

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: P830361

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-36HE-NL-UNV-L840-CD
Description: 36000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

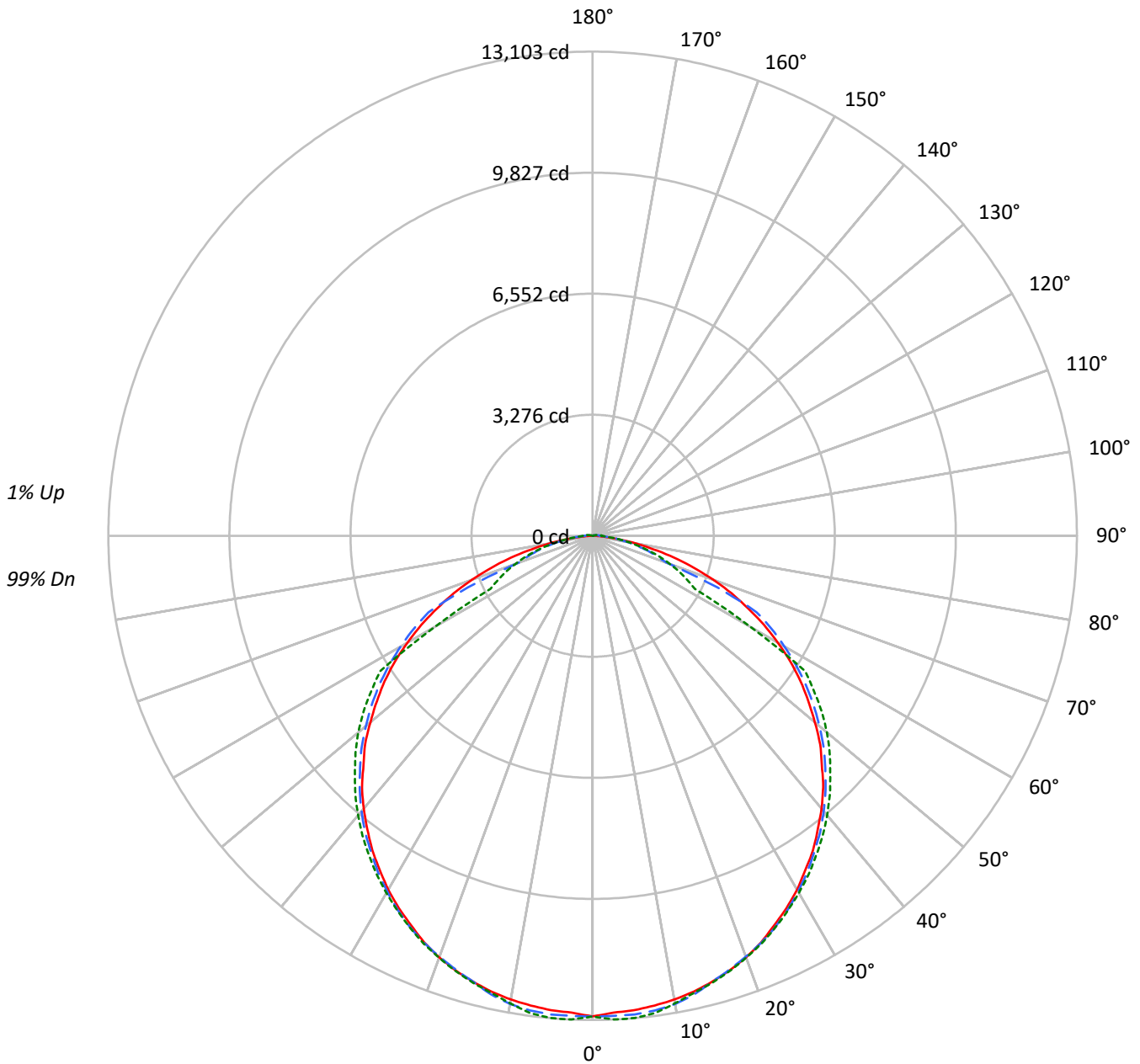
Lumens per Lamp: N/A
Luminaire Lumens: 36520.0 lumens
Efficiency: N/A
Efficacy: 172.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 212
Input Voltage (V): NR
Input Current (Ain): 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	111	111	111	106	106	106	102	102	102	99																			
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84																			
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73	71																			
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60																			
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51																			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39																			
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30																			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20571	20571	20571
5°	20457	20642	20798
10°	20463	20657	20632
15°	20460	20456	20501
20°	20432	20401	20451
25°	20292	20395	20411
30°	20198	20302	20382
35°	20067	20177	20367
40°	19894	20082	20379
45°	19607	19903	20337
50°	19311	19705	20356
55°	18942	19433	20132
60°	18307	18957	15673
65°	17321	18328	10548
70°	16021	9730	10237
75°	13974	9246	9776
80°	10747	8482	8959
85°	5424	8572	8779



