

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: P829843

Luminaire Tested: **OHBL-15SE-N-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829843
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-L830-CD
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

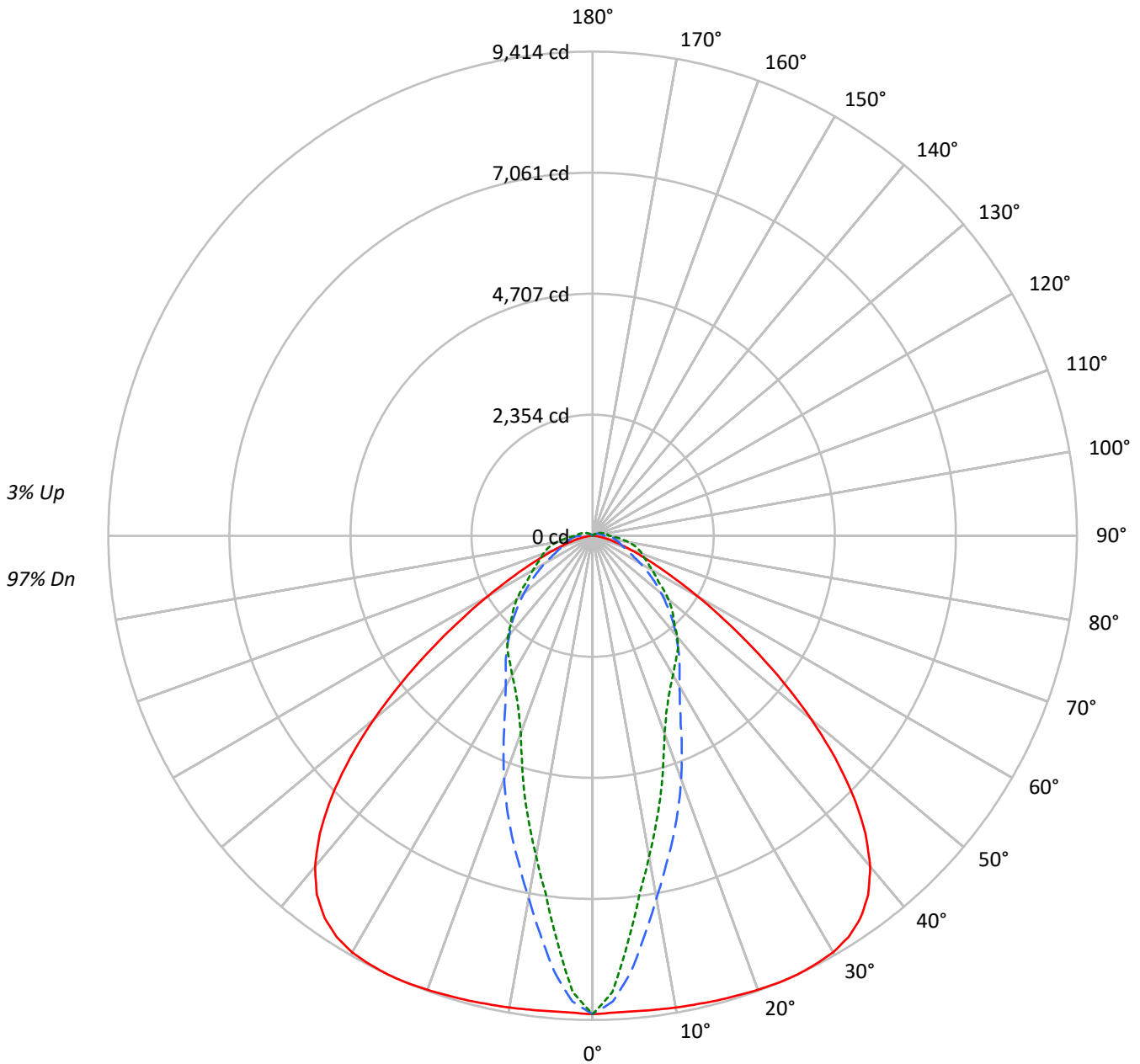
Lumens per Lamp: N/A
Luminaire Lumens: 13726.0 lumens
Efficiency: N/A
Efficacy: 157.8 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 87
Input Voltage (V): NR
Input Current (A_{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: P829843

CATALOG NUMBER: OHBL-15SE-N-UNV-L830-CD

Luminous Intensity Polar Plot





TEST NUMBER: P829843

CATALOG NUMBER: OHBL-15SE-N-UNV-L830-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	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°	30256	30256	30256
5°	30195	27401	25419
10°	30535	22955	20225
15°	31132	19524	16471
20°	32006	16415	13217
25°	33113	13507	11486
30°	34258	11564	10577
35°	34970	10469	9984
40°	34372	9388	9376
45°	31621	8415	8583
50°	26678	7365	7952
55°	20272	6380	6970
60°	14206	5400	6552
65°	9556	4574	6269
70°	6526	4199	6383
75°	4529	4198	6541
80°	3117	4435	6321
85°	1824	5100	5937



