

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: P830613

Luminaire Tested: **OHBL-60HE-MCL-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830613
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-L840-CD
Description: 60000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

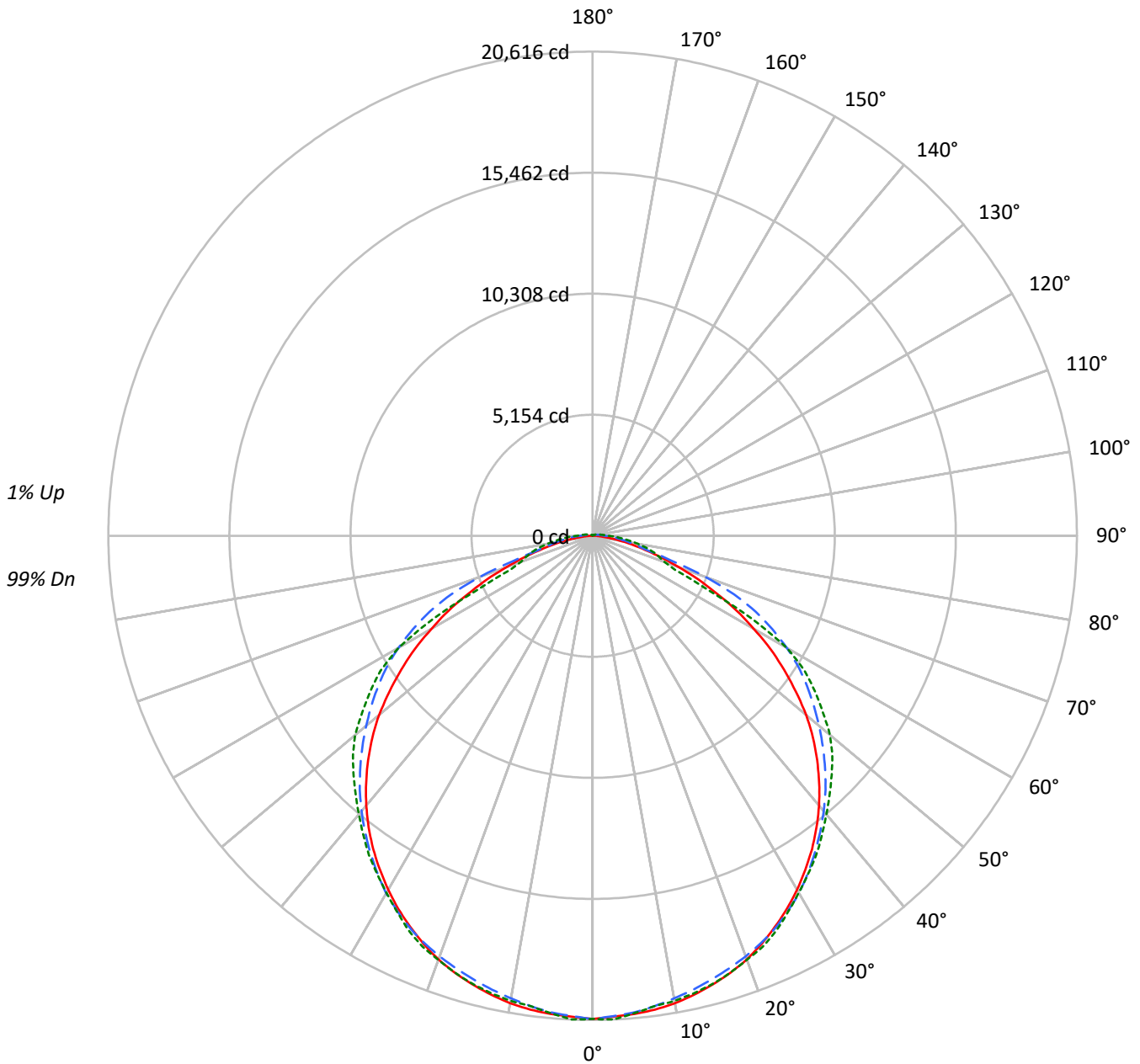
Lumens per Lamp: N/A
Luminaire Lumens: 58151.9 lumens
Efficiency: N/A
Efficacy: 172.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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: P830613

