

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: P829810

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-15SE-A-UNV-L850-CD
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

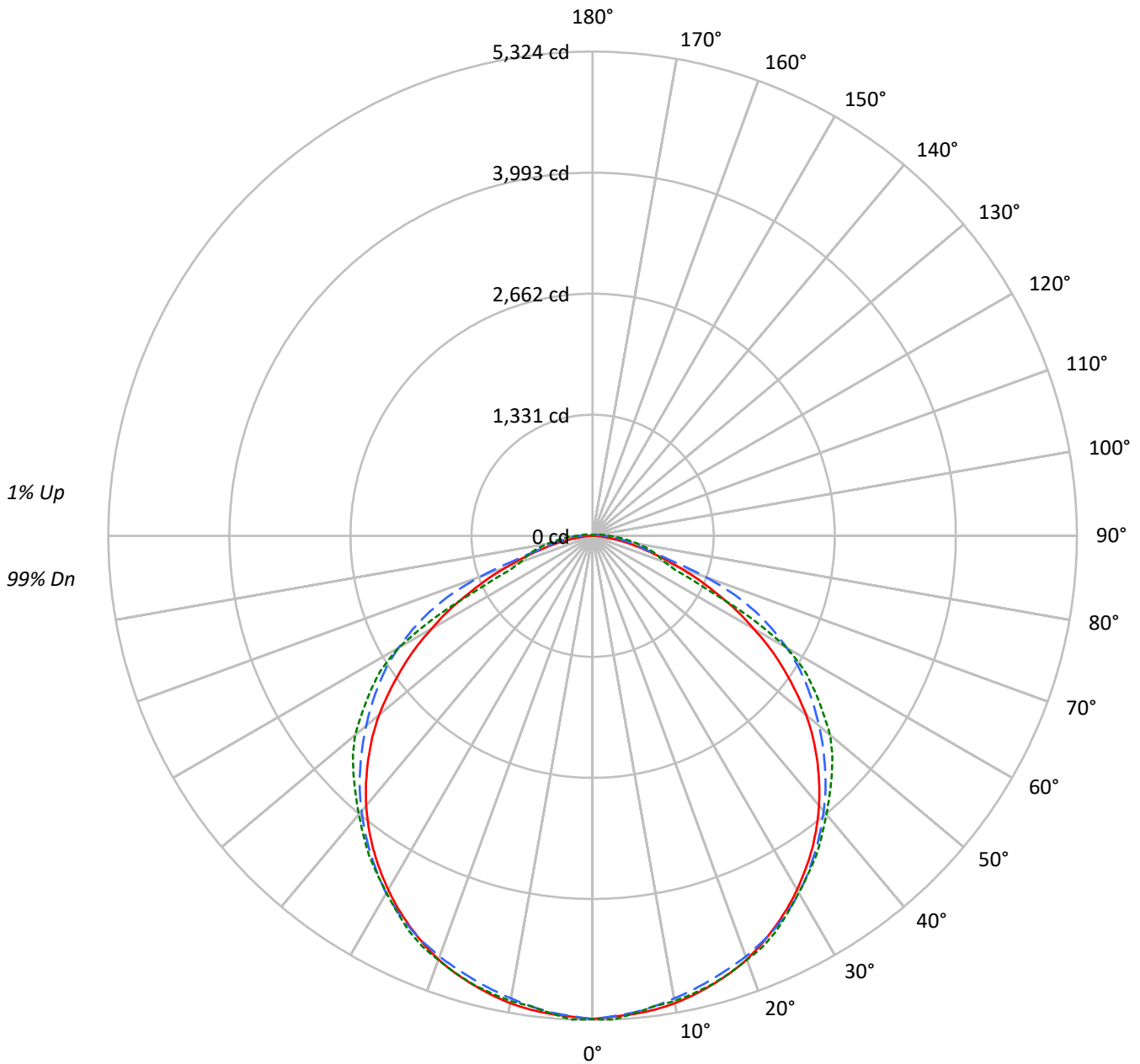
Lumens per Lamp: N/A
Luminaire Lumens: 15019.0 lumens
Efficiency: N/A
Efficacy: 172.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 87
Input Voltage (V): NR
Input Current (A_{in}): 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: P829810

