

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: P830623

Luminaire Tested: **OHBL-60HE-MFL-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830623
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-60HE-MFL-UNV-L830-CD
Description: 60000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

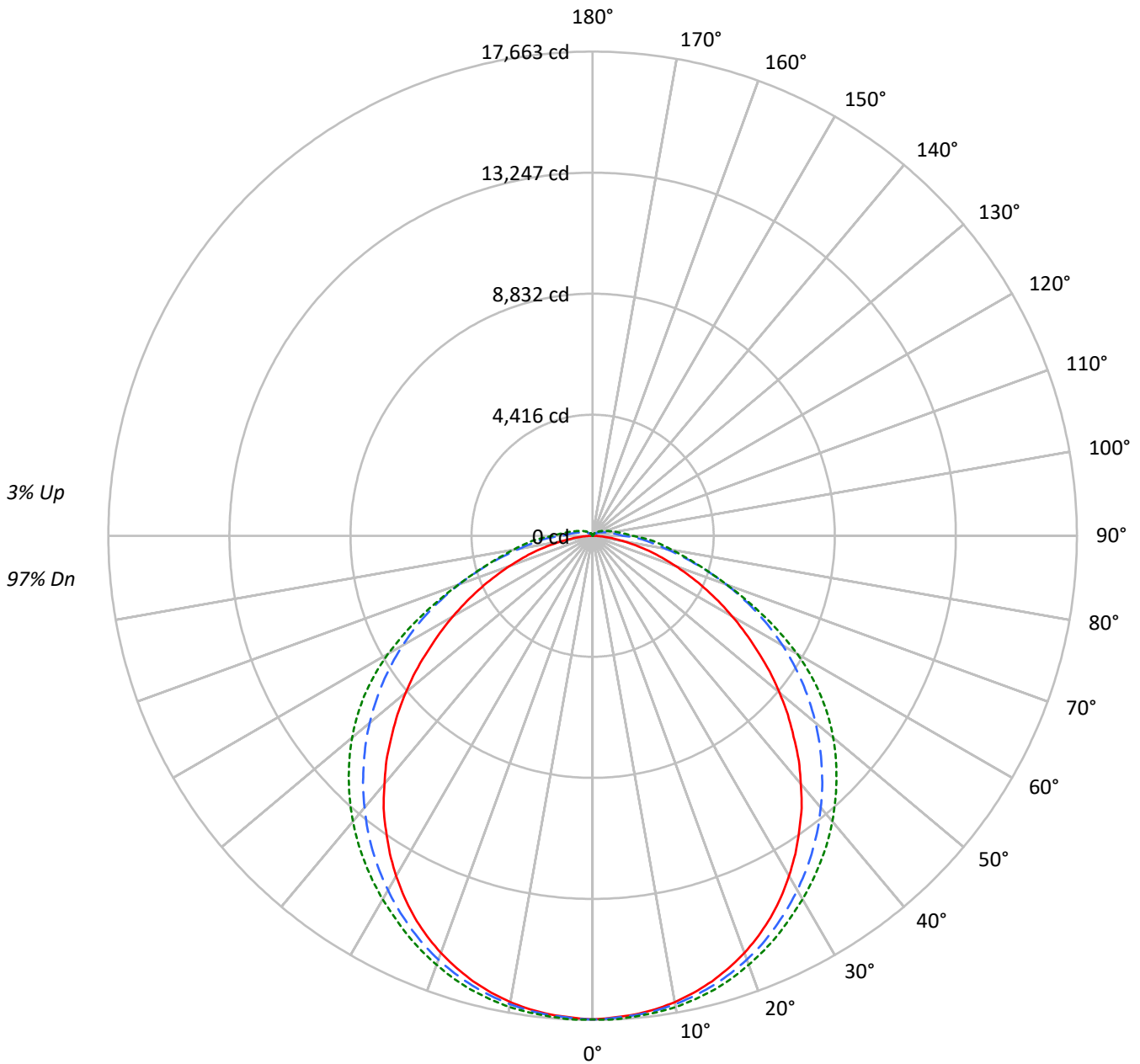
Lumens per Lamp: N/A
Luminaire Lumens: 52812.0 lumens
Efficiency: N/A
Efficacy: 156.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 338
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									
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	97																	
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	80																	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	66																	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	56																	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	47																	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	41																	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	36																	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	32																	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	28																	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	25																	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	23																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27907	27907	27907
5°	27728	27643	27727
10°	27534	27399	27582
15°	27226	27107	27391
20°	26818	26751	27112
25°	26273	26306	26830
30°	25518	25823	26546
35°	24604	25310	26301
40°	23506	24716	26060
45°	22212	24071	25752
50°	20796	23419	25378
55°	19055	22621	24746
60°	17272	21682	23484
65°	15326	20481	21411
70°	13217	18950	19166
75°	11081	17182	17650
80°	8401	15904	17510
85°	5315	16531	19567



