

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: P827196

Luminaire Tested: **OHBL-36HE-NL-UNV-L840-CD-UPL36**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P827196  
REPORT IS A COMBINATION OF REPORTS P826315 AND G3-2310-221-2  
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-UPL36  
Description: 36000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS AND 3600 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

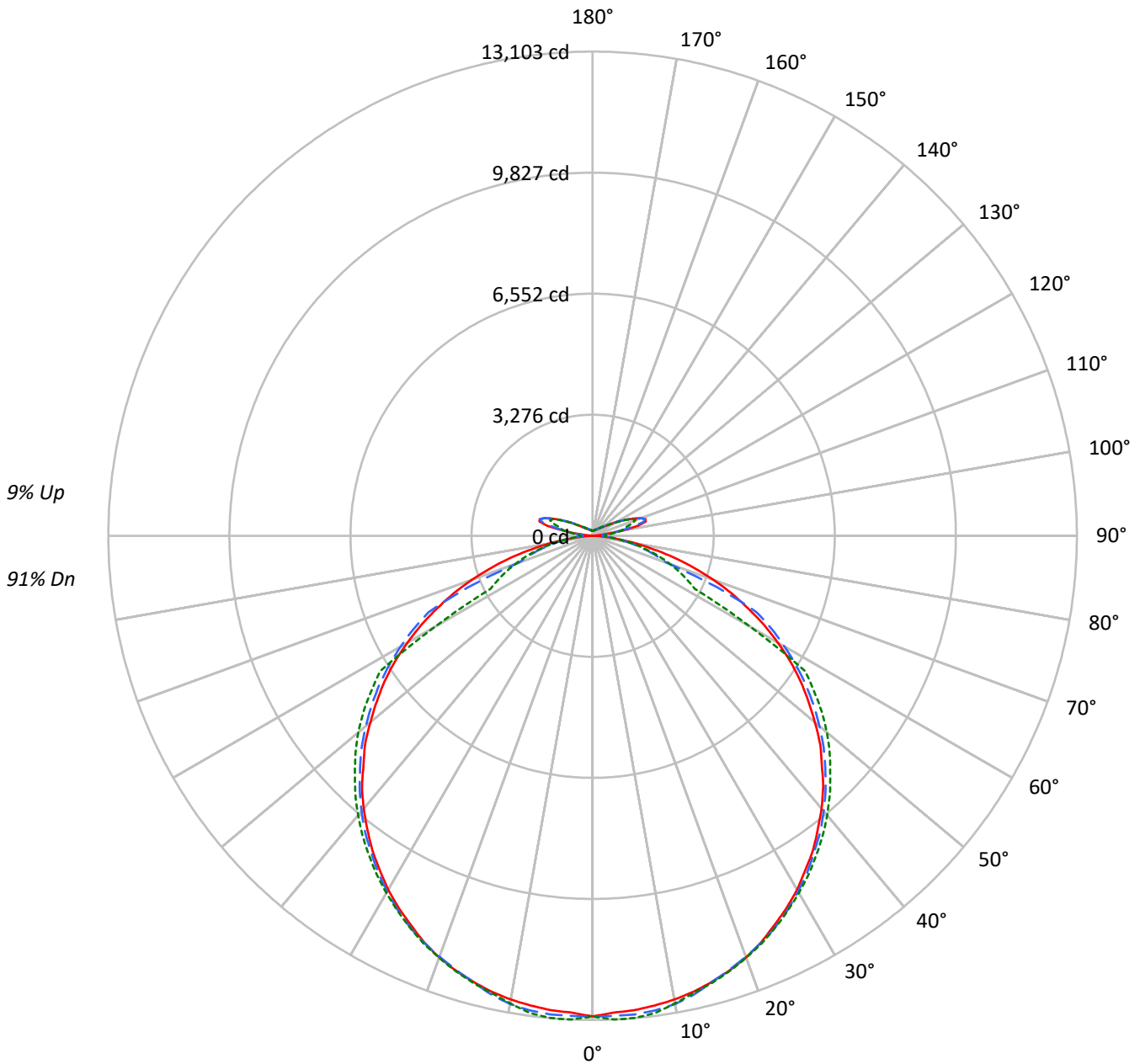
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40102.1 lumens  
Efficiency: N/A  
Efficacy: 166.5 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): 240.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

