

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: P829857

Luminaire Tested: **OHBL-15SE-NL-UNV-L840-CD**

Issue Date: 5/3/2024



**Test Information**

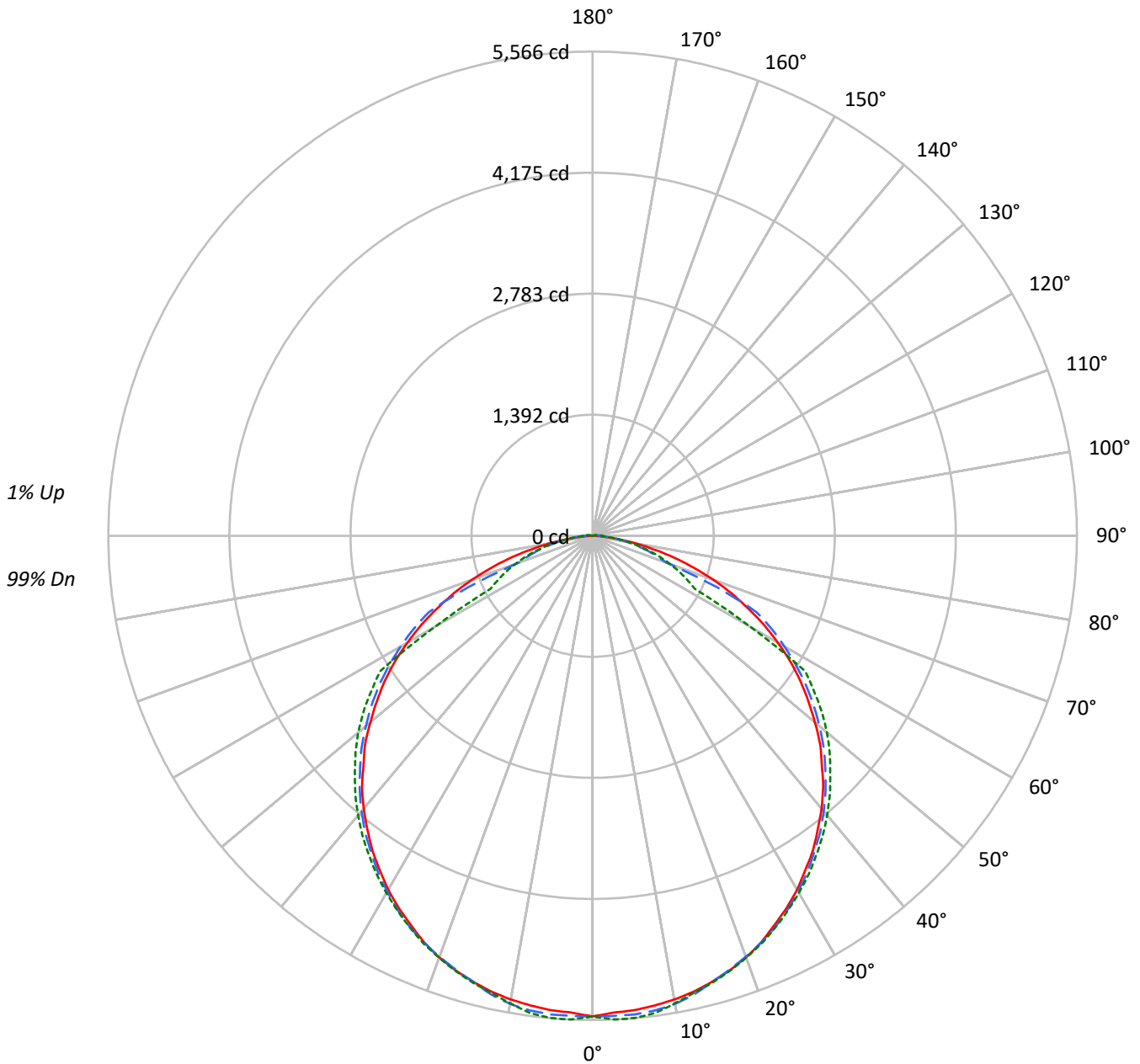
Test Method: LM-79-08  
Report Number: P829857  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-15SE-NL-UNV-L840-CD  
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15512.9 lumens  
Efficiency: N/A  
Efficacy: 178.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular (W 0.88' x L: 3.78' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 87  
Input Voltage (V): NR  
Input Current (Ain): 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102					99															
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86					84															
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73					71															
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62					60															
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53					51															
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46					44															
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32					30															
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26					25															

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

	0°	45°	90°
0°	17976	17976	17976
5°	17876	18038	18174
10°	17881	18051	18029
15°	17878	17875	17914
20°	17854	17827	17871
25°	17732	17822	17836
30°	17650	17741	17810
35°	17535	17631	17797
40°	17384	17549	17808
45°	17133	17392	17771
50°	16875	17219	17788
55°	16552	16981	17592
60°	15998	16565	13696
65°	15136	16016	9218
70°	13999	8502	8945
75°	12210	8080	8542
80°	9390	7412	7829
85°	4741	7492	7671



