

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: P830325

Luminaire Tested: **OHBL-36HE-MCL-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830325
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-L840-CD
Description: 36000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

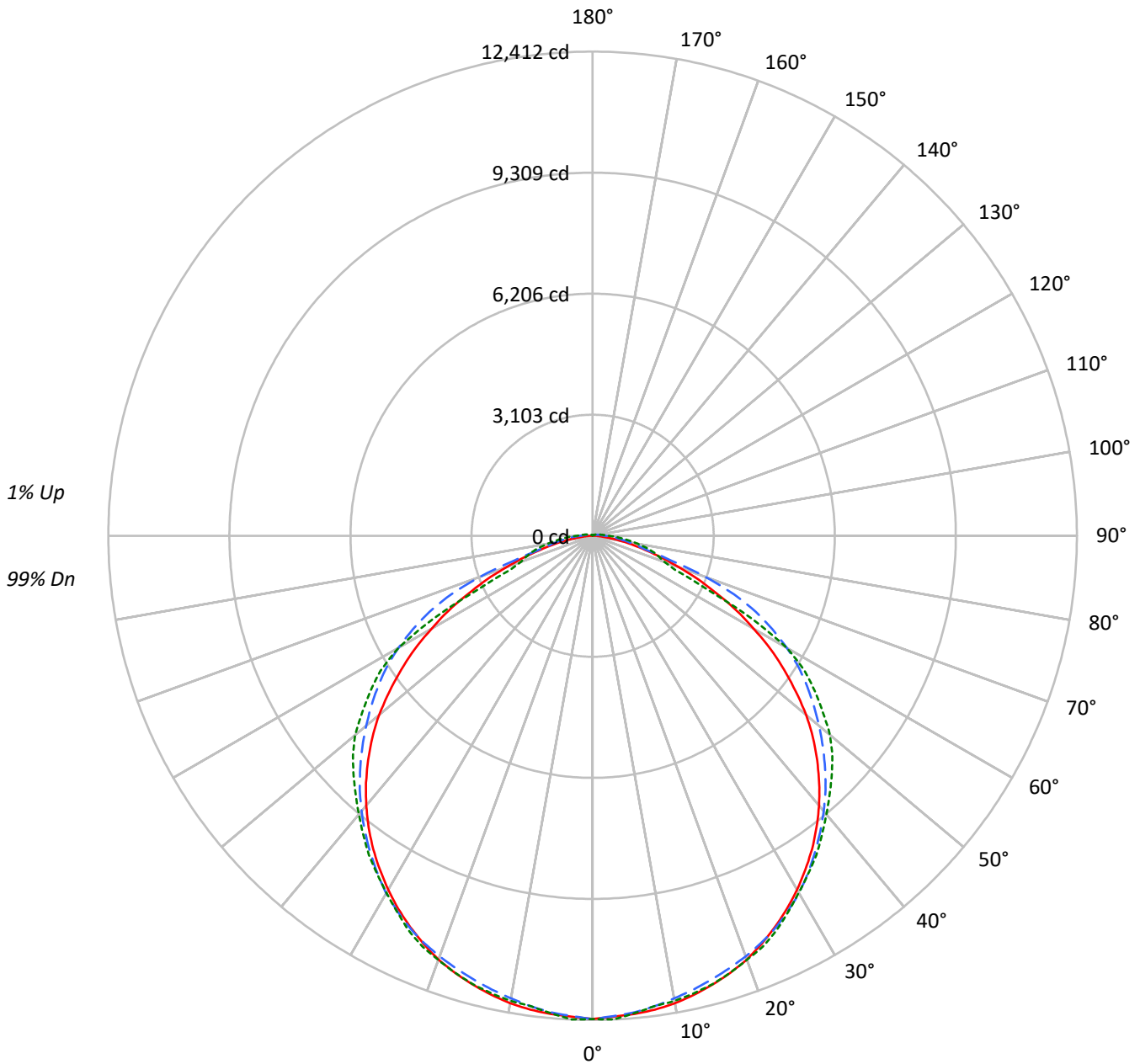
Lumens per Lamp: N/A
Luminaire Lumens: 35012.0 lumens
Efficiency: N/A
Efficacy: 165.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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°	19590	19590	19590
5°	19462	19306	19346
10°	19391	19013	19131
15°	19268	18794	19003
20°	19145	18657	18835
25°	18914	18518	18668
30°	18662	18299	18315
35°	18362	17952	18120
40°	17972	17594	17855
45°	17430	17179	17738
50°	16697	16707	17597
55°	15532	16242	16940
60°	14005	15563	15662
65°	12014	14301	9926
70°	9677	11164	7196
75°	7255	6627	7304
80°	5050	5510	6973
85°	2874	5049	6536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1168.0	3.3
10°-20°	3349.3	9.6
20°-30°	5115.4	14.6
30°-40°	6206.8	17.7
40°-50°	6505.3	18.6
50°-60°	5894.8	16.8
60°-70°	3952.2	11.3
70°-80°	1774.7	5.1
80°-90°	644.0	1.8
90°-100°	193.8	0.6
100°-110°	91.5	0.3
110°-120°	45.8	0.1
120°-130°	25.3	0.1
130°-140°	17.4	0.0
140°-150°	11.7	0.0
150°-160°	8.7	0.0
160°-170°	5.6	0.0
170°-180°	1.8	0.0
0°-30°	9632.7	27.5
0°-40°	15839.5	45.2
0°-60°	28239.5	80.7
0°-90°	34610.4	98.9
90°-120°	331.2	0.9
90°-150°	385.5	1.1
90°-180°	402.0	1.1
0°-180°	35012.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12387	12387	12387	12387	12387	
5°	12307	12350	12264	12301	12285	###
15°	11907	11861	11776	11880	11895	3362
25°	11062	11014	11090	11193	11160	5099
35°	9804	9828	9928	10034	9994	6128
45°	8137	8270	8424	8638	8665	6268
55°	5988	6276	6704	6973	6957	5345
65°	3514	4064	4614	3894	3179	3501
75°	1383	2006	1476	1510	1608	1511
85°	238	457	586	708	742	291
90°	2	152	303	380	398	14
95°	2	95	208	252	260	2
105°	7	41	102	124	129	8
115°	14	22	52	66	70	13
125°	12	14	32	38	39	12
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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CATALOG NUMBER: OHBL-36HE-MCL-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12387.3	12387.3	12387.3	12387.3	12387.3
2.5°	12337.1	12389.1	12324.6	12394.4	12412.4
5°	12306.7	12349.7	12263.7	12301.3	12285.2
7.5°	12251.2	12265.5	12163.4	12193.8	12161.6
10°	12168.8	12161.6	12041.6	12100.7	12107.9
12.5°	12047.0	12025.5	11918.0	12007.6	12009.4
15°	11907.3	11860.7	11776.5	11880.4	11894.7