CATALOG NUMBER: OHBL-15SE-A-UNV-L850-CD

Luminous Intensity Polar Plot





TEST NUMBER: P829810

CATALOG NUMBER: OHBL-15SE-A-UNV-L850-CD

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	110	110	110	106	106	106	101	101	101	99																			
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86	83																			
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72	70																			
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61	59																			
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53	51																			
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46	44																			
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40	38																			
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34																			
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32	30																			
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29	27																			
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17287	17287	17287
5°	17174	16934	16928
10°	17111	16579	16600
15°	17003	16290	16351
20°	16894	16073	16067
25°	16690	15852	15783
30°	16469	15559	15339
35°	16203	15154	15023
40°	15859	14734	14640
45°	15381	14259	14366
50°	14734	13728	14052
55°	13706	13187	13306
60°	12359	12454	12058
65°	10602	11238	7453
70°	8540	8565	5229
75°	6402	4915	5069
80°	4456	3879	4511
85°	2537	3238	3737



TEST NUMBER: P829810

CATALOG NUMBER: OHBL-15SE-A-UNV-L850-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.0	3.3
10°-20°	1436.7	9.6
20°-30°	2194.4	14.6
30°-40°	2662.5	17.7
40°-50°	2790.5	18.6
50°-60°	2528.7	16.8
60°-70°	1695.4	11.3
70°-80°	761.3	5.1
80°-90°	276.3	1.8
90°-100°	83.2	0.6
100°-110°	39.2	0.3
110°-120°	19.7	0.1
120°-130°	10.8	0.1
130°-140°	7.5	0.0
140°-150°	5.0	0.0
150°-160°	3.7	0.0
160°-170°	2.4	0.0
170°-180°	0.8	0.0
0°-30°	4132.1	27.5
0°-40°	6794.6	45.2
0°-60°	12113.8	80.7
0°-90°	14846.7	98.9
90°-120°	142.0	0.9
90°-150°	165.4	1.1
90°-180°	172.0	1.1
0°-180°	15019.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5314	5314	5314	5314	5314	
5°	5279	5298	5261	5277	5270	502
15°	5108	5088	5052	5096	5102	1442
25°	4745	4724	4758	4801	4787	2187
35°	4206	4216	4259	4304	4287	2629
45°	3490	3547	3613	3706	3717	2689
55°	2568	2692	2876	2991	2984	2293
65°	1508	1743	1979	1670	1364	1502
75°	593	860	633	648	690	648
85°	102	196	251	304	318	125
90°	1	65	130	163	171	6
95°	1	41	89	108	111	1
105°	3	18	44	53	55	4
115°	6	9	22	28	30	6
125°	5	6	14	16	17	5
135°	7	8	8	12	13	5
145°	7	8	8	8	9	5
155°	8	8	8	8	8	4
165°	8	8	8	8	8	2
175°	8	8	8	7	7	1
180°	8	8	8	8	8	



