

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: P829858

Luminaire Tested: **OHBL-15SE-NL-UNV-L850-CD**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P829858  
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-L850-CD  
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

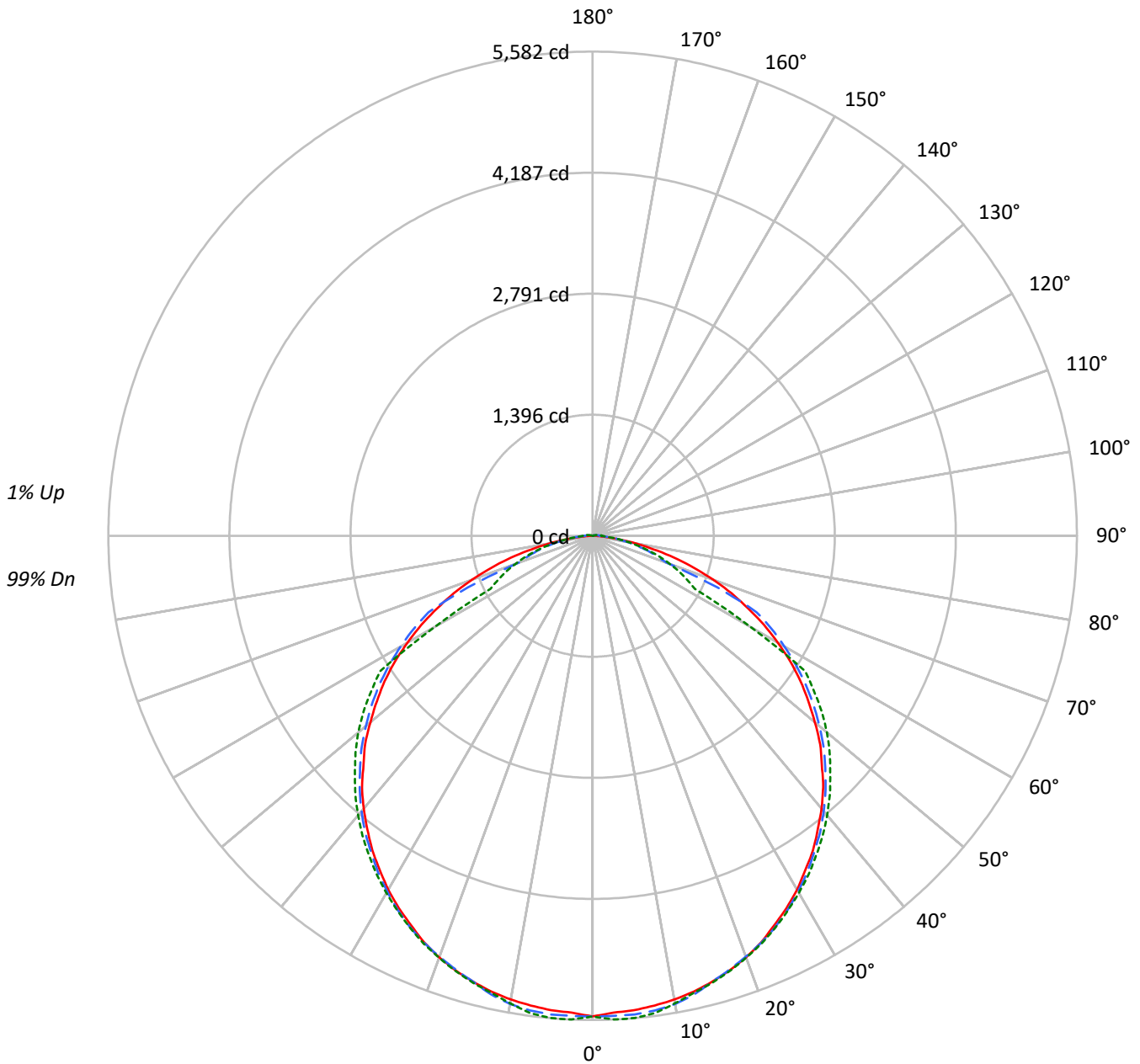
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15558.0 lumens  
Efficiency: N/A  
Efficacy: 178.8 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 (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	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°	18028	18028	18028
5°	17928	18090	18227
10°	17933	18104	18081
15°	17930	17927	17966
20°	17906	17879	17922
25°	17783	17874	17888
30°	17701	17792	17862
35°	17586	17683	17849
40°	17434	17600	17860
45°	17183	17442	17823
50°	16924	17269	17839
55°	16600	17031	17643
60°	16044	16613	13736
65°	15180	16063	9244
70°	14040	8527	8972
75°	12247	8103	8568
80°	9418	7432	7852
85°	4752	7514	7693