CATALOG NUMBER: OHBL-60HE-MCL-UNV-L840-CD

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	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°	32538	32538	32538
5°	32325	32065	32132
10°	32206	31579	31775
15°	32002	31216	31563
20°	31798	30987	31283
25°	31414	30757	31006
30°	30997	30394	30420
35°	30498	29817	30096
40°	29849	29222	29656
45°	28950	28533	29461
50°	27732	27749	29228
55°	25796	26978	28137
60°	23262	25848	26013
65°	19955	23753	16486
70°	16073	18543	11952
75°	12050	11007	12131
80°	8388	9153	11582
85°	4774	8386	10856



TEST NUMBER: P830613

CATALOG NUMBER: OHBL-60HE-MCL-UNV-L840-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1940.0	3.3
10°-20°	5562.9	9.6
20°-30°	8496.3	14.6
30°-40°	10308.9	17.7
40°-50°	10804.7	18.6
50°-60°	9790.7	16.8
60°-70°	6564.3	11.3
70°-80°	2947.6	5.1
80°-90°	1069.7	1.8
90°-100°	322.0	0.6
100°-110°	151.9	0.3
110°-120°	76.1	0.1
120°-130°	42.0	0.1
130°-140°	28.9	0.0
140°-150°	19.4	0.0
150°-160°	14.4	0.0
160°-170°	9.3	0.0
170°-180°	2.9	0.0
0°-30°	15999.1	27.5
0°-40°	26308.0	45.2
0°-60°	46903.4	80.7
0°-90°	57485.0	98.9
90°-120°	550.0	0.9
90°-150°	640.3	1.1
90°-180°	667.0	1.1
0°-180°	58151.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20574	20574	20574	20574	20574	
5°	20440	20512	20369	20431	20405	###
15°	19777	19700	19560	19732	19756	5584
25°	18373	18292	18420	18590	18536	8469
35°	16284	16323	16490	16665	16600	10178
45°	13515	13735	13991	14348	14392	10411
55°	9945	10424	11135	11581	11554	8877
65°	5837	6750	7663	6467	5280	5816
75°	2297	3332	2451	2508	2671	2510
85°	396	759	973	1175	1232	483
90°	3	253	503	631	660	24
95°	3	158	345	420	431	4
105°	12	68	170	205	214	14
115°	24	36	86	110	116	22
125°	21	24	54	62	65	21
135°	27	30	33	48	51	21
145°	27	30	30	33	36	18
155°	30	33	33	33	30	14
165°	33	33	33	33	33	9
175°	33	33	30	27	27	3
180°	30	30	30	30	30	



