

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: P830326

Luminaire Tested: **OHBL-36HE-MCL-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830326
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-36HE-MCL-UNV-L850-CD
Description: 36000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

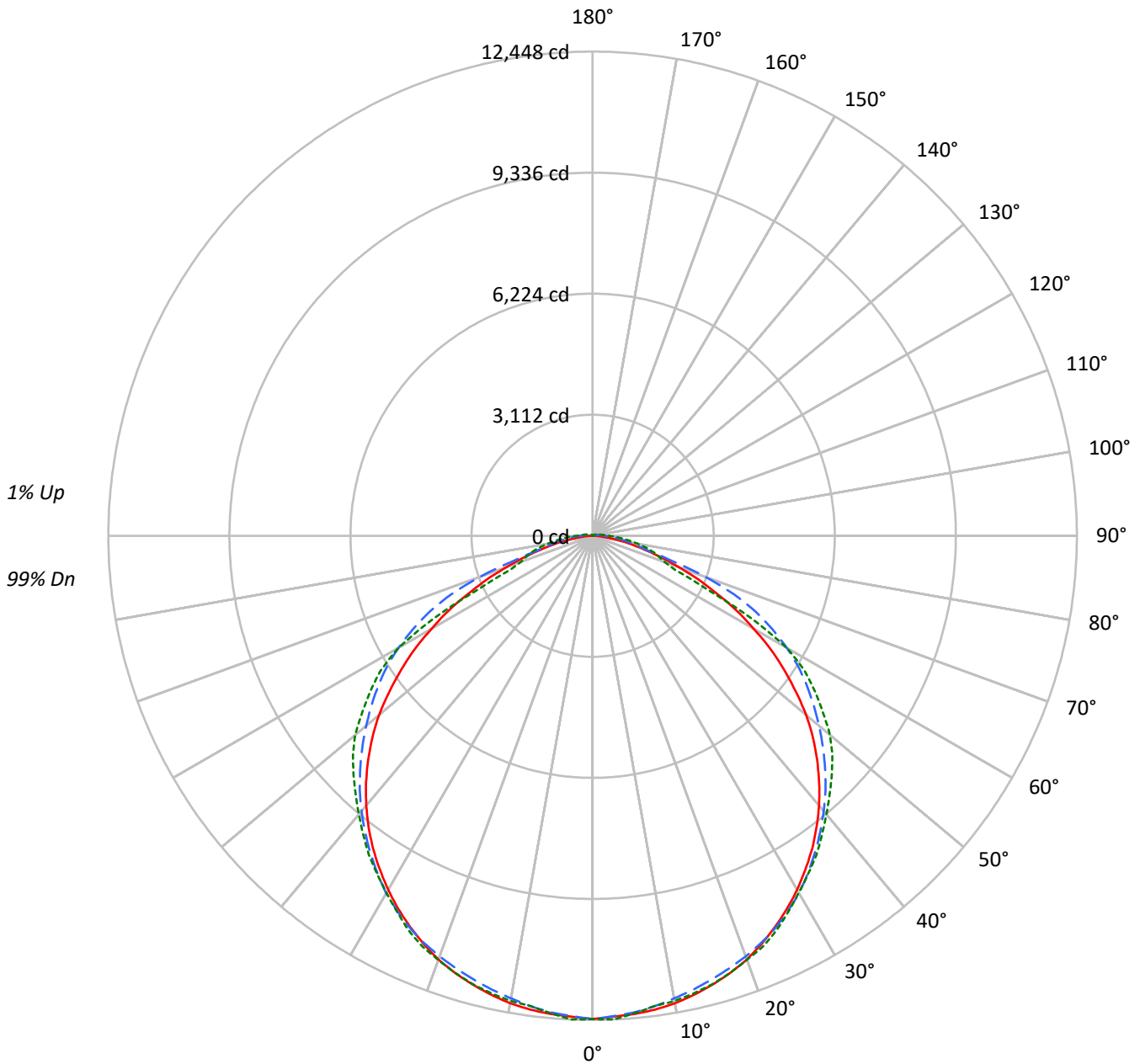
Lumens per Lamp: N/A
Luminaire Lumens: 35114.1 lumens
Efficiency: N/A
Efficacy: 165.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 212
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	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°	19647	19647	19647
5°	19519	19362	19403
10°	19447	19069	19187
15°	19324	18849	19059
20°	19200	18711	18890
25°	18969	18572	18723
30°	18717	18353	18368
35°	18416	18005	18173
40°	18024	17645	17907
45°	17481	17229	17789
50°	16745	16756	17648
55°	15577	16290	16990
60°	14046	15608	15707
65°	12049	14343	9955
70°	9705	11197	7217
75°	7277	6647	7325
80°	5065	5527	6993
85°	2882	5064	6555



