

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: P830611

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-60HE-MCL-UNV-L830-CD
Description: 60000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

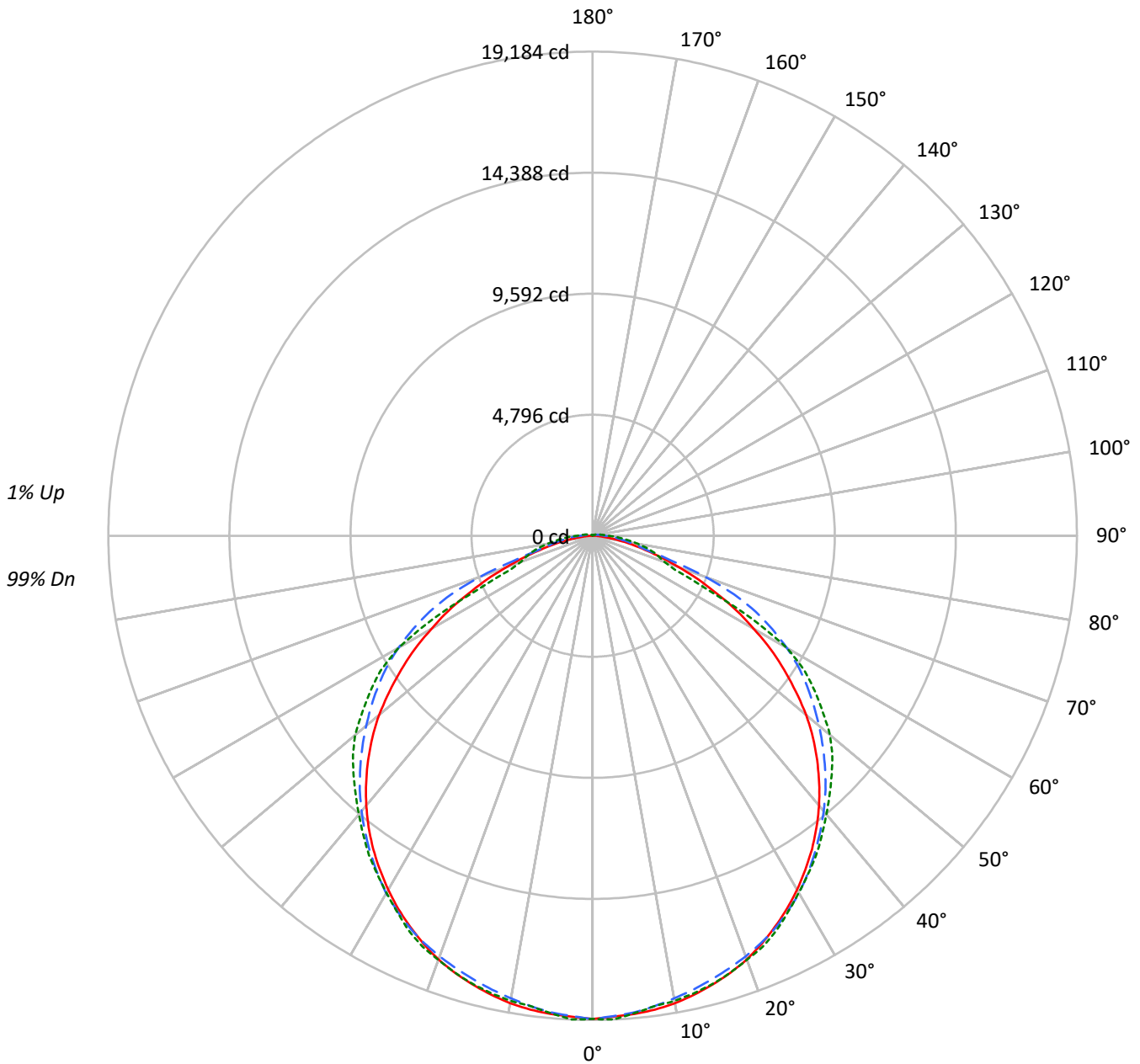
Lumens per Lamp: N/A
Luminaire Lumens: 54113.0 lumens
Efficiency: N/A
Efficacy: 160.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P830611

