

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: P827079

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827079  
REPORT IS A COMBINATION OF REPORTS P826113 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-A-UNV-L840-CD-UPL15  
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS AND 1500 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

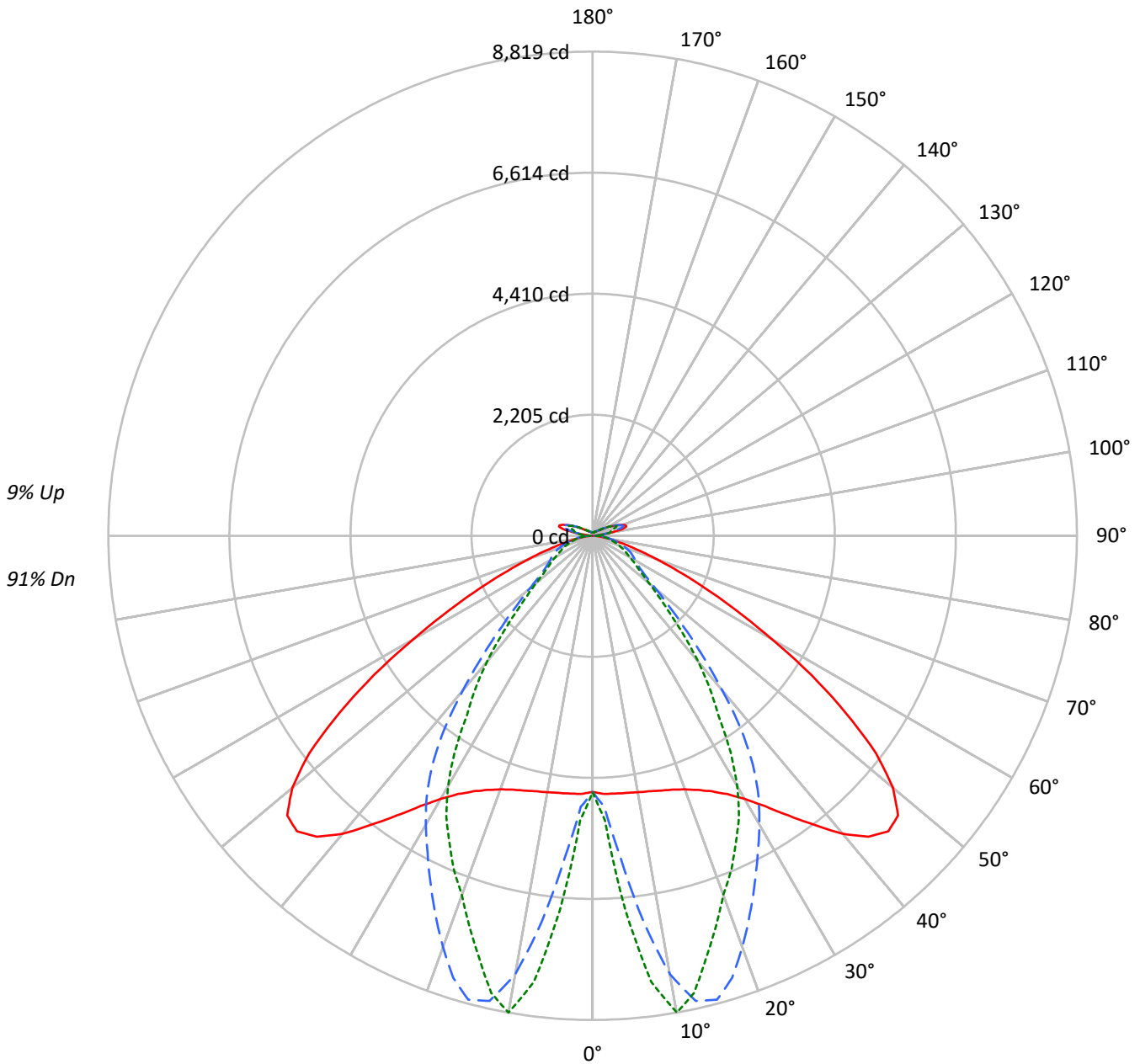
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16495.2 lumens  
Efficiency: N/A  
Efficacy: 169.5 lumens/watt  
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')  
CIE Type: 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									
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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91																			
1	108	104	101	98	105	101	98	95	95	93	91	90	88	86	85	84	82	80																			
2	100	93	87	83	97	91	85	81	86	81	78	81	78	75	77	74	72	69																			
3	93	84	77	71	90	81	75	70	77	72	68	73	69	65	70	66	63	61																			
4	86	75	68	62	83	73	66	61	70	64	59	67	62	58	64	59	56	54																			
5	80	68	60	55	77	67	59	54	64	57	53	61	55	51	58	54	50	48																			
6	74	62	54	49	72	61	53	48	58	52	47	56	50	46	53	49	45	43																			
7	69	57	49	44	67	56	48	43	53	47	42	51	46	41	49	44	40	39																			
8	65	52	45	39	63	51	44	39	49	43	38	47	42	38	46	41	37	35																			
9	60	48	41	36	59	47	40	35	46	39	35	44	38	34	42	37	34	32																			
10	57	45	38	33	55	44	37	32	42	36	32	41	35	31	40	34	31	29																			

