

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: P827195

Luminaire Tested: **OHBL-36HE-NL-UNV-L840-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827195
REPORT IS A COMBINATION OF REPORTS P826171 AND G3-2310-221-8
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-UPL18
Description: 36000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS AND 1800 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

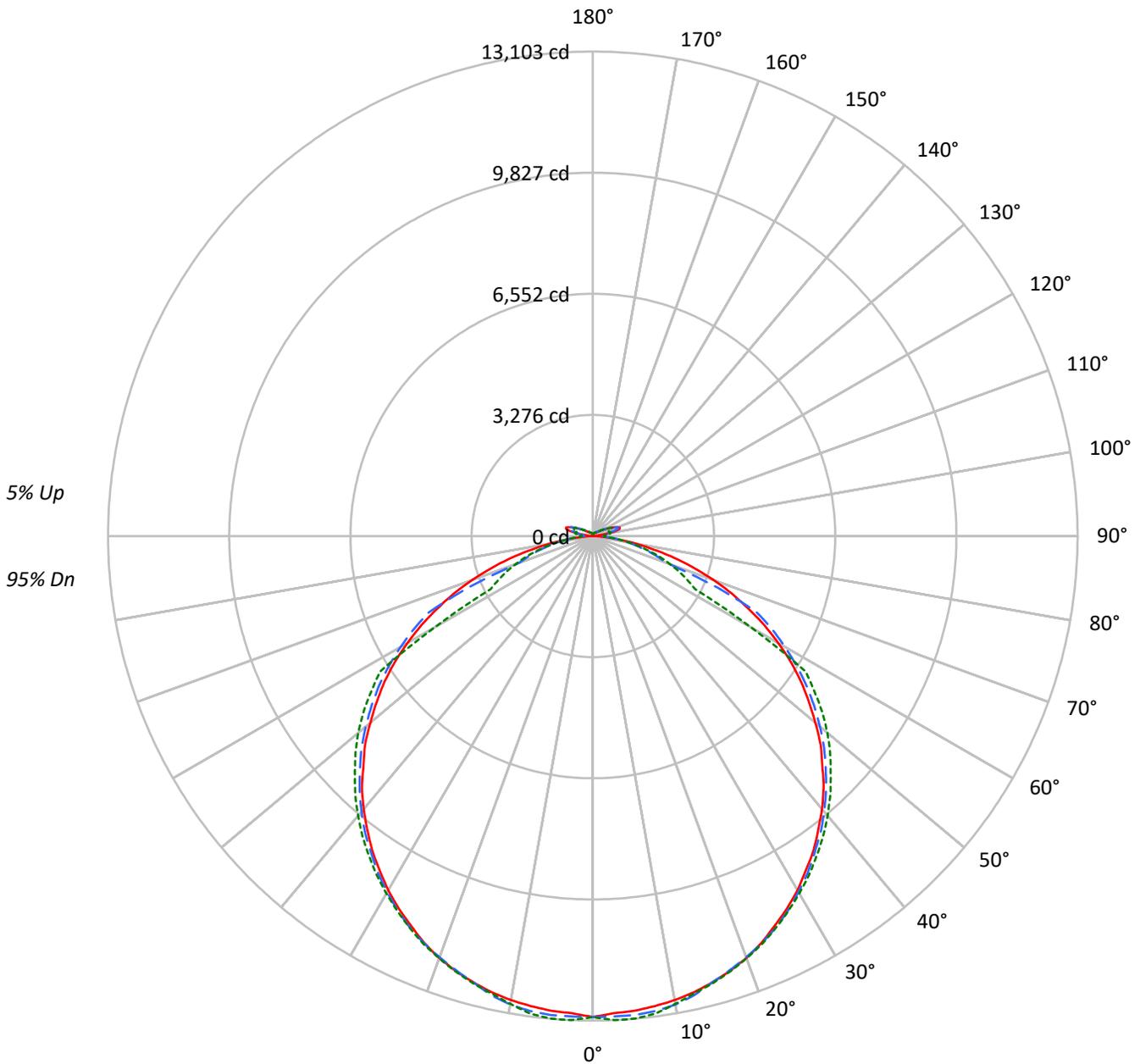
Lumens per Lamp: N/A
Luminaire Lumens: 38309.9 lumens
Efficiency: N/A
Efficacy: 170.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 224.3
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	118	118	118	118	114	114	114	114	108	108	108	103	103	103	97	97	97	97	97	97	95
1	108	104	99	96	105	101	97	94	96	93	90	91	88	86	86	85	83	83	83	83	80
2	99	91	84	79	95	88	82	77	84	79	75	80	76	72	76	73	70	70	70	70	67
3	90	80	72	65	87	78	70	65	74	68	63	71	65	61	67	63	59	59	59	59	57
4	82	71	62	56	80	69	61	55	66	59	54	63	57	52	60	55	51	51	51	51	49
5	76	63	54	48	73	62	53	47	59	52	46	56	50	45	54	49	44	44	44	44	42
6	70	57	48	42	68	56	47	41	53	46	41	51	45	40	49	43	39	39	39	39	37
7	65	51	43	37	63	50	42	36	48	41	36	46	40	35	45	39	35	35	35	35	33
8	60	47	38	33	58	46	38	32	44	37	32	43	36	31	41	35	31	31	31	31	29
9	56	43	35	29	55	42	34	29	41	34	29	39	33	28	38	32	28	28	28	28	26
10	53	40	32	27	51	39	31	26	38	31	26	36	30	26	35	29	25	25	25	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20571	20571	20571
5°	20358	20538	20750
10°	20264	20448	20536
15°	20159	20143	20356
20°	20027	19979	20256
25°	19780	19858	20163
30°	19570	19645	20075
35°	19316	19390	19996
40°	19008	19151	19937
45°	18575	18812	19813
50°	18112	18431	19734
55°	17550	17947	19399
60°	16700	17227	14987
65°	15477	16301	9982
70°	13899	8393	9543
75°	11574	7601	8898
80°	8172	6383	7790
85°	3317	5155	6741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1235.8	3.2
10°-20°	3538.3	9.2
20°-30°	5383.9	14.1
30°-40°	6546.0	17.1
40°-50°	6882.8	18.0
50°-60°	6284.8	16.4
60°-70°	4028.9	10.5
70°-80°	1903.2	5.0
80°-90°	532.2	1.4
90°-100°	311.0	0.8
100°-110°	632.9	1.7
110°-120°	521.5	1.4
120°-130°	245.3	0.6
130°-140°	122.6	0.3
140°-150°	71.2	0.2
150°-160°	41.5	0.1
160°-170°	21.5	0.1
170°-180°	6.6	0.0
0°-30°	10157.9	26.5
0°-40°	16703.9	43.6
0°-60°	29871.6	78.0
0°-90°	36335.9	94.8
90°-120°	1465.4	3.8
90°-150°	1904.4	5.0
90°-180°	1974.0	5.2
0°-180°	38309.9	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°	4	153	244	294	294	16
95°	45	148	280	370	394	123
105°	752	759	662	478	441	714
115°	524	535	541	528	513	526
125°	250	262	269	268	266	235
135°	148	151	156	158	159	117
145°	108	110	113	114	114	68
155°	86	88	89	90	90	40
165°	74	75	75	76	76	21
175°	67	67	68	68	68	6
180°	67	67	67	67	67	



