

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: P830647

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830647
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-60HE-NL-UNV-L830-CD
Description: 60000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

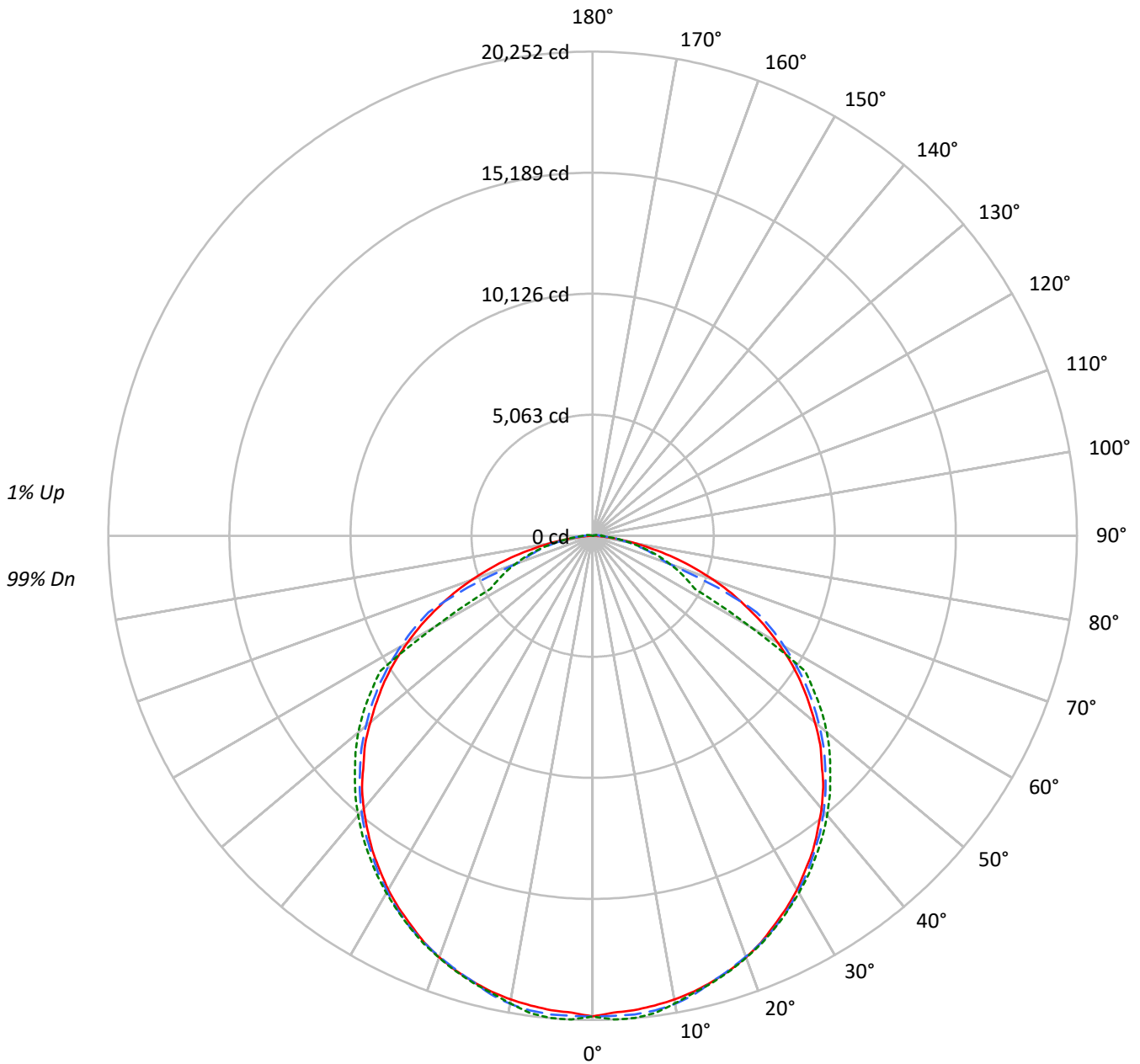
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56445.0 lumens
Efficiency: N/A
Efficacy: 167.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 338
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°	31794	31794	31794
5°	31619	31905	32145
10°	31627	31928	31888
15°	31622	31617	31686
20°	31579	31531	31609
25°	31363	31523	31548
30°	31218	31379	31502
35°	31015	31186	31478
40°	30748	31039	31498
45°	30304	30762	31433
50°	29848	30456	31462
55°	29276	30035	31116
60°	28296	29300	24224
65°	26771	28328	16303
70°	24761	15038	15823
75°	21598	14291	15110
80°	16609	13109	13848
85°	8383	13250	13567