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

	0°	45°	90°
0°	15183	15183	15183
5°	15142	18991	22257
10°	15159	26039	28909
15°	15400	28209	26534
20°	15909	26026	23713
25°	16930	23269	21690
30°	18714	20823	19287
35°	21797	18104	15369
40°	25943	13687	12232
45°	29423	9249	8706
50°	29445	6285	6439
55°	25105	4892	5260
60°	18414	4518	4733
65°	12336	4457	4483
70°	7655	4205	4341
75°	4415	3774	4154
80°	2439	3162	4287
85°	1051	2497	3974



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	609.3	3.7
10°-20°	2150.4	13.0
20°-30°	3168.8	19.2
30°-40°	3329.9	20.2
40°-50°	2548.0	15.4
50°-60°	1538.6	9.3
60°-70°	938.9	5.7
70°-80°	512.5	3.1
80°-90°	183.7	1.1
90°-100°	145.6	0.9
100°-110°	504.6	3.1
110°-120°	433.6	2.6
120°-130°	208.1	1.3
130°-140°	104.0	0.6
140°-150°	60.4	0.4
150°-160°	35.2	0.2
160°-170°	18.3	0.1
170°-180°	5.6	0.0
0°-30°	5928.4	35.9
0°-40°	9258.3	56.1
0°-60°	13344.8	80.9
0°-90°	14979.9	90.8
90°-120°	1083.8	6.6
90°-150°	1456.3	8.8
90°-180°	1515.0	9.2
0°-180°	16495.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4667	4667	4667	4667	4667	
5°	4714	5057	5900	6587	6842	451
15°	4806	7485	8748	8163	7971	1366
25°	5135	8687	6984	6323	6167	2400
35°	6220	6957	5088	4237	3989	3946
45°	7613	3970	2344	2062	1976	5752
55°	5630	1346	1067	989	986	4975
65°	2257	852	785	672	637	2313
75°	601	530	486	401	385	692
85°	90	164	194	176	160	111
90°	3	22	29	38	43	7
95°	28	72	107	142	165	100
105°	633	624	532	376	345	599
115°	436	436	440	438	429	440
125°	211	223	229	227	226	199
135°	125	129	132	134	135	99
145°	91	93	95	97	97	58
155°	73	74	76	76	77	34
165°	63	63	64	64	64	18
175°	57	57	57	58	58	6
180°	57	57	57	57	57	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4666.9	4666.9	4666.9	4666.9	4666.9
2.5°	4705.2	4753.2	4942.5	5139.0	5186.9
5°	4713.8	5057.2	5899.5	6587.3	6841.5
7.5°	4723.8	5549.7	7085.2	7927.4	8196.9
10°	4742.8	6172.5	8112.7	8717.3	8819.1
12.5°	4766.4	6832.3	8678.0	8656.0	8527.6
15°	4805.6	7484.9	8747.7	8162.9	7971.0
17.5°	4846.8	8037.0	8443.9	7626.2	7459.1
20°	4913.9	8446.9	7971.4	7149.1	6959.2
