB-15SE-N-UNV-L840-CD-UPL15

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10059.6	10059.6	10059.6	10059.6	10059.6
2.5°	10038.6	9981.1	9802.1	9692.9	9601.0
5°	10039.5	9782.0	9207.5	8780.5	8559.4
7.5°	10053.9	9481.4	8446.4	7823.1	7579.9
10°	10075.9	9108.9	7736.0	7071.5	6844.6
12.5°	10092.2	8689.6	7110.8	6428.1	6179.2
15°	10116.1	8245.3	6548.8	5824.0	5559.8
17.5°	10138.1	7826.9	5993.5	5236.1	4942.2
20°	10160.2	7376.0	5438.2	4657.9	4415.6
22.5°	10181.2	6900.1	4896.3	4208.8	4043.2
25°	10183.1	6375.5	4385.0	3891.9	3768.4
27.5°	10158.2	5831.7	3970.4	3626.7	3550.1
30°	10115.2	5304.1	3648.7	3435.2	3380.7
32.5°	10007.9	4766.0	3399.8	3250.4	3218.9
35°	9818.4	4238.5	3182.5	3082.9	3081.9
37.5°	9519.6	3770.3	2946.9	2929.7	2950.8
40°	9078.3	3360.6	2723.9	2769.8	2769.8
42.5°	8489.5	3004.4	2521.8	2568.8	2556.3
45°	7761.8	2684.6	2306.4	2362.0	2402.2
47.5°	6918.3	2403.1	2086.2	2193.5	2249.0
50°	6001.1	2135.1	1885.2	2022.1	2085.3
52.5°	5039.9	1887.1	1688.9	1845.9	1896.7
55°	4109.3	1664.0	1505.1	1632.4	1690.8
57.5°	3266.7	1451.5	1325.1	1445.7	1566.3
60°	2542.0	1268.6	1155.6	1327.9	1448.6
62.5°	1941.7	1105.8	996.7	1217.8	1338.5
65°	1469.6	965.1	871.3	1116.4	1240.8
67.5°	1107.7	843.5	773.6	1042.6	1164.2
70°	832.0	725.7	695.1	996.7	1105.8
72.5°	614.7	617.5	632.9	956.5	1039.8
75°	453.8	519.9	585.0	908.6	963.2
77.5°	324.6	430.8	541.9	851.1	870.3
80°	225.0	351.4	496.9	775.5	759.2
82.5°	140.7	281.5	456.7	692.2	647.2
85°	79.5	215.4	428.0	595.5	546.7
87.5°	35.4	160.8	374.4	464.3	433.7
90°	3.0	112.0	277.0	387.5	395.3
92.5°	11.9	102.7	274.8	383.8	403.4
95°	31.8	135.2	325.3	438.8	475.2
97.5°	170.8	242.5	408.9	510.7	540.2
100°	342.7	413.8	487.6	567.7	584.3
102.5°	548.7	570.0	560.3	578.7	580.4
105°	640.7	666.1	690.9	586.6	561.4



TEST NUMBER: P826941

CATALOG NUMBER: OHB-15SE-N-UNV-L840-CD-UPL15

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	518.6	548.6	626.7	640.3	627.1
115°	446.5	465.7	547.2	572.0	565.9
117.5°	385.5	397.9	469.8	491.8	490.7
120°	323.5	339.0	397.4	415.5	414.5
122.5°	269.5	285.1	338.0	351.3	349.3
125°	222.5	238.3	283.6	295.9	294.0
127.5°	190.5	199.4	239.0	252.4	249.5
130°	166.5	173.4	202.4	216.8	216.8
132.5°	148.6	154.5	176.7	191.1	192.1
135°	134.6	140.5	155.9	171.3	172.3
137.5°	124.6	129.4	141.1	154.6	155.6
140°	114.6	119.5	128.2	140.7	141.7
142.5°	108.5	111.5	117.3	128.9	128.9
145°	102.5	105.4	109.4	119.0	118.1
147.5°	97.5	101.4	104.4	109.1	109.2
150°	92.5	97.4	98.4	102.2	101.3
152.5°	88.5	92.4	94.4	96.3	96.3
155°	84.5	88.4	91.3	92.3	91.4
157.5°	70.0	71.0	72.0	73.0	73.0
160°	67.0	68.0	69.0	69.0	70.0
162.5°	65.0	66.0	66.0	67.0	67.0
165°	63.0	63.0	64.0	64.0	64.0
167.5°	61.0	61.0	62.0	62.0	63.0
170°	59.0	60.0	60.0	60.0	61.0
172.5°	58.0	58.0	59.0	59.0	59.0
175°	57.0	57.0	57.0	58.0	58.0
177.5°	56.0	57.0	57.0	57.0	57.0
180°	57.0	57.0	57.0	57.0	57.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	640.7	673.3	732.5	640.6	574.3
110°	592.6	624.4	696.1	680.5	625.2



(END OF REPORT)