

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: P830182

Luminaire Tested: **OHBL-30HE-MCL-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830182
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-30HE-MCL-UNV-L850-CD
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

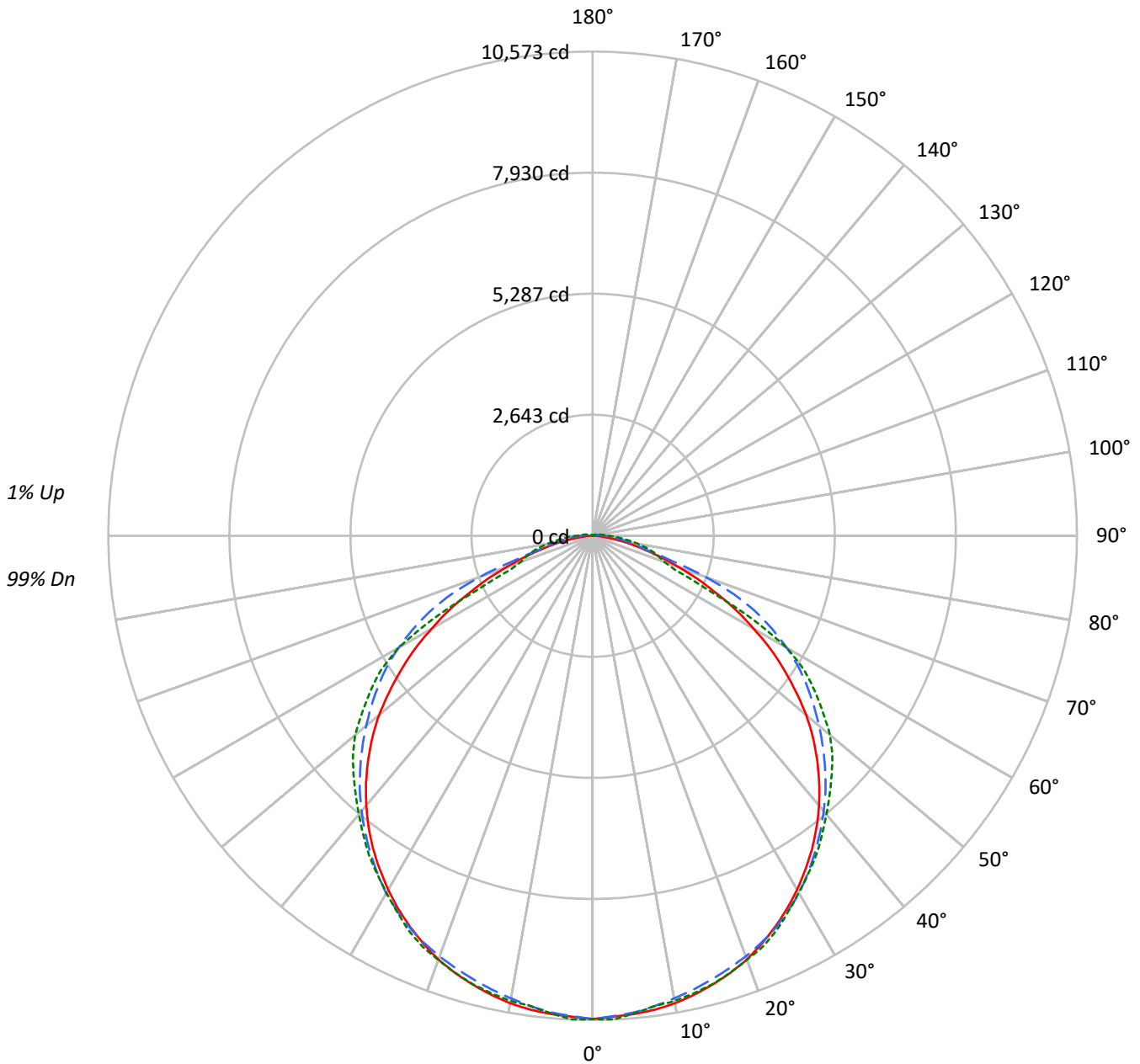
Lumens per Lamp: N/A
Luminaire Lumens: 29824.1 lumens
Efficiency: N/A
Efficacy: 182.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 163.8
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				20				20	
RC	80				70				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				99
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86	83				83
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72	70				70
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61	59				59
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53	51				51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46	44				44
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40	38				38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34				34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32	30				30
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29	27				27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16687	16687	16687
5°	16578	16445	16480
10°	16517	16196	16296
15°	16413	16010	16187
20°	16308	15892	16044
25°	16111	15774	15902
30°	15897	15588	15601
35°	15641	15292	15435
40°	15308	14987	15210
45°	14848	14634	15109
50°	14223	14232	14990
55°	13230	13836	14430
60°	11930	13257	13341
65°	10234	12182	8455
70°	8243	9510	6130
75°	6180	5645	6221
80°	4302	4694	5940
85°	2448	4301	5567