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	524.9	3.4
10°-20°	1503.0	9.7
20°-30°	2287.0	14.7
30°-40°	2780.6	17.9
40°-50°	2923.7	18.8
50°-60°	2669.7	17.2
60°-70°	1711.4	11.0
70°-80°	808.4	5.2
80°-90°	224.2	1.4
90°-100°	59.4	0.4
100°-110°	16.2	0.1
110°-120°	4.5	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4314.9	27.8
0°-40°	7095.5	45.7
0°-60°	12688.9	81.8
0°-90°	15432.8	99.5
90°-120°	80.1	0.5
90°-150°	80.1	0.5
90°-180°	80.0	0.5
0°-180°	15512.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5525	5525	5525	5525	5525	
5°	5474	5495	5523	5554	5565	521
15°	5308	5348	5307	5315	5319	1499
25°	4940	4947	4965	4973	4969	2279
35°	4415	4389	4439	4494	4481	2759
45°	3724	3717	3780	3869	3863	2878
55°	2918	2896	2994	3094	3102	2603
65°	1966	1966	2080	1194	1197	1949
75°	971	990	643	677	680	1024
85°	127	161	201	217	206	188
90°	0	54	89	106	104	6
95°	3	28	64	86	86	2
105°	5	11	16	16	15	5
115°	5	7	10	7	1	3
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5525.3	5525.3	5525.3	5525.3	5525.3
2.5°	5486.5	5505.0	5525.3	5551.5	5566.0
5°	5473.9	5495.3	5523.4	5553.5	5565.1
7.5°	5446.8	5476.8	5504.0	5525.3	5532.1
10°	5412.8	5448.8	5464.3	5462.3	5457.5
12.5°	5367.3	5405.1	5400.3	5377.9	5381.8
15°	5308.1	5347.9	5307.2	5314.9	5318.8
17.5°	5238.3	5277.1	5229.6	5245.1	5246.1
20°	5156.9	5186.0	5149.1	5161.8	5161.8
22.5°	5059.0	5079.3	5063.8	5072.6	5074.5
25°	4939.7	4947.4	4964.9	4972.7	4968.8
27.5°	4825.4	4815.6	4849.6	4868.0	4858.2
30°	4698.3	4682.8	4722.5	4752.6	4741.0
32.5°	4552.9	4543.2	4588.8	4624.6	4617.8
35°	4415.2	4389.0	4439.4	4493.7	4481.1
37.5°	4252.3	4236.8	4294.0	4351.3	4344.5
40°	4093.3	4067.1	4132.1	4200.0	4193.2
42.5°	3922.7	3891.6	3962.4	4043.9	4036.1
45°	3723.9	3717.1	3780.1	3869.3	3862.6
47.5°	3547.5	3513.6	3601.7	3688.1	3695.9
50°	3334.1	3321.6	3402.1	3506.8	3514.5
52.5°	3125.8	3117.1	3201.3	3307.0	3320.6
55°	2918.2	2896.0	2993.9	3093.8	3101.6
57.5°	2696.3	2673.0	2772.9	2881.5	2897.9
60°	2458.7	2436.4	2545.9	2646.8	2104.9
62.5°	2221.2	2205.7	2320.1	1643.4	1324.4
65°	1966.2	1966.2	2080.5	1193.5	1197.4
67.5°	1727.7	1712.2	1551.3	1072.2	1072.2
70°	1471.7	1477.6	893.8	939.5	940.4
72.5°	1214.8	1236.2	771.8	808.5	810.5
75°	971.4	989.9	642.8	676.7	679.6
77.5°	713.6	548.7	516.7	543.0	543.9
80°	501.2	346.1	395.6	420.7	417.9
82.5°	292.7	242.3	289.9	308.3	307.3
85°	127.0	160.9	200.7	217.2	205.5
87.5°	40.6	99.9	125.0	134.8	133.7
90°	0.0	54.3	89.2	105.6	103.8
92.5°	0.0	42.6	77.6	97.0	97.9
95°	2.9	28.1	64.1	86.3	86.3
97.5°	2.0	20.3	45.6	67.8	69.8
100°	2.0	16.4	30.1	48.4	49.5
102.5°	4.8	13.5	18.4	31.0	32.0
105°	4.8	10.7	15.5	15.5	14.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	5.9	7.8	10.7	7.8	0.9
115°	4.8	6.8	9.6	6.8	0.9
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	4.8	9.6	13.5	8.7	2.9
110°	5.9	8.7	11.6	7.8	0.9



(END OF REPORT)