17.5°	11746.1	11685.2	11629.6	11764.0	11742.5
20°	11558.0	11486.3	11475.6	11622.5	11568.7
22.5°	11325.2	11269.6	11294.7	11434.4	11400.4
25°	11061.9	11013.5	11090.5	11192.6	11160.4
27.5°	10784.2	10755.6	10843.3	10922.2	10859.5
30°	10479.7	10463.6	10580.1	10644.5	10565.7
32.5°	10148.4	10153.8	10264.8	10352.6	10279.1
35°	9804.5	9827.8	9928.1	10033.8	9994.4
37.5°	9426.6	9478.5	9578.8	9698.8	9657.6
40°	9027.2	9102.4	9213.4	9358.5	9320.9
42.5°	8595.5	8690.4	8833.7	8994.9	8991.3
45°	8137.0	8269.5	8423.6	8638.5	8665.4
47.5°	7660.6	7809.2	8004.4	8291.0	8332.2
50°	7142.9	7329.2	7572.8	7916.7	7941.8
52.5°	6566.2	6820.5	7142.9	7472.5	7442.0
55°	5987.7	6276.0	6704.1	6972.8	6956.6
57.5°	5410.9	5735.1	6254.5	6446.2	6444.4
60°	4766.1	5176.3	5744.1	5889.1	5745.9
62.5°	4169.7	4610.3	5199.6	5093.9	4603.1
65°	3514.1	4064.0	4613.9	3893.9	3179.2
67.5°	2932.0	3505.2	3918.9	2667.0	2283.7
70°	2346.3	2978.6	3055.6	1979.2	1952.3
72.5°	1826.9	2500.4	2108.1	1694.4	1780.4
75°	1382.7	2006.0	1475.9	1509.9	1608.4
77.5°	1008.4	1540.3	1148.1	1323.6	1404.2
80°	693.2	1090.8	936.7	1112.3	1167.8
82.5°	435.2	720.0	750.5	895.6	952.9
85°	238.2	456.7	585.7	707.5	741.5
87.5°	98.5	275.8	447.8	546.3	574.9
90°	1.8	152.2	302.7	379.7	397.6
92.5°	1.8	116.4	247.2	306.3	318.8
95°	1.8	94.9	207.8	252.5	259.7
97.5°	3.6	75.2	173.7	209.6	216.7
100°	5.4	62.7	145.1	175.5	180.9
102.5°	7.2	50.2	121.8	146.9	152.2
105°	7.2	41.2	102.1	123.6	129.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	12.5	25.1	60.9	77.0	80.6
115°	14.3	21.5	51.9	66.3	69.9
117.5°	14.3	17.9	44.8	55.5	59.1
120°	14.3	16.1	39.4	48.4	50.2
122.5°	14.3	14.3	34.0	43.0	44.8
125°	12.5	14.3	32.2	37.6	39.4
127.5°	14.3	14.3	28.7	34.0	35.8
130°	14.3	16.1	25.1	32.2	32.2
132.5°	16.1	17.9	23.3	30.4	30.4
135°	16.1	17.9	19.7	28.7	30.4
137.5°	17.9	17.9	17.9	26.9	28.7
140°	17.9	17.9	16.1	23.3	25.1
142.5°	16.1	17.9	16.1	21.5	23.3
145°	16.1	17.9	17.9	19.7	21.5
147.5°	17.9	17.9	17.9	17.9	19.7
150°	17.9	17.9	17.9	17.9	17.9
152.5°	17.9	17.9	17.9	17.9	17.9
155°	17.9	19.7	19.7	19.7	17.9
157.5°	17.9	19.7	19.7	19.7	19.7
160°	17.9	19.7	19.7	19.7	19.7
162.5°	19.7	19.7	19.7	19.7	19.7
165°	19.7	19.7	19.7	19.7	19.7
167.5°	19.7	21.5	19.7	19.7	19.7
170°	19.7	19.7	19.7	17.9	17.9
172.5°	19.7	19.7	19.7	17.9	17.9
175°	19.7	19.7	17.9	16.1	16.1
177.5°	21.5	19.7	17.9	16.1	14.3
180°	17.9	17.9	17.9	17.9	17.9



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	9.0	34.0	87.8	105.7	109.3
110°	10.7	28.7	73.4	89.6	93.1



(END OF REPORT)