22.5°	5010.5	8672.2	7475.9	6717.6	6593.7
25°	5135.2	8686.9	6983.8	6322.8	6166.7
27.5°	5302.3	8485.3	6512.1	5935.9	5771.0
30°	5529.7	8099.5	6073.8	5469.4	5264.9
32.5°	5838.5	7544.1	5621.9	4906.3	4676.9
35°	6220.3	6956.6	5087.8	4237.1	3989.3
37.5°	6637.0	6304.2	4439.6	3644.5	3500.2
40°	7085.2	5631.9	3671.3	3089.9	2986.7
42.5°	7435.1	4901.1	2957.7	2567.8	2457.9
45°	7613.4	3969.5	2343.7	2062.3	1975.6
47.5°	7543.9	3081.3	1858.0	1638.6	1612.6
50°	7138.7	2275.2	1487.3	1349.8	1339.0
52.5°	6505.1	1695.9	1228.6	1143.5	1124.9
55°	5630.3	1346.0	1066.9	988.8	985.8
57.5°	4727.2	1143.5	968.4	908.0	887.0
60°	3763.8	1019.6	893.8	825.5	782.9
62.5°	2950.3	933.0	838.9	746.3	706.4
65°	2257.2	852.1	784.9	671.6	637.4
67.5°	1682.7	775.1	718.9	593.2	573.2
70°	1226.0	696.0	643.6	527.5	511.7
72.5°	873.7	617.2	568.4	465.9	448.5
75°	601.0	529.9	486.1	401.1	384.8
77.5°	405.5	440.9	405.1	342.4	335.6
80°	270.8	349.6	327.6	290.2	286.0
82.5°	164.3	253.8	258.6	235.9	224.5
85°	89.5	164.3	193.7	176.5	160.1
87.5°	35.0	91.1	133.5	119.9	112.9
90°	3.0	22.0	29.0	38.0	43.0
92.5°	10.0	28.0	46.0	64.0	74.0
95°	28.0	72.0	107.0	142.0	165.0
97.5°	166.0	187.0	204.0	235.0	253.0
100°	337.0	364.0	299.0	314.0	321.0
102.5°	542.0	524.0	387.0	348.0	342.0
105°	633.0	624.0	532.0	376.0	345.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	509.0	516.0	507.0	489.0	471.0
115°	436.0	436.0	440.0	438.0	429.0
117.5°	374.0	372.0	376.0	374.0	372.0
120°	312.0	316.0	317.0	315.0	314.0
122.5°	258.0	266.0	271.0	268.0	267.0
125°	211.0	223.0	229.0	227.0	226.0
127.5°	180.0	187.0	195.0	195.0	193.0
130°	156.0	161.0	167.0	168.0	168.0
132.5°	139.0	143.0	148.0	149.0	150.0
135°	125.0	129.0	132.0	134.0	135.0
137.5°	115.0	117.0	121.0	122.0	123.0
140°	105.0	108.0	111.0	112.0	113.0
142.5°	98.0	100.0	102.0	104.0	104.0
145°	91.0	93.0	95.0	97.0	97.0
147.5°	86.0	88.0	90.0	90.0	91.0
150°	81.0	83.0	84.0	85.0	85.0
152.5°	77.0	78.0	80.0	80.0	81.0
155°	73.0	74.0	76.0	76.0	77.0
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°	633.0	634.0	587.0	452.0	379.0
110°	584.0	589.0	563.0	512.0	450.0



(END OF REPORT)