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	526.4	3.4
10°-20°	1507.4	9.7
20°-30°	2293.6	14.7
30°-40°	2788.7	17.9
40°-50°	2932.2	18.8
50°-60°	2677.4	17.2
60°-70°	1716.4	11.0
70°-80°	810.8	5.2
80°-90°	224.8	1.4
90°-100°	59.5	0.4
100°-110°	16.3	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°	4327.4	27.8
0°-40°	7116.1	45.7
0°-60°	12725.7	81.8
0°-90°	15477.6	99.5
90°-120°	80.4	0.5
90°-150°	80.4	0.5
90°-180°	80.0	0.5
0°-180°	15558.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5541	5541	5541	5541	5541	
5°	5490	5511	5539	5570	5581	522
15°	5324	5363	5323	5330	5334	1503
25°	4954	4962	4979	4987	4983	2286
35°	4428	4402	4452	4507	4494	2767
45°	3735	3728	3791	3881	3874	2887
55°	2927	2904	3003	3103	3110	2610
65°	1972	1972	2087	1197	1201	1955
75°	974	993	645	679	682	1027
85°	127	161	201	218	206	188
90°	0	54	90	106	104	6
95°	3	28	64	87	87	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°	5541.4	5541.4	5541.4	5541.4	5541.4
2.5°	5502.4	5521.0	5541.4	5567.6	5582.1
5°	5489.8	5511.2	5539.4	5569.6	5581.2
7.5°	5462.6	5492.7	5519.9	5541.4	5548.2
10°	5428.5	5464.6	5480.1	5478.2	5473.3
12.5°	5382.8	5420.8	5416.0	5393.5	5397.4
15°	5323.5	5363.4	5322.6	5330.3	5334.2
17.5°	5253.5	5292.4	5244.8	5260.3	5261.4
20°	5171.9	5201.0	5164.1	5176.7	5176.7
22.5°	5073.7	5094.1	5078.5	5087.3	5089.2
25°	4954.1	4961.8	4979.3	4987.1	4983.2
27.5°	4839.4	4829.6	4863.7	4882.1	4872.3
30°	4711.9	4696.4	4736.2	4766.4	4754.8
32.5°	4566.1	4556.4	4602.1	4638.0	4631.2
35°	4428.0	4401.8	4452.3	4506.8	4494.1
37.5°	4264.7	4249.1	4306.4	4363.9	4357.1
40°	4105.2	4078.9	4144.1	4212.1	4205.4
42.5°	3934.1	3902.9	3973.9	4055.7	4047.9
45°	3734.7	3727.9	3791.1	3880.6	3873.8
47.5°	3557.8	3523.8	3612.2	3698.8	3706.6
50°	3343.8	3331.3	3412.0	3517.0	3524.7
52.5°	3134.8	3126.1	3210.6	3316.6	3330.2
55°	2926.7	2904.4	3002.6	3102.7	3110.5
57.5°	2704.1	2680.8	2780.9	2889.8	2906.3
60°	2465.8	2443.5	2553.3	2654.5	2111.0
62.5°	2227.6	2212.1	2326.8	1648.1	1328.3
65°	1971.9	1971.9	2086.6	1196.9	1200.8
67.5°	1732.7	1717.2	1555.8	1075.4	1075.4
70°	1476.0	1481.9	896.4	942.2	943.2
72.5°	1218.3	1239.8	774.0	810.9	812.8
75°	974.3	992.8	644.6	678.7	681.6
77.5°	715.7	550.3	518.2	544.6	545.5
80°	502.7	347.1	396.7	422.0	419.1
82.5°	293.6	243.1	290.7	309.2	308.2
85°	127.3	161.4	201.3	217.8	206.1
87.5°	40.8	100.2	125.4	135.2	134.1
90°	0.0	54.5	89.5	105.9	104.1
92.5°	0.0	42.7	77.8	97.3	98.2
95°	2.9	28.2	64.2	86.6	86.6
97.5°	2.0	20.4	45.7	68.0	70.0
100°	2.0	16.5	30.2	48.6	49.6
102.5°	4.8	13.6	18.4	31.1	32.1
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	9.7	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	9.7	13.6	8.8	2.9
110°	5.9	8.8	11.6	7.8	0.9



(END OF REPORT)