TEST NUMBER: P830613

CATALOG NUMBER: OHBL-60HE-MCL-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20574.2	20574.2	20574.2	20574.2	20574.2
2.5°	20490.9	20577.2	20470.1	20586.1	20615.9
5°	20440.4	20511.8	20369.0	20431.4	20404.7
7.5°	20348.1	20371.9	20202.4	20252.9	20199.4
10°	20211.3	20199.4	20000.1	20098.2	20110.1
12.5°	20009.0	19973.3	19794.8	19943.6	19946.5
15°	19777.0	19699.6	19559.8	19732.3	19756.1
17.5°	19509.2	19408.1	19315.9	19539.0	19503.3
20°	19196.9	19077.9	19060.0	19304.0	19214.7
22.5°	18810.1	18717.9	18759.6	18991.6	18935.1
25°	18372.8	18292.5	18420.4	18590.0	18536.4
27.5°	17911.7	17864.1	18009.9	18140.8	18036.7
30°	17406.0	17379.2	17572.6	17679.7	17548.8
32.5°	16855.6	16864.6	17049.0	17194.8	17072.8
35°	16284.5	16323.1	16489.7	16665.2	16599.8
37.5°	15656.8	15743.0	15909.6	16108.9	16040.5
40°	14993.4	15118.3	15302.8	15543.7	15481.2
42.5°	14276.4	14434.1	14672.1	14939.8	14933.9
45°	13514.9	13735.0	13990.8	14347.8	14392.4
47.5°	12723.5	12970.4	13294.7	13770.7	13839.1
50°	11863.8	12173.2	12577.8	13148.9	13190.6
52.5°	10905.9	11328.3	11863.8	12411.2	12360.6
55°	9945.0	10424.0	11135.0	11581.2	11554.4
57.5°	8987.1	9525.5	10388.3	10706.6	10703.6
60°	7916.1	8597.4	9540.4	9781.4	9543.4
62.5°	6925.5	7657.3	8636.1	8460.5	7645.4
65°	5836.7	6750.0	7663.3	6467.4	5280.4
67.5°	4869.9	5821.8	6509.0	4429.6	3793.0
70°	3897.1	4947.2	5075.1	3287.2	3242.6
72.5°	3034.4	4152.9	3501.4	2814.2	2957.0
75°	2296.6	3331.9	2451.3	2507.8	2671.4
77.5°	1674.9	2558.4	1906.9	2198.4	2332.3
80°	1151.3	1811.7	1555.9	1847.4	1939.6
82.5°	722.9	1195.9	1246.5	1487.4	1582.6
85°	395.7	758.6	972.8	1175.1	1231.6
87.5°	163.6	458.1	743.7	907.3	954.9
90°	3.0	252.9	502.8	630.7	660.4
92.5°	3.0	193.4	410.5	508.7	529.5
95°	3.0	157.7	345.1	419.5	431.4
97.5°	5.9	124.9	288.6	348.1	360.0
100°	8.9	104.1	241.0	291.5	300.5
102.5°	11.9	83.3	202.3	243.9	252.9
105°	11.9	68.4	169.6	205.3	214.2



TEST NUMBER: P830613

CATALOG NUMBER: OHBL-60HE-MCL-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	20.8	41.6	101.1	127.9	133.9
115°	23.8	35.7	86.3	110.1	116.0
117.5°	23.8	29.7	74.4	92.2	98.2
120°	23.8	26.8	65.4	80.3	83.3
122.5°	23.8	23.8	56.5	71.4	74.4
125°	20.8	23.8	53.5	62.5	65.4
127.5°	23.8	23.8	47.6	56.5	59.5
130°	23.8	26.8	41.6	53.5	53.5
132.5°	26.8	29.7	38.7	50.6	50.6
135°	26.8	29.7	32.7	47.6	50.6
137.5°	29.7	29.7	29.7	44.6	47.6
140°	29.7	29.7	26.8	38.7	41.6
142.5°	26.8	29.7	26.8	35.7	38.7
145°	26.8	29.7	29.7	32.7	35.7
147.5°	29.7	29.7	29.7	29.7	32.7
150°	29.7	29.7	29.7	29.7	29.7
152.5°	29.7	29.7	29.7	29.7	29.7
155°	29.7	32.7	32.7	32.7	29.7
157.5°	29.7	32.7	32.7	32.7	32.7
160°	29.7	32.7	32.7	32.7	32.7
162.5°	32.7	32.7	32.7	32.7	32.7
165°	32.7	32.7	32.7	32.7	32.7
167.5°	32.7	35.7	32.7	32.7	32.7
170°	32.7	32.7	32.7	29.7	29.7
172.5°	32.7	32.7	32.7	29.7	29.7
175°	32.7	32.7	29.7	26.8	26.8
177.5°	35.7	32.7	29.7	26.8	23.8
180°	29.7	29.7	29.7	29.7	29.7



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	14.9	56.5	145.8	175.5	<i>181.5</i>
110°	17.8	47.6	122.0	148.7	<i>154.7</i>



(END OF REPORT)