

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: P830719

Luminaire Tested: **OHBL-60SE-NL-UNV-L830-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830719
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-60SE-NL-UNV-L830-CD
Description: 60000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

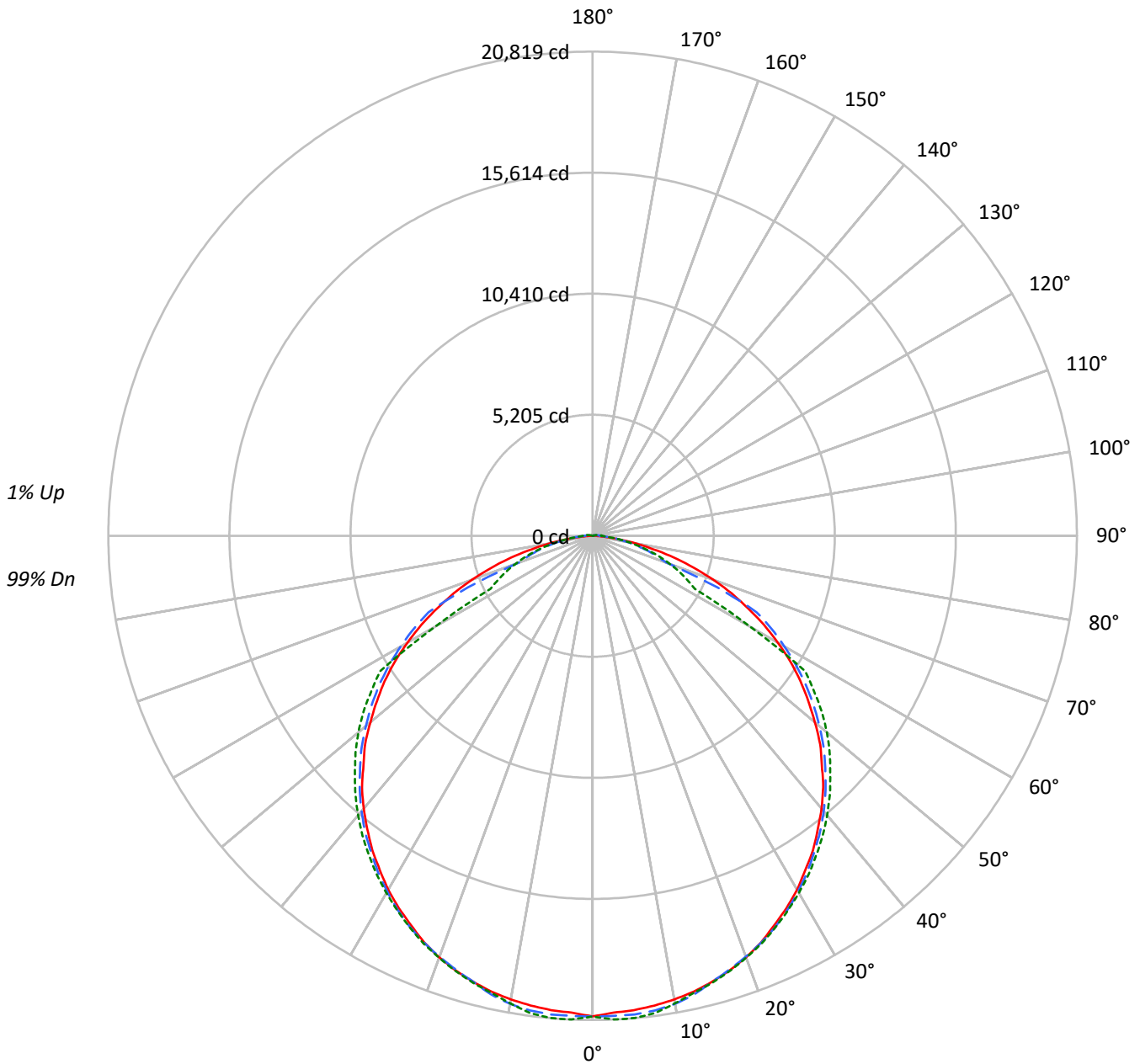
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58024.0 lumens
Efficiency: N/A
Efficacy: 160.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 362
Input Voltage (V): NR
Input Current (Ain): 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°	35299	35299	35299
5°	35103	35421	35688
10°	35113	35447	35403
15°	35107	35101	35178
20°	35059	35006	35092
25°	34820	34997	35025
30°	34658	34837	34973
35°	34434	34623	34948
40°	34136	34460	34969
45°	33644	34152	34897
50°	33137	33812	34929
55°	32503	33346	34545
60°	31414	32529	26894
65°	29722	31450	18100
70°	27490	16696	17566
75°	23978	15866	16775
80°	18439	14554	15374
85°	9307	14709	15062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1963.4	3.4
10°-20°	5621.8	9.7
20°-30°	8554.0	14.7
30°-40°	10400.5	17.9
40°-50°	10935.6	18.8
50°-60°	9985.5	17.2
60°-70°	6401.2	11.0
70°-80°	3023.8	5.2
80°-90°	838.5	1.4
90°-100°	222.1	0.4
100°-110°	60.8	0.1
110°-120°	16.8	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°	16139.2	27.8
0°-40°	26539.7	45.7
0°-60°	47460.8	81.8
0°-90°	57724.3	99.5
90°-120°	299.7	0.5
90°-150°	299.7	0.5
90°-180°	300.0	0.5
0°-180°	58024.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20667	20667	20667	20667	20667	
5°	20474	20554	20659	20772	20815	###
15°	19854	20003	19851	19880	19894	5605
25°	18476	18505	18570	18600	18585	8526
35°	16514	16416	16605	16808	16761	10320
45°	13929	13903	14139	14473	14447	10766
55°	10915	10832	11198	11572	11601	9734
65°	7354	7354	7782	4464	4479	7291
75°	3634	3703	2404	2531	2542	3830
85°	475	602	751	812	769	702
90°	0	203	334	395	388	21
95°	11	105	240	323	323	6
105°	18	40	58	58	54	18
115°	18	25	36	25	4	13
