

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: P829831

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-15SE-MFL-UNV-L830-CD
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

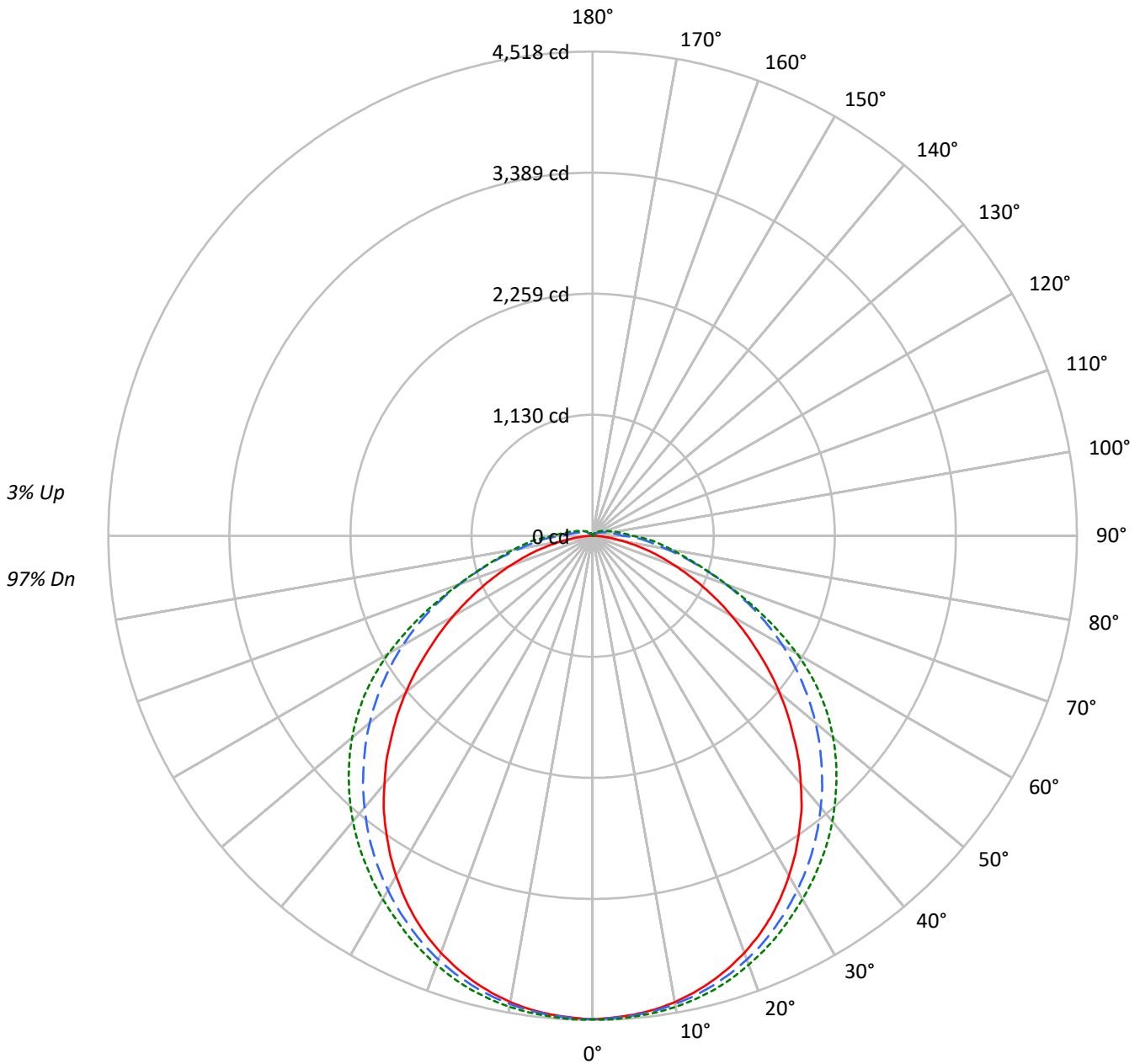
Lumens per Lamp: N/A
Luminaire Lumens: 13506.9 lumens
Efficiency: N/A
Efficacy: 155.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

