

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: P827202

Luminaire Tested: **OHBL-36SE-MCL-UNV-L840-CD-UPL36**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P827202  
REPORT IS A COMBINATION OF REPORTS P826318 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-36SE-MCL-UNV-L840-CD-UPL36  
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS AND 3600 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

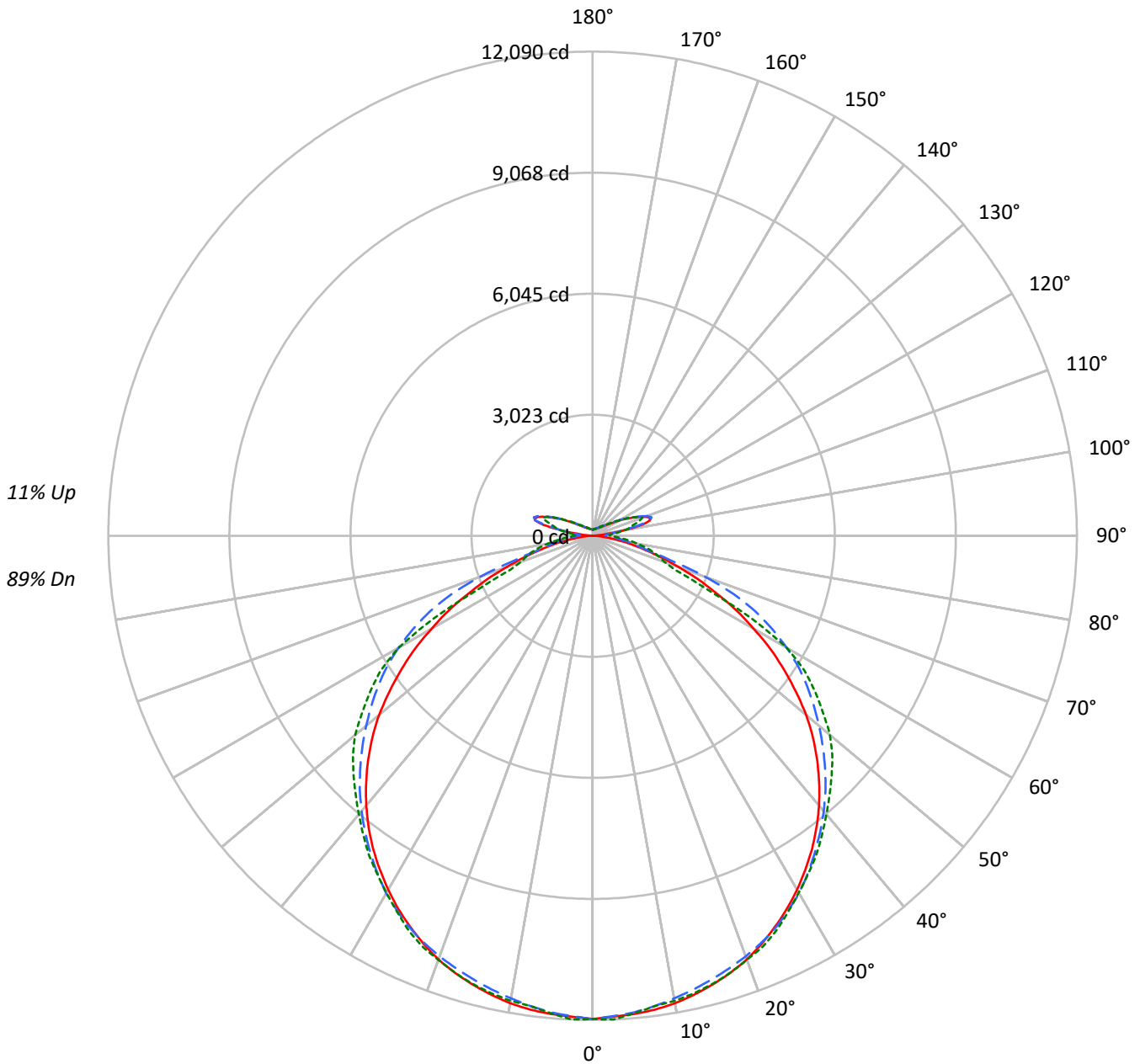
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37684.1 lumens  
Efficiency: N/A  
Efficacy: 157.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')  
CIE Type: Semi-Direct  
  