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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CATALOG NUMBER: OHBL-60SE-NL-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20666.7	20666.7	20666.7	20666.7	20666.7
2.5°	20521.5	20590.6	20666.7	20764.6	20818.7
5°	20474.3	20554.2	20659.4	20771.9	20815.2
7.5°	20372.9	20485.1	20586.8	20666.7	20692.0
10°	20245.9	20380.2	20438.2	20430.9	20412.9
12.5°	20075.4	20217.1	20199.0	20115.3	20129.9
15°	19854.3	20002.8	19850.8	19879.6	19894.2
17.5°	19593.2	19738.3	19560.5	19618.5	19622.4
20°	19288.7	19397.4	19259.5	19306.8	19306.8
22.5°	18922.5	18998.5	18940.5	18973.1	18980.4
25°	18476.3	18505.1	18570.4	18599.6	18585.0
27.5°	18048.6	18012.2	18139.2	18208.0	18171.5
30°	17573.3	17515.3	17663.9	17776.4	17733.0
32.5°	17029.3	16993.2	17163.7	17297.7	17272.3
35°	16514.4	16416.5	16605.0	16808.1	16760.9
37.5°	15905.1	15847.2	16061.0	16275.2	16249.9
40°	15310.4	15212.5	15455.6	15709.3	15684.0
42.5°	14672.3	14556.0	14820.9	15125.8	15096.6
45°	13928.7	13903.3	14139.0	14472.7	14447.3
47.5°	13269.1	13142.0	13471.8	13794.7	13823.8
50°	12470.9	12424.0	12725.0	13116.6	13145.4
52.5°	11691.5	11658.9	11974.1	12369.5	12420.2
55°	10915.2	10831.9	11198.1	11571.7	11600.9
57.5°	10085.1	9998.0	10371.5	10777.7	10839.2
60°	9196.3	9113.0	9522.7	9900.1	7872.9
62.5°	8307.9	8249.9	8678.0	6146.7	4953.9
65°	7354.2	7354.2	7781.9	4464.0	4478.6
67.5°	6462.3	6404.4	5802.4	4010.5	4010.5
70°	5504.8	5526.7	3343.3	3514.1	3517.6
72.5°	4543.8	4623.7	2886.8	3024.2	3031.5
75°	3633.5	3702.6	2404.2	2531.3	2542.0
77.5°	2669.1	2052.5	1932.7	2031.0	2034.5
80°	1874.7	1294.6	1479.7	1573.7	1563.0
82.5°	1095.0	906.5	1084.2	1153.3	1149.5
85°	474.9	602.0	750.6	812.4	768.6
87.5°	152.0	373.6	467.6	504.1	500.3
90°	0.0	203.1	333.6	395.1	388.2
92.5°	0.0	159.3	290.3	362.8	366.3
95°	10.8	105.2	239.6	322.9	322.9
97.5°	7.3	76.0	170.5	253.8	261.1
100°	7.3	61.4	112.5	181.2	185.1
102.5°	18.0	50.7	68.7	115.9	119.8
105°	18.0	39.9	58.0	58.0	54.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	21.9	29.2	39.9	29.2	3.5
115°	18.0	25.3	36.1	25.3	3.5
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°	18.0	36.1	50.7	32.6	10.8
110°	21.9	32.6	43.4	29.2	3.5



(END OF REPORT)