TEST NUMBER: P827196

CATALOG NUMBER: OHBL-36HE-NL-UNV-L840-CD-UPL36

### Luminous Intensity Polar Plot





TEST NUMBER: P827196

CATALOG NUMBER: OHBL-36HE-NL-UNV-L840-CD-UPL36

**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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	93	93	93	91
1	107	103	99	95	103	99	96	92	93	91	88	88	86	84	83	81	79	79	79	79	77
2	98	90	83	78	94	87	81	76	82	77	73	77	73	70	73	70	67	67	67	67	64
3	89	79	71	65	86	77	69	64	72	66	61	68	63	59	65	61	57	57	57	57	54
4	82	70	61	55	79	68	60	54	64	58	52	61	55	51	58	53	49	49	49	49	47
5	75	62	54	47	72	61	53	47	58	51	45	55	49	44	52	47	43	43	43	43	40
6	69	56	47	41	67	55	47	41	52	45	40	49	43	38	47	42	37	37	37	37	35
7	64	51	42	36	62	50	42	36	47	40	35	45	39	34	43	37	33	33	33	33	31
8	60	46	38	32	58	45	37	32	43	36	31	41	35	30	39	34	30	30	30	30	28
9	56	42	34	29	54	41	34	29	40	33	28	38	32	27	36	31	27	27	27	27	25
10	52	39	31	26	50	38	31	26	37	30	25	35	29	25	34	28	24	24	24	24	23

**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



TEST NUMBER: P827196

CATALOG NUMBER: OHBL-36HE-NL-UNV-L840-CD-UPL36

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1235.8	3.1
10°-20°	3538.3	8.8
20°-30°	5383.9	13.4
30°-40°	6546.0	16.3
40°-50°	6882.8	17.2
50°-60°	6284.8	15.7
60°-70°	4028.9	10.0
70°-80°	1903.2	4.7
80°-90°	535.4	1.3
90°-100°	414.9	1.0
100°-110°	1284.4	3.2
110°-120°	1041.9	2.6
120°-130°	488.1	1.2
130°-140°	247.1	0.6
140°-150°	144.5	0.4
150°-160°	84.7	0.2
160°-170°	44.1	0.1
170°-180°	13.4	0.0
0°-30°	10157.9	25.3
0°-40°	16703.9	41.7
0°-60°	29871.6	74.5
0°-90°	36339.1	90.6
90°-120°	2741.1	6.8
90°-150°	3620.8	9.0
90°-180°	3763.0	9.4
0°-180°	40102.1	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°	8	177	273	321	317	19
95°	69	190	316	413	429	234
105°	1488	1499	1422	1068	965	1415
115°	1041	1032	1047	1047	1023	1049
125°	507	525	537	528	518	477
135°	300	307	315	318	319	237
145°	218	223	228	231	232	139
155°	176	179	182	184	184	82
165°	151	153	154	155	156	43
175°	138	138	139	139	140	13
180°	136	136	136	136	136	



TEST NUMBER: P827196

CATALOG NUMBER: OHBL-36HE-NL-UNV-L840-CD-UPL36

**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°	8.0	176.8	273.0	320.7	317.3
92.5°	25.0	160.3	259.7	324.4	332.5
95°	68.8	190.2	315.8	413.2	429.2
97.5°	378.6	449.8	456.3	576.7	605.3
100°	807.6	862.7	709.8	758.1	780.5
102.5°	1269.4	1306.9	1051.3	907.0	879.4
105°	1488.4	1499.1	1422.5	1067.5	965.3



TEST NUMBER: P827196

CATALOG NUMBER: OHBL-36HE-NL-UNV-L840-CD-UPL36

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1223.8	1231.4	1227.1	1216.4	1168.2
115°	1041.4	1031.9	1046.7	1046.9	1023.2
117.5°	881.0	871.0	879.0	875.0	864.0
120°	741.0	741.0	751.0	737.0	729.0
122.5°	614.0	628.0	635.0	625.0	612.0
125°	507.0	525.0	537.0	528.0	518.0
127.5°	435.0	441.0	455.0	450.0	450.0
130°	374.0	382.0	393.0	395.0	393.0
132.5°	332.0	340.0	350.0	353.0	356.0
135°	300.0	307.0	315.0	318.0	319.0
137.5°	274.0	280.0	286.0	291.0	292.0
140°	252.0	258.0	264.0	268.0	268.0
142.5°	234.0	240.0	245.0	248.0	248.0
145°	218.0	223.0	228.0	231.0	232.0
147.5°	206.0	210.0	215.0	216.0	217.0
150°	195.0	198.0	202.0	204.0	205.0
152.5°	185.0	188.0	192.0	193.0	194.0
155°	176.0	179.0	182.0	184.0	184.0
157.5°	168.0	171.0	174.0	175.0	175.0
160°	162.0	164.0	167.0	167.0	168.0
162.5°	156.0	158.0	160.0	161.0	162.0
165°	151.0	153.0	154.0	155.0	156.0
167.5°	147.0	148.0	149.0	150.0	150.0
170°	143.0	144.0	145.0	145.0	146.0
172.5°	140.0	141.0	142.0	142.0	142.0
175°	138.0	138.0	139.0	139.0	140.0
177.5°	136.0	137.0	137.0	137.0	138.0
180°	136.0	136.0	136.0	136.0	136.0



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1502.4	1516.7	1489.9	1304.5	<i>1116.8</i>
110°	1389.8	1409.5	1393.3	1327.4	<i>1232.2</i>



(END OF REPORT)