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1672.1	3.2
10°-20°	4796.9	9.1
20°-30°	7254.5	13.7
30°-40°	8709.1	16.5
40°-50°	8995.1	17.0
50°-60°	8092.8	15.3
60°-70°	6096.2	11.5
70°-80°	3681.1	7.0
80°-90°	1800.3	3.4
90°-100°	757.8	1.4
100°-110°	432.6	0.8
110°-120°	253.9	0.5
120°-130°	143.6	0.3
130°-140°	75.6	0.1
140°-150°	36.8	0.1
150°-160°	13.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	13723.5	26.0
0°-40°	22432.6	42.5
0°-60°	39520.5	74.8
0°-90°	51098.0	96.8
90°-120°	1444.3	2.7
90°-150°	1700.3	3.2
90°-180°	1714.0	3.2
0°-180°	52812.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17646	17646	17646	17646	17646	
5°	17534	17581	17560	17629	17607	###
15°	16826	16908	16985	17128	17145	4744
25°	15366	15534	15755	16001	16040	7068
35°	13138	13444	13997	14420	14506	8213
45°	10369	10892	11803	12446	12580	8005
55°	7346	8106	9337	10041	10162	6586
65°	4483	5398	6608	6936	6858	4454
75°	2112	3032	3826	3926	3887	2253
85°	440	1162	1918	2181	2220	509
90°	0	454	1097	1382	1438	28
95°	22	307	821	1045	1084	18
105°	30	177	475	622	648	30
115°	34	99	294	393	410	35
125°	34	48	177	255	268	31
135°	30	39	91	156	173	24
145°	43	39	43	78	91	26
155°	43	48	43	39	43	13
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHBL-60HE-MFL-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17646.2	17646.2	17646.2	17646.2	17646.2
2.5°	17594.3	17637.5	17611.6	17667.8	17663.4
5°	17533.9	17581.4	17559.8	17628.9	17607.3
7.5°	17430.2	17482.1	17477.7	17555.5	17546.8
10°	17279.1	17335.2	17352.5	17456.1	17456.1
12.5°	17071.8	17145.2	17188.4	17313.6	17317.9
15°	16825.6	16907.7	16985.4	17127.9	17145.2
17.5°	16527.6	16631.3	16739.2	16903.4	16924.9
20°	16190.8	16307.4	16454.2	16627.0	16652.9
22.5°	15802.1	15940.3	16130.3	16333.3	16363.5
25°	15365.9	15534.3	15754.6	16000.7	16039.6
27.5°	14869.3	15063.6	15361.6	15638.0	15672.5
30°	14329.4	14558.3	14929.7	15257.9	15314.1
32.5°	13759.3	14022.8	14480.6	14847.7	14925.4
35°	13137.5	13444.1	13996.9	14420.1	14506.5
37.5°	12524.2	12861.1	13487.3	13971.0	14074.6
40°	11807.3	12226.2	12943.1	13478.6	13603.9
42.5°	11133.6	11587.0	12399.0	12982.0	13102.9
45°	10369.2	10891.7	11803.0	12446.5	12580.3
47.5°	9652.3	10218.0	11228.6	11893.7	12031.9
50°	8896.5	9518.4	10615.3	11310.7	11453.2
52.5°	8140.7	8810.1	9980.5	10701.7	10835.6
55°	7346.1	8106.2	9337.0	10041.0	10161.9
57.5°	6607.6	7410.9	8676.2	9345.6	9419.1
60°	5877.7	6711.2	8002.5	8589.9	8615.8
62.5°	5165.2	6041.8	7311.5	7778.0	7743.4
65°	4482.8	5398.4	6607.6	6935.8	6858.1
67.5°	3826.4	4772.2	5886.4	6098.0	5994.3
70°	3204.5	4163.2	5186.7	5294.7	5199.7
72.5°	2656.0	3584.5	4478.5	4569.2	4500.1
75°	2111.8	3031.7	3826.4	3925.7	3886.8
77.5°	1602.2	2496.2	3226.1	3355.6	3364.3
80°	1153.1	2008.2	2703.5	2906.5	2932.4
82.5°	760.1	1559.0	2267.3	2526.4	2565.3
85°	440.5	1161.7	1917.5	2180.9	2219.8
87.5°	190.0	837.8	1541.8	1779.3	1826.8
90°	0.0	453.5	1096.9	1382.0	1438.1
92.5°	13.0	375.7	941.5	1200.6	1248.1
95°	21.6	306.6	820.6	1045.1	1084.0
97.5°	25.9	259.1	712.6	911.2	950.1
100°	25.9	224.6	617.6	799.0	833.5
102.5°	25.9	198.7	539.8	699.6	729.9
105°	30.2	177.1	475.1	621.9	647.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	34.5	116.6	328.2	440.5	457.8
115°	34.5	99.3	293.7	393.0	410.3
117.5°	38.9	86.4	259.1	354.1	367.1
120°	38.9	73.4	228.9	315.3	332.5
122.5°	38.9	60.5	203.0	285.0	298.0
125°	34.5	47.5	177.1	254.8	267.8
127.5°	30.2	38.9	151.2	228.9	241.8
130°	30.2	34.5	129.6	203.0	215.9
132.5°	30.2	38.9	108.0	177.1	194.3
135°	30.2	38.9	90.7	155.5	172.7
137.5°	30.2	38.9	73.4	133.9	151.2
140°	34.5	38.9	60.5	112.3	129.6
142.5°	38.9	38.9	47.5	95.0	108.0
145°	43.2	38.9	43.2	77.7	90.7
147.5°	43.2	43.2	43.2	60.5	73.4
150°	43.2	47.5	43.2	47.5	60.5
152.5°	43.2	47.5	43.2	38.9	47.5
155°	43.2	47.5	43.2	38.9	43.2
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°	30.2	155.5	418.9	552.8	574.4
110°	30.2	138.2	371.4	492.3	513.9



(END OF REPORT)