Input Watts (W): 239.8  
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: P827202

CATALOG NUMBER: OHBL-36SE-MCL-UNV-L840-CD-UPL36

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	105	105	105	99	99	99	92	92	92	89			
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	78	76			
2	97	89	83	77	94	87	81	76	81	76	72	77	73	69	72	69	66	63			
3	89	79	71	64	85	76	69	63	72	66	61	68	63	58	64	60	56	54			
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	46			
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	40			
6	69	56	47	41	66	54	46	40	52	44	39	49	43	38	46	41	37	35			
7	64	51	42	36	61	49	41	36	47	40	35	44	38	34	42	37	33	31			
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	27			
9	55	42	34	29	53	41	34	28	39	32	28	37	31	27	36	30	26	24			
10	52	39	31	26	50	38	31	26	36	30	25	35	29	24	33	28	24	22			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	19081	19081	19081
5°	18876	18804	18923
10°	18728	18519	18792
15°	18529	18306	18747
20°	18328	18172	18664
25°	18022	18037	18586
30°	17694	17824	18326
35°	17314	17486	18231
40°	16843	17137	18074
45°	16223	16733	18080
50°	15416	16273	18081
55°	14202	15820	17576
60°	12654	15158	16446
65°	10686	13930	10587
70°	8424	10874	7843
75°	6116	6455	8220
80°	4031	5367	8287
85°	2045	4918	8714



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CATALOG NUMBER: OHBL-36SE-MCL-UNV-L840-CD-UPL36

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1137.6	3.0
10°-20°	3262.2	8.7
20°-30°	4982.5	13.2
30°-40°	6045.4	16.0
40°-50°	6336.2	16.8
50°-60°	5741.6	15.2
60°-70°	3849.5	10.2
70°-80°	1728.6	4.6
80°-90°	635.0	1.7
90°-100°	463.9	1.2
100°-110°	1335.2	3.5
110°-120°	1075.9	2.9
120°-130°	512.7	1.4
130°-140°	264.0	0.7
140°-150°	155.8	0.4
150°-160°	93.2	0.2
160°-170°	49.5	0.1
170°-180°	15.2	0.0
0°-30°	9382.3	24.9
0°-40°	15427.8	40.9
0°-60°	27505.5	73.0
0°-90°	33718.6	89.5
90°-120°	2875.0	7.6
90°-150°	3807.6	10.1
90°-180°	3965.0	10.5
0°-180°	37684.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12065	12065	12065	12065	12065	
5°	11987	12029	11945	11982	11966	###
15°	11598	11552	11470	11572	11586	3275
25°	10774	10727	10802	10902	10870	4966
35°	9550	9572	9670	9773	9735	5969
45°	7926	8055	8205	8414	8440	6105
55°	5832	6113	6530	6792	6776	5206
65°	3423	3958	4494	3793	3097	3410
75°	1347	1954	1438	1471	1567	1472
85°	232	445	570	689	722	283
90°	10	197	358	442	460	19
95°	64	216	367	456	479	233
105°	1484	1514	1485	1151	1057	1412
115°	1044	1037	1075	1096	1089	1054
125°	519	539	568	565	556	489
135°	316	324	334	346	349	250
145°	234	240	245	250	253	150
155°	193	198	201	203	201	90
165°	170	172	173	174	175	49
175°	157	157	156	155	156	15
180°	153	153	153	153	153	