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1910.0	3.4
10°-20°	5468.8	9.7
20°-30°	8321.2	14.7
30°-40°	10117.4	17.9
40°-50°	10638.0	18.8
50°-60°	9713.8	17.2
60°-70°	6227.0	11.0
70°-80°	2941.5	5.2
80°-90°	815.7	1.4
90°-100°	216.0	0.4
100°-110°	59.2	0.1
110°-120°	16.4	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°	15700.0	27.8
0°-40°	25817.4	45.7
0°-60°	46169.2	81.8
0°-90°	56153.4	99.5
90°-120°	291.6	0.5
90°-150°	291.6	0.5
90°-180°	292.0	0.5
0°-180°	56445.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20104	20104	20104	20104	20104	
5°	19917	19995	20097	20207	20249	###
15°	19314	19458	19311	19339	19353	5453
25°	17974	18002	18065	18093	18079	8294
35°	16065	15970	16153	16351	16305	10040
45°	13550	13525	13754	14079	14054	10473
55°	10618	10537	10893	11257	11285	9470
65°	7154	7154	7570	4342	4357	7093
75°	3535	3602	2339	2462	2473	3726
85°	462	586	730	790	748	683
90°	0	198	325	384	378	20
95°	10	102	233	314	314	6
105°	18	39	56	56	53	18
115°	18	25	35	25	3	12
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



TEST NUMBER: P830647

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20104.3	20104.3	20104.3	20104.3	20104.3
2.5°	19963.1	20030.3	20104.3	20199.5	20252.2
5°	19917.1	19994.8	20097.2	20206.6	20248.8
7.5°	19818.5	19927.6	20026.6	20104.3	20128.9
10°	19694.9	19825.6	19882.0	19874.9	19857.4
12.5°	19529.1	19666.9	19649.4	19567.9	19582.1
15°	19314.0	19458.5	19310.6	19338.6	19352.8
17.5°	19060.0	19201.2	19028.2	19084.6	19088.4
20°	18763.8	18869.5	18735.4	18781.4	18781.4
22.5°	18407.5	18481.5	18425.1	18456.8	18463.9
25°	17973.5	18001.5	18065.0	18093.4	18079.2
27.5°	17557.5	17522.0	17645.6	17712.5	17677.0
30°	17095.1	17038.7	17183.2	17292.7	17250.5
32.5°	16565.9	16530.8	16696.6	16826.9	16802.3
35°	16065.0	15969.8	16153.2	16350.7	16304.8
37.5°	15472.3	15415.9	15623.9	15832.3	15807.7
40°	14893.8	14798.5	15035.0	15281.8	15257.2
42.5°	14273.1	14159.9	14417.6	14714.1	14685.8
45°	13549.6	13525.0	13754.3	14078.8	14054.2
47.5°	12908.0	12784.3	13105.2	13419.3	13447.7
50°	12131.5	12085.9	12378.7	12759.7	12787.7
52.5°	11373.3	11341.6	11648.2	12032.9	12082.2
55°	10618.1	10537.1	10893.4	11256.8	11285.2
57.5°	9810.7	9725.9	10089.3	10484.4	10544.2
60°	8946.1	8865.0	9263.5	9630.7	7658.7
62.5°	8081.8	8025.4	8441.9	5979.5	4819.1
65°	7154.1	7154.1	7570.1	4342.5	4356.7
67.5°	6286.5	6230.1	5644.5	3901.4	3901.4
70°	5355.0	5376.3	3252.3	3418.5	3421.9
72.5°	4420.2	4497.9	2808.2	2941.9	2949.0
75°	3534.7	3601.9	2338.8	2462.4	2472.8
77.5°	2596.5	1996.6	1880.1	1975.7	1979.1
80°	1823.7	1259.4	1439.4	1530.9	1520.5
82.5°	1065.2	881.8	1054.7	1121.9	1118.2
85°	462.0	585.6	730.2	790.3	747.7
87.5°	147.9	363.4	454.9	490.4	486.6
90°	0.0	197.6	324.6	384.3	377.6
92.5°	0.0	155.0	282.4	352.9	356.3
95°	10.5	102.3	233.1	314.1	314.1
97.5°	7.1	73.9	165.8	246.9	254.0
100°	7.1	59.8	109.4	176.3	180.0
102.5°	17.6	49.3	66.9	112.8	116.5
105°	17.6	38.8	56.4	56.4	53.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	21.3	28.4	38.8	28.4	3.4
115°	17.6	24.6	35.1	24.6	3.4
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°	17.6	35.1	49.3	31.7	10.5
110°	21.3	31.7	42.2	28.4	3.4



(END OF REPORT)