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1235.8	3.4
10°-20°	3538.3	9.7
20°-30°	5383.9	14.7
30°-40°	6546.0	17.9
40°-50°	6882.8	18.8
50°-60°	6284.8	17.2
60°-70°	4028.9	11.0
70°-80°	1903.2	5.2
80°-90°	527.7	1.4
90°-100°	139.8	0.4
100°-110°	38.3	0.1
110°-120°	10.6	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	10157.9	27.8
0°-40°	16703.9	45.7
0°-60°	29871.6	81.8
0°-90°	36331.4	99.5
90°-120°	188.6	0.5
90°-150°	188.6	0.5
90°-180°	189.0	0.5
0°-180°	36520.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13008	13008	13008	13008	13008	
5°	12886	12937	13003	13074	13101	###
15°	12496	12590	12494	12512	12521	3528
25°	11629	11647	11688	11706	11697	5366
35°	10394	10332	10451	10579	10549	6496
45°	8767	8751	8899	9109	9093	6776
55°	6870	6818	7048	7283	7302	6127
65°	4629	4629	4898	2810	2819	4589
75°	2287	2330	1513	1593	1600	2411
85°	299	379	472	511	484	442
90°	0	128	210	249	244	13
95°	7	66	151	203	203	4
105°	11	25	36	36	34	11
115°	11	16	23	16	2	8
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13007.5	13007.5	13007.5	13007.5	13007.5
2.5°	12916.1	12959.6	13007.5	13069.1	13103.2
5°	12886.4	12936.7	13002.9	13073.7	13101.0
7.5°	12822.6	12893.2	12957.2	13007.5	13023.4
10°	12742.6	12827.2	12863.7	12859.1	12847.8
12.5°	12635.4	12724.5	12713.2	12660.5	12669.7
15°	12496.2	12589.7	12494.0	12512.1	12521.3
17.5°	12331.8	12423.2	12311.3	12347.8	12350.2
20°	12140.2	12208.6	12121.9	12151.6	12151.6
22.5°	11909.7	11957.5	11921.1	11941.6	11946.2
25°	11628.9	11647.0	11688.1	11706.5	11697.3
27.5°	11359.7	11336.8	11416.7	11460.0	11437.0
30°	11060.6	11024.1	11117.6	11188.4	11161.1
32.5°	10718.1	10695.4	10802.7	10887.1	10871.1
35°	10394.1	10332.5	10451.1	10579.0	10549.2
37.5°	10010.6	9974.1	10108.7	10243.6	10227.6
40°	9636.3	9574.7	9727.6	9887.4	9871.4
42.5°	9234.7	9161.5	9328.2	9520.1	9501.7
45°	8766.6	8750.7	8899.0	9109.0	9093.1
47.5°	8351.5	8271.5	8479.1	8682.3	8700.7
50°	7849.1	7819.6	8009.1	8255.5	8273.7
52.5°	7358.6	7338.0	7536.4	7785.3	7817.2
55°	6870.0	6817.5	7048.0	7283.2	7301.5
57.5°	6347.5	6292.7	6527.8	6783.4	6822.1
60°	5788.1	5735.7	5993.5	6231.0	4955.2
62.5°	5228.9	5192.5	5461.9	3868.7	3117.9
65°	4628.7	4628.7	4897.9	2809.6	2818.8
67.5°	4067.4	4030.9	3652.0	2524.2	2524.2
70°	3464.7	3478.5	2104.2	2211.8	2213.9
72.5°	2859.9	2910.1	1816.9	1903.4	1908.0
75°	2286.9	2330.4	1513.2	1593.2	1599.9
77.5°	1679.9	1291.8	1216.4	1278.3	1280.5
80°	1180.0	814.8	931.3	990.5	983.7
82.5°	689.2	570.5	682.4	725.9	723.5
85°	298.9	378.9	472.4	511.3	483.8
87.5°	95.7	235.1	294.3	317.3	314.9
90°	0.0	127.8	210.0	248.7	244.3
92.5°	0.0	100.3	182.7	228.4	230.5
95°	6.8	66.2	150.8	203.2	203.2
97.5°	4.6	47.8	107.3	159.7	164.3
100°	4.6	38.7	70.8	114.1	116.5
102.5°	11.4	31.9	43.3	73.0	75.4
105°	11.4	25.1	36.5	36.5	34.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	13.8	18.4	25.1	18.4	2.2
115°	11.4	15.9	22.7	15.9	2.2
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	11.4	22.7	31.9	20.5	6.8
110°	13.8	20.5	27.3	18.4	2.2



(END OF REPORT)