TEST NUMBER: P829843

CATALOG NUMBER: OHBL-15SE-N-UNV-L830-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	782.9	5.7
10°-20°	1841.7	13.4
20°-30°	2308.5	16.8
30°-40°	2449.6	17.8
40°-50°	2214.8	16.1
50°-60°	1605.9	11.7
60°-70°	1007.8	7.3
70°-80°	666.9	4.9
80°-90°	384.2	2.8
90°-100°	186.1	1.4
100°-110°	128.5	0.9
110°-120°	79.3	0.6
120°-130°	38.4	0.3
130°-140°	17.7	0.1
140°-150°	9.6	0.1
150°-160°	4.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4933.0	35.9
0°-40°	7382.6	53.8
0°-60°	11203.3	81.6
0°-90°	13262.2	96.6
90°-120°	393.9	2.9
90°-150°	459.6	3.3
90°-180°	464.0	3.4
0°-180°	13726.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9300	9300	9300	9300	9300	
5°	9282	9043	8512	8118	7913	887
15°	9352	7623	6054	5384	5140	2652
25°	9414	5894	4054	3598	3484	4349
35°	9077	3918	2942	2850	2849	5643
45°	7176	2482	2132	2184	2221	5466
55°	3799	1538	1391	1509	1563	3432
65°	1359	892	806	1032	1147	1414
75°	420	481	541	840	890	468
85°	74	199	396	551	505	88
90°	0	83	229	323	326	5
95°	4	58	202	274	287	3
105°	7	39	147	195	200	7
115°	10	27	99	124	127	10
125°	11	14	50	64	63	9
135°	9	11	22	34	34	7
145°	11	12	13	20	20	6
155°	11	13	14	15	13	3
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829843

CATALOG NUMBER: OHBL-15SE-N-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9300.1	9300.1	9300.1	9300.1	9300.1
2.5°	9280.6	9227.5	9062.0	8961.1	8876.1
5°	9281.5	9043.4	8512.3	8117.6	7913.1
7.5°	9294.8	8765.5	7808.6	7232.4	7007.6
10°	9315.1	8421.2	7151.9	6537.6	6327.8
12.5°	9330.2	8033.5	6573.9	5942.8	5712.7
15°	9352.3	7622.8	6054.3	5384.3	5140.0
17.5°	9372.7	7236.0	5540.9	4840.8	4569.1
20°	9393.0	6819.1	5027.6	4306.2	4082.2
22.5°	9412.5	6379.2	4526.6	3891.0	3737.9
25°	9414.3	5894.1	4053.9	3598.1	3483.9
27.5°	9391.3	5391.3	3670.6	3352.9	3282.1
30°	9351.4	4903.6	3373.2	3175.9	3125.4
32.5°	9252.3	4406.2	3143.1	3005.0	2975.8
35°	9077.0	3918.5	2942.2	2850.1	2849.2
37.5°	8800.9	3485.7	2724.4	2708.5	2728.0
40°	8392.8	3106.8	2518.2	2560.7	2560.7
42.5°	7848.5	2777.5	2331.4	2374.8	2363.3
45°	7175.8	2481.9	2132.3	2183.6	2220.8
47.5°	6396.0	2221.7	1928.7	2027.8	2079.2
50°	5548.0	1973.8	1742.8	1869.4	1927.8
52.5°	4659.3	1744.6	1561.4	1706.5	1753.4
55°	3799.0	1538.4	1391.4	1509.2	1563.1
57.5°	3020.1	1341.9	1225.0	1336.6	1448.1
60°	2350.0	1172.8	1068.4	1227.7	1339.2
62.5°	1795.1	1022.3	921.4	1125.9	1237.4
65°	1358.7	892.2	805.5	1032.1	1147.1
67.5°	1024.1	779.8	715.2	963.9	1076.3
70°	769.2	670.9	642.6	921.4	1022.3
72.5°	568.3	570.9	585.1	884.2	961.3
75°	419.6	480.6	540.8	840.0	890.4
77.5°	300.1	398.3	501.0	786.9	804.6
80°	208.0	324.8	459.4	717.0	701.9
82.5°	130.1	260.2	422.2	640.0	598.4
85°	73.5	199.2	395.7	550.6	505.4
87.5°	32.7	148.7	346.1	429.3	401.0
90°	0.0	83.2	229.2	323.1	325.7
92.5°	1.8	69.0	211.5	295.6	304.5
95°	3.5	58.4	201.8	274.4	286.8
97.5°	4.4	51.3	189.4	254.9	265.5
100°	5.3	46.0	174.4	234.6	243.4
102.5°	6.2	42.5	160.2	213.3	220.4
105°	7.1	38.9	146.9	194.7	200.0



TEST NUMBER: P829843

CATALOG NUMBER: OHBL-15SE-N-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.9	30.1	110.6	139.9	144.3
115°	9.7	27.4	99.1	123.9	126.6
117.5°	10.6	23.9	86.7	108.9	109.8
120°	10.6	21.2	74.4	92.9	92.9
122.5°	10.6	17.7	62.0	77.0	76.1
125°	10.6	14.2	50.5	63.7	62.8
127.5°	9.7	11.5	40.7	53.1	52.2
130°	9.7	11.5	32.7	45.1	45.1
132.5°	8.9	10.6	26.6	38.9	38.9
135°	8.9	10.6	22.1	34.5	34.5
137.5°	8.9	11.5	18.6	30.1	30.1
140°	8.9	10.6	15.9	26.6	26.6
142.5°	9.7	10.6	14.2	23.0	23.0
145°	10.6	11.5	13.3	20.4	19.5
147.5°	10.6	12.4	13.3	17.7	16.8
150°	10.6	13.3	13.3	15.9	15.0
152.5°	10.6	13.3	13.3	15.0	14.2
155°	10.6	13.3	14.2	15.0	13.3
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°	7.1	36.3	134.5	174.4	180.6
110°	8.0	32.7	123.0	155.8	162.0



(END OF REPORT)