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

Luminous Intensity Polar Plot





TEST NUMBER: P830611

CATALOG NUMBER: OHBL-60HE-MCL-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	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	30278	30278	30278
5°	30080	29838	29901
10°	29969	29386	29568
15°	29779	29048	29371
20°	29589	28835	29110
25°	29232	28620	28853
30°	28844	28283	28307
35°	28379	27746	28006
40°	27776	27192	27596
45°	26940	26551	27415
50°	25806	25822	27197
55°	24005	25104	26182
60°	21646	24053	24206
65°	18569	22103	15340
70°	14957	17255	11122
75°	11213	10243	11288
80°	7805	8517	10777
85°	4443	7804	10102



TEST NUMBER: P830611

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1805.2	3.3
10°-20°	5176.5	9.6
20°-30°	7906.2	14.6
30°-40°	9592.9	17.7
40°-50°	10054.3	18.6
50°-60°	9110.7	16.8
60°-70°	6108.3	11.3
70°-80°	2742.9	5.1
80°-90°	995.4	1.8
90°-100°	299.6	0.6
100°-110°	141.4	0.3
110°-120°	70.8	0.1
120°-130°	39.1	0.1
130°-140°	26.9	0.0
140°-150°	18.1	0.0
150°-160°	13.4	0.0
160°-170°	8.6	0.0
170°-180°	2.7	0.0
0°-30°	14887.9	27.5
0°-40°	24480.8	45.2
0°-60°	43645.7	80.7
0°-90°	53492.3	98.9
90°-120°	511.8	0.9
90°-150°	595.8	1.1
90°-180°	621.0	1.1
0°-180°	54113.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19145	19145	19145	19145	19145	
5°	19021	19087	18954	19012	18987	###
15°	18403	18331	18201	18362	18384	5196
25°	17097	17022	17141	17299	17249	7881
35°	15153	15189	15344	15508	15447	9471
45°	12576	12781	13019	13351	13393	9688
55°	9254	9700	10362	10777	10752	8261
65°	5431	6281	7131	6018	4914	5412
75°	2137	3100	2281	2334	2486	2336
85°	368	706	905	1094	1146	449
90°	3	235	468	587	615	22
95°	3	147	321	390	401	4
105°	11	64	158	191	199	13
115°	22	33	80	102	108	21
125°	19	22	50	58	61	19
135°	25	28	30	44	47	20
145°	25	28	28	30	33	16
155°	28	30	30	30	28	13
165°	30	30	30	30	30	9
175°	30	30	28	25	25	3
180°	28	28	28	28	28	