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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	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	86	84	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	75	72	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	67	62	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	59	54	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	53	48	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	48	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	44	38	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	37	32	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14683	14683	14683
5°	14589	14457	14465
10°	14486	14244	14269
15°	14325	14009	14052
20°	14110	13740	13789
25°	13823	13425	13524
30°	13426	13090	13255
35°	12945	12738	13001
40°	12367	12341	12740
45°	11686	11913	12434
50°	10941	11473	12082
55°	10025	10950	11588
60°	9088	10345	10780
65°	8063	9595	9586
70°	6954	8667	8304
75°	5830	7597	7303
80°	4420	6674	6754
85°	2797	6321	6669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.6	3.2
10°-20°	1226.8	9.1
20°-30°	1855.4	13.7
30°-40°	2227.4	16.5
40°-50°	2300.6	17.0
50°-60°	2069.8	15.3
60°-70°	1559.1	11.5
70°-80°	941.5	7.0
80°-90°	460.5	3.4
90°-100°	193.8	1.4
100°-110°	110.6	0.8
110°-120°	64.9	0.5
120°-130°	36.7	0.3
130°-140°	19.3	0.1
140°-150°	9.4	0.1
150°-160°	3.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3509.9	26.0
0°-40°	5737.3	42.5
0°-60°	10107.6	74.8
0°-90°	13068.6	96.8
90°-120°	369.4	2.7
90°-150°	434.8	3.2
90°-180°	438.0	3.2
0°-180°	13506.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4513	4513	4513	4513	4513	
5°	4484	4497	4491	4509	4503	426
15°	4303	4324	4344	4381	4385	1213
25°	3930	3973	4029	4092	4102	1808
35°	3360	3438	3580	3688	3710	2100
45°	2652	2786	3019	3183	3218	2047
55°	1879	2073	2388	2568	2599	1684
65°	1146	1381	1690	1774	1754	1139
75°	540	775	979	1004	994	576
85°	113	297	490	558	568	130
90°	0	116	281	354	368	7
95°	6	78	210	267	277	5
105°	8	45	122	159	166	8
115°	9	25	75	100	105	9
125°	9	12	45	65	68	8
135°	8	10	23	40	44	6
145°	11	10	11	20	23	7
155°	11	12	11	10	11	3
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°	4513.1	4513.1	4513.1	4513.1	4513.1
2.5°	4499.9	4510.9	4504.3	4518.6	4517.5
5°	4484.4	4496.6	4491.0	4508.7	4503.2
7.5°	4457.9	4471.1	4470.0	4489.9	4487.7
10°	4419.2	4433.6	4438.0	4464.5	4464.5
12.5°	4366.2	4385.0	4396.0	4428.1	4429.2
15°	4303.3	4324.2	4344.1	4380.6	4385.0
17.5°	4227.0	4253.6	4281.2	4323.1	4328.7
20°	4140.9	4170.7	4208.3	4252.4	4259.1
22.5°	4041.5	4076.8	4125.4	4177.3	4185.1
25°	3929.9	3973.0	4029.3	4092.3	4102.2
27.5°	3802.9	3852.6	3928.8	3999.5	4008.3
30°	3664.8	3723.4	3818.4	3902.3	3916.7
32.5°	3519.0	3586.4	3703.5	3797.4	3817.3
35°	3360.0	3438.4	3579.8	3688.0	3710.1
37.5°	3203.1	3289.3	3449.5	3573.2	3599.7
40°	3019.8	3126.9	3310.3	3447.2	3479.3
42.5°	2847.5	2963.5	3171.1	3320.2	3351.2
45°	2652.0	2785.6	3018.7	3183.3	3217.5
47.5°	2468.6	2613.3	2871.8	3041.9	3077.2
50°	2275.3	2434.4	2714.9	2892.8	2929.2
52.5°	2082.0	2253.2	2552.6	2737.0	2771.3
55°	1878.8	2073.2	2388.0	2568.0	2599.0
57.5°	1689.9	1895.4	2219.0	2390.2	2409.0
60°	1503.3	1716.4	2046.7	2196.9	2203.5
62.5°	1321.0	1545.2	1870.0	1989.3	1980.4
65°	1146.5	1380.7	1689.9	1773.9	1754.0
67.5°	978.6	1220.5	1505.5	1559.6	1533.1
70°	819.6	1064.8	1326.5	1354.2	1329.9
72.5°	679.3	916.8	1145.4	1168.6	1150.9
75°	540.1	775.4	978.6	1004.0	994.1
77.5°	409.8	638.4	825.1	858.2	860.4
80°	294.9	513.6	691.4	743.4	750.0
82.5°	194.4	398.7	579.9	646.2	656.1
85°	112.7	297.1	490.4	557.8	567.7
87.5°	48.6	214.3	394.3	455.1	467.2
90°	0.0	116.0	280.6	353.5	367.8
92.5°	3.3	96.1	240.8	307.1	319.2
95°	5.5	78.4	209.9	267.3	277.2
97.5°	6.6	66.3	182.2	233.1	243.0
100°	6.6	57.4	157.9	204.3	213.2
102.5°	6.6	50.8	138.1	178.9	186.7
105°	7.7	45.3	121.5	159.1	165.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.8	29.8	83.9	112.7	117.1
115°	8.8	25.4	75.1	100.5	104.9
117.5°	9.9	22.1	66.3	90.6	93.9
120°	9.9	18.8	58.5	80.6	85.0
122.5°	9.9	15.5	51.9	72.9	76.2
125°	8.8	12.1	45.3	65.2	68.5
127.5°	7.7	9.9	38.7	58.5	61.9
130°	7.7	8.8	33.1	51.9	55.2
132.5°	7.7	9.9	27.6	45.3	49.7
135°	7.7	9.9	23.2	39.8	44.2
137.5°	7.7	9.9	18.8	34.2	38.7
140°	8.8	9.9	15.5	28.7	33.1
142.5°	9.9	9.9	12.1	24.3	27.6
145°	11.0	9.9	11.0	19.9	23.2
147.5°	11.0	11.0	11.0	15.5	18.8
150°	11.0	12.1	11.0	12.1	15.5
152.5°	11.0	12.1	11.0	9.9	12.1
155°	11.0	12.1	11.0	9.9	11.0
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°	7.7	39.8	107.1	141.4	146.9
110°	7.7	35.3	95.0	125.9	131.4



(END OF REPORT)