

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: P829846

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829846  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-15SE-N-UNV-L850-CD  
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

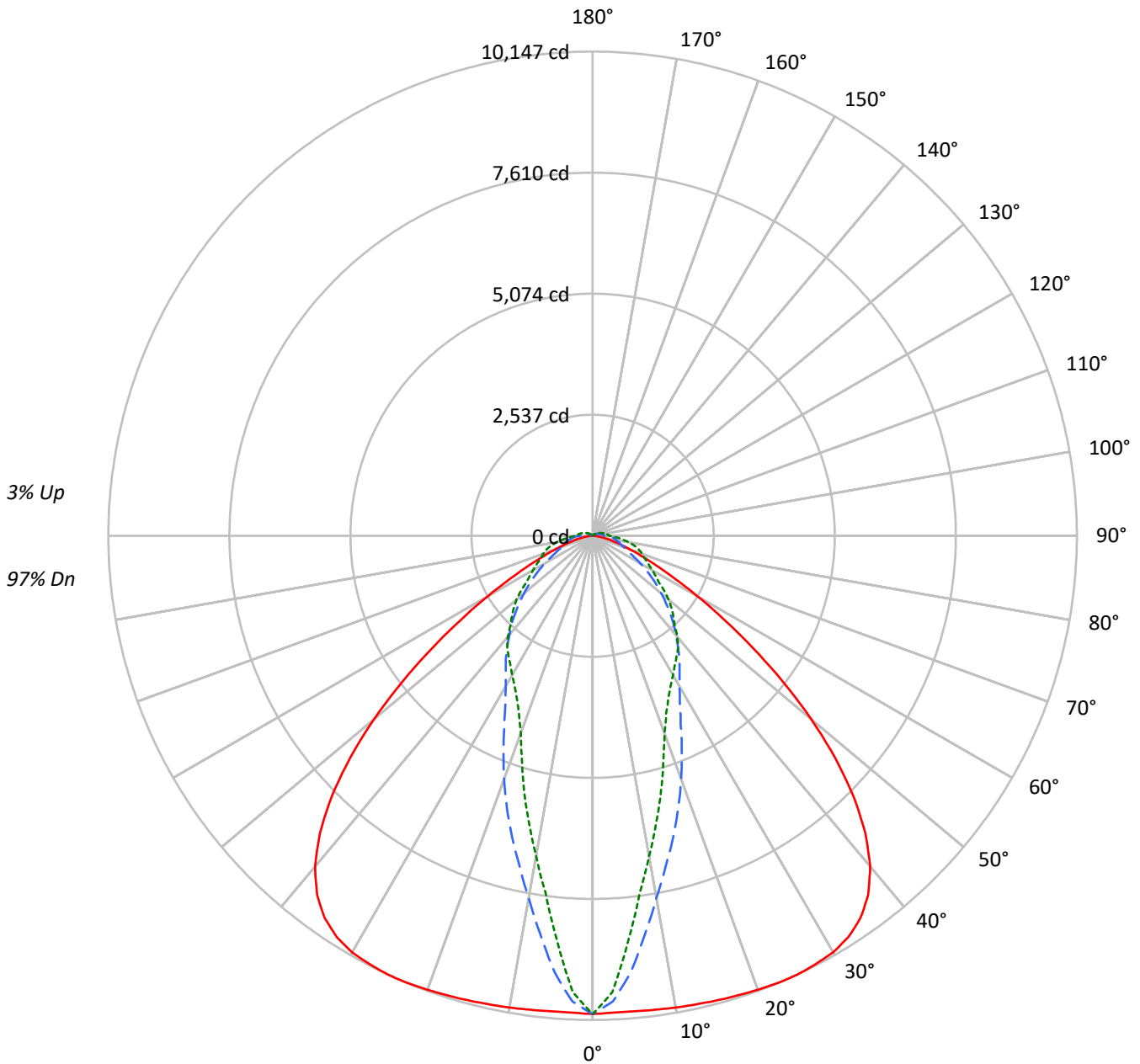
Lumens per Lamp: N/A  
Luminaire Lumens: 14794.0 lumens  
Efficiency: N/A  
Efficacy: 170.0 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')  
CIE Type: Direct

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				20				
RC	80				70				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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	85	82
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	73	71
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	64	62
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	56	54
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	50	48
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	45	43
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	41	39
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	37	35
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	34	32
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	30

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

	0°	45°	90°
0°	32610	32610	32610
5°	32544	29534	27396
10°	32911	24741	21798
15°	33554	21043	17753
20°	34497	17692	14245
25°	35690	14558	12379
30°	36923	12464	11401
35°	37692	11284	10761
40°	37047	10118	10106
45°	34081	9069	9250
50°	28754	7938	8570
55°	21849	6877	7512
60°	15311	5820	7062
65°	10299	4929	6757
70°	7034	4525	6880
75°	4881	4525	7050
80°	3360	4779	6812
85°	1966	5496	6399