TEST NUMBER: P829810

CATALOG NUMBER: OHBL-15SE-A-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5313.7	5313.7	5313.7	5313.7	5313.7
2.5°	5292.2	5314.5	5286.8	5316.8	5324.5
5°	5279.2	5297.6	5260.7	5276.9	5269.9
7.5°	5255.3	5261.5	5217.7	5230.8	5216.9
10°	5220.0	5216.9	5165.4	5190.8	5193.9
12.5°	5167.8	5158.5	5112.4	5150.9	5151.6
15°	5107.8	5087.8	5051.7	5096.3	5102.4
17.5°	5038.7	5012.6	4988.7	5046.4	5037.1
20°	4958.0	4927.3	4922.7	4985.7	4962.6
22.5°	4858.1	4834.3	4845.1	4905.0	4890.4
25°	4745.2	4724.4	4757.5	4801.3	4787.4
27.5°	4626.1	4613.8	4651.4	4685.2	4658.4
30°	4495.5	4488.6	4538.5	4566.2	4532.3
32.5°	4353.3	4355.6	4403.3	4440.9	4409.4
35°	4205.8	4215.8	4258.8	4304.2	4287.3
37.5°	4043.7	4066.0	4109.0	4160.5	4142.8
40°	3872.4	3904.6	3952.3	4014.5	3998.4
42.5°	3687.2	3727.9	3789.4	3858.5	3857.0
45°	3490.5	3547.4	3613.4	3705.6	3717.2
47.5°	3286.1	3349.9	3433.6	3556.6	3574.2
50°	3064.1	3144.0	3248.5	3396.0	3406.8
52.5°	2816.7	2925.8	3064.1	3205.5	3192.4
55°	2568.5	2692.2	2875.8	2991.1	2984.2
57.5°	2321.1	2460.2	2683.0	2765.2	2764.4
60°	2044.5	2220.5	2464.0	2526.3	2464.8
62.5°	1788.7	1977.7	2230.4	2185.1	1974.6
65°	1507.5	1743.3	1979.2	1670.3	1363.8
67.5°	1257.7	1503.6	1681.1	1144.0	979.6
70°	1006.5	1277.7	1310.8	849.0	837.5
72.5°	783.7	1072.6	904.3	726.8	763.7
75°	593.1	860.5	633.1	647.7	690.0
77.5°	432.6	660.8	492.5	567.8	602.4
80°	297.3	467.9	401.8	477.1	500.9
82.5°	186.7	308.9	321.9	384.2	408.7
85°	102.2	195.9	251.2	303.5	318.1
87.5°	42.3	118.3	192.1	234.3	246.6
90°	0.8	65.3	129.8	162.9	170.6
92.5°	0.8	49.9	106.0	131.4	136.8
95°	0.8	40.7	89.1	108.3	111.4
97.5°	1.5	32.3	74.5	89.9	93.0
100°	2.3	26.9	62.2	75.3	77.6
102.5°	3.1	21.5	52.2	63.0	65.3
105°	3.1	17.7	43.8	53.0	55.3



TEST NUMBER: P829810

CATALOG NUMBER: OHBL-15SE-A-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.4	10.8	26.1	33.0	34.6
115°	6.1	9.2	22.3	28.4	30.0
117.5°	6.1	7.7	19.2	23.8	25.4
120°	6.1	6.9	16.9	20.7	21.5
122.5°	6.1	6.1	14.6	18.4	19.2
125°	5.4	6.1	13.8	16.1	16.9
127.5°	6.1	6.1	12.3	14.6	15.4
130°	6.1	6.9	10.8	13.8	13.8
132.5°	6.9	7.7	10.0	13.1	13.1
135°	6.9	7.7	8.5	12.3	13.1
137.5°	7.7	7.7	7.7	11.5	12.3
140°	7.7	7.7	6.9	10.0	10.8
142.5°	6.9	7.7	6.9	9.2	10.0
145°	6.9	7.7	7.7	8.5	9.2
147.5°	7.7	7.7	7.7	7.7	8.5
150°	7.7	7.7	7.7	7.7	7.7
152.5°	7.7	7.7	7.7	7.7	7.7
155°	7.7	8.5	8.5	8.5	7.7
157.5°	7.7	8.5	8.5	8.5	8.5
160°	7.7	8.5	8.5	8.5	8.5
162.5°	8.5	8.5	8.5	8.5	8.5
165°	8.5	8.5	8.5	8.5	8.5
167.5°	8.5	9.2	8.5	8.5	8.5
170°	8.5	8.5	8.5	7.7	7.7
172.5°	8.5	8.5	8.5	7.7	7.7
175°	8.5	8.5	7.7	6.9	6.9
177.5°	9.2	8.5	7.7	6.9	6.1
180°	7.7	7.7	7.7	7.7	7.7



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	3.8	14.6	37.6	45.3	46.9
110°	4.6	12.3	31.5	38.4	40.0



(END OF REPORT)