TEST NUMBER: P830611

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19145.2	19145.2	19145.2	19145.2	19145.2
2.5°	19067.7	19148.0	19048.3	19156.3	19184.0
5°	19020.7	19087.1	18954.2	19012.3	18987.4
7.5°	18934.8	18957.0	18799.2	18846.3	18796.4
10°	18807.5	18796.4	18611.0	18702.3	18713.4
12.5°	18619.3	18586.0	18419.9	18558.4	18561.1
15°	18403.3	18331.4	18201.3	18361.8	18384.0
17.5°	18154.2	18060.1	17974.3	18181.9	18148.7
20°	17863.5	17752.8	17736.2	17963.2	17880.1
22.5°	17503.7	17417.8	17456.6	17672.5	17619.9
25°	17096.7	17022.0	17141.0	17298.8	17249.0
27.5°	16667.6	16623.3	16759.0	16880.8	16783.9
30°	16197.0	16172.1	16352.1	16451.7	16329.9
32.5°	15684.9	15693.2	15864.8	16000.5	15887.0
35°	15153.4	15189.4	15344.4	15507.7	15446.8
37.5°	14569.3	14649.6	14804.6	14990.1	14926.4
40°	13952.0	14068.3	14239.9	14464.1	14406.0
42.5°	13284.8	13431.6	13653.0	13902.2	13896.6
45°	12576.2	12781.0	13019.1	13351.3	13392.8
47.5°	11839.8	12069.6	12371.3	12814.2	12877.9
50°	11039.8	11327.7	11704.2	12235.7	12274.4
52.5°	10148.4	10541.5	11039.8	11549.1	11502.1
55°	9254.3	9700.0	10361.6	10776.8	10751.9
57.5°	8362.9	8863.9	9666.7	9962.9	9960.2
60°	7366.3	8000.2	8877.8	9102.0	8880.5
62.5°	6444.5	7125.5	8036.2	7872.9	7114.4
65°	5431.3	6281.2	7131.0	6018.2	4913.6
67.5°	4531.6	5417.5	6056.9	4121.9	3529.5
70°	3626.4	4603.6	4722.6	3058.9	3017.4
72.5°	2823.6	3864.5	3258.2	2618.8	2751.6
75°	2137.1	3100.4	2281.0	2333.6	2485.9
77.5°	1558.5	2380.7	1774.4	2045.7	2170.3
80°	1071.3	1685.9	1447.8	1719.1	1804.9
82.5°	672.7	1112.8	1159.9	1384.1	1472.7
85°	368.2	705.9	905.2	1093.5	1146.1
87.5°	152.3	426.3	692.1	844.3	888.6
90°	2.8	235.3	467.8	586.9	614.6
92.5°	2.8	179.9	382.0	473.4	492.7
95°	2.8	146.7	321.1	390.3	401.4
97.5°	5.5	116.3	268.5	323.9	335.0
100°	8.3	96.9	224.2	271.3	279.6
102.5°	11.1	77.5	188.2	227.0	235.3
105°	11.1	63.7	157.8	191.0	199.3



TEST NUMBER: P830611

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	19.4	38.8	94.1	119.0	124.6
115°	22.1	33.2	80.3	102.4	108.0
117.5°	22.1	27.7	69.2	85.8	91.4
120°	22.1	24.9	60.9	74.7	77.5
122.5°	22.1	22.1	52.6	66.4	69.2
125°	19.4	22.1	49.8	58.1	60.9
127.5°	22.1	22.1	44.3	52.6	55.4
130°	22.1	24.9	38.8	49.8	49.8
132.5°	24.9	27.7	36.0	47.1	47.1
135°	24.9	27.7	30.5	44.3	47.1
137.5°	27.7	27.7	27.7	41.5	44.3
140°	27.7	27.7	24.9	36.0	38.8
142.5°	24.9	27.7	24.9	33.2	36.0
145°	24.9	27.7	27.7	30.5	33.2
147.5°	27.7	27.7	27.7	27.7	30.5
150°	27.7	27.7	27.7	27.7	27.7
152.5°	27.7	27.7	27.7	27.7	27.7
155°	27.7	30.5	30.5	30.5	27.7
157.5°	27.7	30.5	30.5	30.5	30.5
160°	27.7	30.5	30.5	30.5	30.5
162.5°	30.5	30.5	30.5	30.5	30.5
165°	30.5	30.5	30.5	30.5	30.5
167.5°	30.5	33.2	30.5	30.5	30.5
170°	30.5	30.5	30.5	27.7	27.7
172.5°	30.5	30.5	30.5	27.7	27.7
175°	30.5	30.5	27.7	24.9	24.9
177.5°	33.2	30.5	27.7	24.9	22.1
180°	27.7	27.7	27.7	27.7	27.7



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	13.8	52.6	135.6	163.3	168.9
110°	16.6	44.3	113.5	138.4	143.9



(END OF REPORT)