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	843.8	5.7
10°-20°	1985.0	13.4
20°-30°	2488.1	16.8
30°-40°	2640.2	17.8
40°-50°	2387.1	16.1
50°-60°	1730.8	11.7
60°-70°	1086.2	7.3
70°-80°	718.8	4.9
80°-90°	414.1	2.8
90°-100°	200.6	1.4
100°-110°	138.5	0.9
110°-120°	85.4	0.6
120°-130°	41.4	0.3
130°-140°	19.0	0.1
140°-150°	10.4	0.1
150°-160°	4.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	5316.9	35.9
0°-40°	7957.1	53.8
0°-60°	12075.0	81.6
0°-90°	14294.1	96.6
90°-120°	424.5	2.9
90°-150°	495.3	3.3
90°-180°	500.0	3.4
0°-180°	14794.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10024	10024	10024	10024	10024	
5°	10004	9747	9175	8749	8529	956
15°	10080	8216	6525	5803	5540	2859
25°	10147	6353	4369	3878	3755	4688
35°	9783	4223	3171	3072	3071	6082
45°	7734	2675	2298	2354	2394	5892
55°	4095	1658	1500	1627	1685	3700
65°	1464	962	868	1112	1236	1524
75°	452	518	583	905	960	504
85°	79	215	426	593	545	95
90°	0	90	247	348	351	5
95°	4	63	218	296	309	3
105°	8	42	158	210	216	8
115°	10	30	107	134	136	10
125°	11	15	54	69	68	10
135°	10	11	24	37	37	7
145°	11	12	14	22	21	7
155°	11	14	15	16	14	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10023.7	10023.7	10023.7	10023.7	10023.7
2.5°	10002.7	9945.5	9767.1	9658.3	9566.8
5°	10003.7	9747.1	9174.7	8749.2	8528.8
7.5°	10018.0	9447.5	8416.2	7795.2	7552.9
10°	10039.9	9076.4	7708.4	7046.3	6820.2
12.5°	10056.2	8658.5	7085.4	6405.2	6157.1
15°	10080.0	8215.9	6525.4	5803.2	5539.9
17.5°	10102.0	7799.0	5972.1	5217.4	4924.6
20°	10123.9	7349.6	5418.7	4641.2	4399.9
22.5°	10144.9	6875.5	4878.8	4193.8	4028.8
25°	10146.8	6352.7	4369.3	3878.0	3755.0
27.5°	10122.0	5810.8	3956.3	3613.8	3537.4
30°	10079.1	5285.2	3635.7	3423.0	3368.6
32.5°	9972.2	4749.0	3387.7	3238.8	3207.4
35°	9783.3	4223.4	3171.1	3071.9	3070.9
37.5°	9485.7	3756.9	2936.4	2919.3	2940.2
40°	9045.9	3348.6	2714.1	2759.9	2759.9
42.5°	8459.2	2993.7	2512.8	2559.6	2547.2
45°	7734.1	2675.0	2298.2	2353.5	2393.6
47.5°	6893.6	2394.6	2078.8	2185.6	2241.0
50°	5979.7	2127.4	1878.4	2014.9	2077.8
52.5°	5021.9	1880.3	1682.9	1839.3	1889.9
55°	4094.6	1658.1	1499.7	1626.6	1684.8
57.5°	3255.1	1446.3	1320.3	1440.5	1560.8
60°	2532.9	1264.1	1151.5	1323.2	1443.4
62.5°	1934.7	1101.9	993.1	1213.5	1333.7
65°	1464.4	961.6	868.1	1112.4	1236.4
67.5°	1103.8	840.5	770.8	1038.9	1160.1
70°	829.0	723.1	692.6	993.1	1101.9
72.5°	612.5	615.3	630.6	953.1	1036.0
75°	452.2	518.0	582.9	905.4	959.7
77.5°	323.4	429.3	540.0	848.1	867.2
80°	224.2	350.1	495.1	772.7	756.5
82.5°	140.2	280.5	455.1	689.7	644.9
85°	79.2	214.7	426.4	593.4	544.7
87.5°	35.3	160.3	373.0	462.7	432.2
90°	0.0	89.7	247.1	348.2	351.1
92.5°	1.9	74.4	228.0	318.6	328.2
95°	3.8	63.0	217.5	295.7	309.1
97.5°	4.8	55.3	204.2	274.8	286.2
100°	5.7	49.6	187.9	252.8	262.4
102.5°	6.7	45.8	172.7	229.9	237.5
105°	7.6	42.0	158.4	209.9	215.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	9.5	32.4	119.3	150.7	155.5
115°	10.5	29.6	106.8	133.6	136.4
117.5°	11.4	25.8	93.5	117.3	118.3
120°	11.4	22.9	80.1	100.2	100.2
122.5°	11.4	19.1	66.8	83.0	82.0
125°	11.4	15.3	54.4	68.7	67.7
127.5°	10.5	12.4	43.9	57.2	56.3
130°	10.5	12.4	35.3	48.7	48.7
132.5°	9.5	11.4	28.6	42.0	42.0
135°	9.5	11.4	23.9	37.2	37.2
137.5°	9.5	12.4	20.0	32.4	32.4
140°	9.5	11.4	17.2	28.6	28.6
142.5°	10.5	11.4	15.3	24.8	24.8
145°	11.4	12.4	14.3	21.9	21.0
147.5°	11.4	13.4	14.3	19.1	18.1
150°	11.4	14.3	14.3	17.2	16.2
152.5°	11.4	14.3	14.3	16.2	15.3
155°	11.4	14.3	15.3	16.2	14.3
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°	7.6	39.1	145.0	187.9	194.6
110°	8.6	35.3	132.6	167.9	174.6



(END OF REPORT)