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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°	4.0	152.8	244.0	293.7	294.3
92.5°	13.0	133.3	237.7	304.4	314.5
95°	44.8	148.2	279.8	370.2	394.2
97.5°	199.6	260.8	345.3	441.7	462.3
100°	406.6	460.7	424.8	485.1	493.5
102.5°	640.4	659.9	497.3	483.0	479.4
105°	752.4	759.1	662.5	477.5	441.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	615.8	624.4	619.1	596.4	555.2
115°	524.4	534.9	540.7	527.9	513.2
117.5°	437.0	440.0	442.0	440.0	441.0
120°	365.0	372.0	376.0	373.0	371.0
122.5°	305.0	314.0	319.0	316.0	314.0
125°	250.0	262.0	269.0	268.0	266.0
127.5°	212.0	221.0	230.0	229.0	227.0
130°	184.0	191.0	197.0	198.0	199.0
132.5°	165.0	168.0	174.0	175.0	177.0
135°	148.0	151.0	156.0	158.0	159.0
137.5°	135.0	138.0	142.0	144.0	145.0
140°	124.0	127.0	130.0	132.0	133.0
142.5°	115.0	118.0	121.0	122.0	123.0
145°	108.0	110.0	113.0	114.0	114.0
147.5°	101.0	103.0	105.0	107.0	107.0
150°	95.0	97.0	99.0	100.0	101.0
152.5°	91.0	92.0	94.0	95.0	95.0
155°	86.0	88.0	89.0	90.0	90.0
157.5°	83.0	84.0	85.0	86.0	86.0
160°	80.0	80.0	81.0	82.0	82.0
162.5°	77.0	77.0	78.0	79.0	79.0
165°	74.0	75.0	75.0	76.0	76.0
167.5°	72.0	72.0	73.0	73.0	74.0
170°	70.0	70.0	71.0	71.0	71.0
172.5°	68.0	69.0	69.0	69.0	69.0
175°	67.0	67.0	68.0	68.0	68.0
177.5°	66.0	67.0	67.0	67.0	67.0
180°	67.0	67.0	67.0	67.0	67.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	759.4	770.7	721.9	556.5	455.8
110°	698.8	713.5	690.3	621.4	536.2



(END OF REPORT)