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1171.4	3.3
10°-20°	3359.0	9.6
20°-30°	5130.3	14.6
30°-40°	6224.8	17.7
40°-50°	6524.2	18.6
50°-60°	5911.9	16.8
60°-70°	3963.7	11.3
70°-80°	1779.9	5.1
80°-90°	645.9	1.8
90°-100°	194.4	0.6
100°-110°	91.7	0.3
110°-120°	46.0	0.1
120°-130°	25.4	0.1
130°-140°	17.4	0.0
140°-150°	11.8	0.0
150°-160°	8.7	0.0
160°-170°	5.6	0.0
170°-180°	1.8	0.0
0°-30°	9660.8	27.5
0°-40°	15885.6	45.2
0°-60°	28321.8	80.7
0°-90°	34711.2	98.9
90°-120°	332.1	0.9
90°-150°	386.7	1.1
90°-180°	403.0	1.1
0°-180°	35114.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12423	12423	12423	12423	12423	
5°	12342	12386	12299	12337	12321	###
15°	11942	11895	11811	11915	11929	3372
25°	11094	11046	11123	11225	11193	5114
35°	9833	9856	9957	10063	10024	6146
45°	8161	8294	8448	8664	8691	6287
55°	6005	6294	6724	6993	6977	5360
65°	3524	4076	4627	3905	3188	3512
75°	1387	2012	1480	1514	1613	1516
85°	239	458	587	710	744	292
90°	2	153	304	381	399	14
95°	2	95	208	253	260	2
105°	7	41	102	124	129	8
115°	14	22	52	66	70	13
125°	13	14	32	38	40	13
135°	16	18	20	29	30	13
145°	16	18	18	20	22	11
155°	18	20	20	20	18	8
165°	20	20	20	20	20	6
175°	20	20	18	16	16	2
180°	18	18	18	18	18	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12423.4	12423.4	12423.4	12423.4	12423.4
2.5°	12373.1	12425.2	12360.5	12430.5	12448.5
5°	12342.5	12385.6	12299.4	12337.1	12321.0
7.5°	12286.8	12301.2	12198.8	12229.4	12197.0
10°	12204.2	12197.0	12076.7	12136.0	12143.1
12.5°	12082.1	12060.5	11952.7	12042.5	12044.3
15°	11941.9	11895.2	11810.8	11915.0	11929.4
17.5°	11780.3	11719.2	11663.5	11798.2	11776.7
20°	11591.7	11519.8	11509.0	11656.3	11602.4
22.5°	11358.1	11302.5	11327.6	11467.7	11433.6
25°	11094.1	11045.6	11122.8	11225.2	11192.9
27.5°	10815.7	10786.9	10874.9	10954.0	10891.1
30°	10510.3	10494.1	10610.9	10675.5	10596.5
32.5°	10178.0	10183.3	10294.7	10382.7	10309.1
35°	9833.1	9856.4	9957.0	10063.0	10023.5
37.5°	9454.0	9506.1	9606.7	9727.1	9685.8
40°	9053.5	9128.9	9240.3	9385.8	9348.1
42.5°	8620.5	8715.8	8859.5	9021.1	9017.5
45°	8160.7	8293.6	8448.1	8663.7	8690.6
47.5°	7682.9	7832.0	8027.8	8315.2	8356.5
50°	7163.7	7350.5	7594.8	7939.7	7964.9
52.5°	6585.3	6840.4	7163.7	7494.3	7463.7
55°	6005.1	6294.3	6723.6	6993.1	6976.9
57.5°	5426.7	5751.8	6272.8	6465.0	6463.2
60°	4780.0	5191.4	5760.8	5906.3	5762.6
62.5°	4181.8	4623.7	5214.7	5108.7	4616.5
65°	3524.4	4075.9	4627.3	3905.2	3188.5
67.5°	2940.6	3515.4	3930.4	2674.7	2290.3
70°	2353.2	2987.3	3064.5	1984.9	1958.0
72.5°	1832.2	2507.7	2114.3	1699.3	1785.5
75°	1386.8	2011.9	1480.2	1514.3	1613.1
77.5°	1011.3	1544.8	1151.4	1327.5	1408.3
80°	695.2	1094.0	939.5	1115.5	1171.2
82.5°	436.5	722.1	752.7	898.2	955.6
85°	238.9	458.1	587.4	709.5	743.7
87.5°	98.8	276.6	449.1	547.9	576.6
90°	1.8	152.7	303.6	380.8	398.8
92.5°	1.8	116.8	247.9	307.2	319.7
95°	1.8	95.2	208.4	253.3	260.5
97.5°	3.6	75.4	174.2	210.2	217.4
100°	5.4	62.9	145.5	176.0	181.4
102.5°	7.2	50.3	122.1	147.3	152.7
105°	7.2	41.3	102.4	123.9	129.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	12.6	25.1	61.1	77.2	80.8
115°	14.4	21.6	52.1	66.5	70.1
117.5°	14.4	18.0	44.9	55.7	59.3
120°	14.4	16.2	39.5	48.5	50.3
122.5°	14.4	14.4	34.1	43.1	44.9
125°	12.6	14.4	32.3	37.7	39.5
127.5°	14.4	14.4	28.7	34.1	35.9
130°	14.4	16.2	25.1	32.3	32.3
132.5°	16.2	18.0	23.4	30.5	30.5
135°	16.2	18.0	19.8	28.7	30.5
137.5°	18.0	18.0	18.0	26.9	28.7
140°	18.0	18.0	16.2	23.4	25.1
142.5°	16.2	18.0	16.2	21.6	23.4
145°	16.2	18.0	18.0	19.8	21.6
147.5°	18.0	18.0	18.0	18.0	19.8
150°	18.0	18.0	18.0	18.0	18.0
152.5°	18.0	18.0	18.0	18.0	18.0
155°	18.0	19.8	19.8	19.8	18.0
157.5°	18.0	19.8	19.8	19.8	19.8
160°	18.0	19.8	19.8	19.8	19.8
162.5°	19.8	19.8	19.8	19.8	19.8
165°	19.8	19.8	19.8	19.8	19.8
167.5°	19.8	21.6	19.8	19.8	19.8
170°	19.8	19.8	19.8	18.0	18.0
172.5°	19.8	19.8	19.8	18.0	18.0
175°	19.8	19.8	18.0	16.2	16.2
177.5°	21.6	19.8	18.0	16.2	14.4
180°	18.0	18.0	18.0	18.0	18.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	9.0	34.1	88.0	106.0	109.6
110°	10.8	28.7	73.6	89.8	93.4



(END OF REPORT)