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	994.9	3.3
10°-20°	2853.0	9.6
20°-30°	4357.4	14.6
30°-40°	5287.1	17.7
40°-50°	5541.3	18.6
50°-60°	5021.3	16.8
60°-70°	3366.6	11.3
70°-80°	1511.7	5.1
80°-90°	548.6	1.8
90°-100°	165.1	0.6
100°-110°	77.9	0.3
110°-120°	39.1	0.1
120°-130°	21.5	0.1
130°-140°	14.8	0.0
140°-150°	10.0	0.0
150°-160°	7.4	0.0
160°-170°	4.8	0.0
170°-180°	1.5	0.0
0°-30°	8205.4	27.5
0°-40°	13492.4	45.2
0°-60°	24055.0	80.7
0°-90°	29482.0	98.9
90°-120°	282.1	0.9
90°-150°	328.4	1.1
90°-180°	342.0	1.1
0°-180°	29824.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10552	10552	10552	10552	10552	
5°	10483	10520	10446	10478	10465	997
15°	10143	10103	10032	10120	10132	2864
25°	9423	9382	9447	9534	9507	4343
35°	8352	8372	8457	8547	8513	5220
45°	6931	7044	7175	7358	7381	5339
55°	5100	5346	5711	5940	5926	4553
65°	2993	3462	3930	3317	2708	2983
75°	1178	1709	1257	1286	1370	1287
85°	203	389	499	603	632	248
90°	2	130	258	323	339	12
95°	2	81	177	215	221	2
105°	6	35	87	105	110	7
115°	12	18	44	56	60	11
125°	11	12	28	32	34	11
135°	14	15	17	24	26	11
145°	14	15	15	17	18	9
155°	15	17	17	17	15	7
165°	17	17	17	17	17	5
175°	17	17	15	14	14	2
180°	15	15	15	15	15	



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CATALOG NUMBER: OHBL-30HE-MCL-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10551.8	10551.8	10551.8	10551.8	10551.8
2.5°	10509.0	10553.3	10498.4	10557.9	10573.1
5°	10483.1	10519.7	10446.5	10478.5	10464.8
7.5°	10435.8	10448.0	10361.0	10387.0	10359.5
10°	10365.6	10359.5	10257.3	10307.6	10313.7
12.5°	10261.9	10243.6	10152.0	10228.3	10229.8
15°	10142.9	10103.2	10031.5	10120.0	10132.2
17.5°	10005.6	9953.7	9906.4	10020.8	10002.5
20°	9845.4	9784.3	9775.2	9900.3	9854.5
22.5°	9647.0	9599.7	9621.1	9740.1	9711.1
25°	9422.7	9381.5	9447.1	9534.1	9506.7
27.5°	9186.3	9161.8	9236.6	9303.7	9250.3
30°	8926.9	8913.2	9012.3	9067.2	9000.1
32.5°	8644.6	8649.2	8743.8	8818.6	8756.0
35°	8351.7	8371.5	8457.0	8547.0	8513.4
37.5°	8029.8	8074.0	8159.5	8261.7	8226.6
40°	7689.5	7753.6	7848.2	7971.8	7939.8
42.5°	7321.8	7402.7	7524.8	7662.1	7659.0
45°	6931.3	7044.2	7175.4	7358.5	7381.3
47.5°	6525.4	6652.1	6818.4	7062.5	7097.6
50°	6084.5	6243.2	6450.7	6743.6	6765.0
52.5°	5593.2	5809.9	6084.5	6365.2	6339.3
55°	5100.4	5346.1	5710.7	5939.6	5925.8
57.5°	4609.1	4885.3	5327.8	5491.0	5489.5
60°	4059.9	4409.3	4892.9	5016.5	4894.5
62.5°	3551.8	3927.2	4429.1	4339.1	3921.1
65°	2993.4	3461.8	3930.2	3316.9	2708.1
67.5°	2497.6	2985.8	3338.2	2271.8	1945.3
70°	1998.7	2537.2	2602.8	1685.9	1663.0
72.5°	1556.2	2129.9	1795.8	1443.3	1516.5
75°	1177.8	1708.8	1257.2	1286.2	1370.1
77.5°	859.0	1312.1	978.0	1127.5	1196.2
80°	590.4	929.2	797.9	947.5	994.8
82.5°	370.7	613.3	639.3	762.9	811.7
85°	202.9	389.1	498.9	602.7	631.6
87.5°	83.9	235.0	381.4	465.3	489.8
90°	1.5	129.7	257.8	323.4	338.7
92.5°	1.5	99.2	210.5	260.9	271.6
95°	1.5	80.9	177.0	215.1	221.2
97.5°	3.1	64.1	148.0	178.5	184.6
100°	4.6	53.4	123.6	149.5	154.1
102.5°	6.1	42.7	103.7	125.1	129.7
105°	6.1	35.1	87.0	105.3	109.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	10.7	21.4	51.9	65.6	68.7
115°	12.2	18.3	44.2	56.5	59.5
117.5°	12.2	15.3	38.1	47.3	50.3
120°	12.2	13.7	33.6	41.2	42.7
122.5°	12.2	12.2	29.0	36.6	38.1
125°	10.7	12.2	27.5	32.0	33.6
127.5°	12.2	12.2	24.4	29.0	30.5
130°	12.2	13.7	21.4	27.5	27.5
132.5°	13.7	15.3	19.8	25.9	25.9
135°	13.7	15.3	16.8	24.4	25.9
137.5°	15.3	15.3	15.3	22.9	24.4
140°	15.3	15.3	13.7	19.8	21.4
142.5°	13.7	15.3	13.7	18.3	19.8
145°	13.7	15.3	15.3	16.8	18.3
147.5°	15.3	15.3	15.3	15.3	16.8
150°	15.3	15.3	15.3	15.3	15.3
152.5°	15.3	15.3	15.3	15.3	15.3
155°	15.3	16.8	16.8	16.8	15.3
157.5°	15.3	16.8	16.8	16.8	16.8
160°	15.3	16.8	16.8	16.8	16.8
162.5°	16.8	16.8	16.8	16.8	16.8
165°	16.8	16.8	16.8	16.8	16.8
167.5°	16.8	18.3	16.8	16.8	16.8
170°	16.8	16.8	16.8	15.3	15.3
172.5°	16.8	16.8	16.8	15.3	15.3
175°	16.8	16.8	15.3	13.7	13.7
177.5°	18.3	16.8	15.3	13.7	12.2
180°	15.3	15.3	15.3	15.3	15.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	7.6	29.0	74.8	90.0	93.1
110°	9.2	24.4	62.6	76.3	79.3



(END OF REPORT)