TEST NUMBER: P827202

CATALOG NUMBER: OHBL-36SE-MCL-UNV-L840-CD-UPL36

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12065.3	12065.3	12065.3	12065.3	12065.3
2.5°	12016.5	12067.1	12004.3	12072.3	12089.7
5°	11986.8	12028.7	11944.9	11981.6	11965.9
7.5°	11932.7	11946.7	11847.2	11876.9	11845.5
10°	11852.5	11845.5	11728.6	11786.2	11793.2
12.5°	11733.9	11712.9	11608.2	11695.5	11697.2
15°	11597.8	11552.4	11470.4	11571.6	11585.6
17.5°	11440.8	11381.5	11327.4	11458.2	11437.3
20°	11257.6	11187.8	11177.3	11320.4	11268.1
22.5°	11030.8	10976.7	11001.1	11137.2	11104.1
25°	10774.3	10727.2	10802.3	10901.7	10870.3
27.5°	10503.9	10476.0	10561.5	10638.3	10577.2
30°	10207.4	10191.7	10305.1	10367.9	10291.1
32.5°	9884.6	9889.9	9998.0	10083.5	10012.0
35°	9549.7	9572.4	9670.0	9773.0	9734.6
37.5°	9181.6	9232.2	9329.9	9446.7	9406.6
40°	8792.5	8865.8	8974.0	9115.3	9078.6
42.5°	8372.1	8464.6	8604.1	8761.1	8757.6
45°	7925.5	8054.6	8204.6	8414.0	8440.1
47.5°	7461.4	7606.2	7796.4	8075.5	8115.7
50°	6957.3	7138.7	7376.0	7710.9	7735.3
52.5°	6395.5	6643.3	6957.3	7278.3	7248.6
55°	5832.0	6112.9	6529.9	6791.5	6775.8
57.5°	5270.3	5586.1	6092.0	6278.6	6276.9
60°	4642.3	5041.8	5594.8	5736.1	5596.5
62.5°	4061.3	4490.5	5064.4	4961.5	4483.5
65°	3422.8	3958.4	4494.0	3792.7	3096.6
67.5°	2855.8	3414.1	3817.1	2597.6	2224.3
70°	2285.4	2901.2	2976.2	1927.7	1901.6
72.5°	1779.4	2435.4	2053.3	1650.3	1734.1
75°	1346.8	1953.9	1437.5	1470.7	1566.6
77.5°	982.2	1500.3	1118.3	1289.2	1367.7
80°	675.1	1062.4	912.4	1083.4	1137.4
82.5°	423.9	701.3	731.0	872.3	928.1
85°	232.0	444.9	570.5	689.1	722.2
87.5°	96.0	268.7	436.1	532.1	560.0
90°	9.7	197.3	357.8	441.8	460.3
92.5°	26.7	173.4	317.7	394.3	412.5
95°	63.7	216.5	367.4	456.0	479.0
97.5°	377.5	475.3	518.2	621.1	652.1
100°	808.2	885.1	780.3	815.0	840.2
102.5°	1265.0	1323.8	1126.6	977.1	952.3
105°	1484.0	1514.1	1485.4	1151.4	1056.6



TEST NUMBER: P827202

CATALOG NUMBER: OHBL-36SE-MCL-UNV-L840-CD-UPL36

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1222.2	1237.4	1261.3	1273.0	1244.5
115°	1044.0	1036.9	1074.6	1095.5	1089.0
117.5°	895.0	888.4	922.6	929.1	921.6
120°	755.0	756.7	789.4	784.1	777.8
122.5°	628.0	642.0	668.1	666.9	655.6
125°	519.2	539.0	568.4	564.6	556.4
127.5°	449.0	455.0	482.9	483.1	484.9
130°	388.0	397.7	417.4	426.4	424.4
132.5°	347.7	357.4	372.7	382.7	385.7
135°	315.7	324.4	334.2	345.9	348.7
137.5°	291.4	297.4	303.4	317.2	319.9
140°	269.4	275.4	279.7	290.7	292.4
142.5°	249.7	257.4	260.7	268.9	270.7
145°	233.7	240.4	245.4	250.2	252.9
147.5°	223.4	227.4	232.4	233.4	236.2
150°	212.4	215.4	219.4	221.4	222.4
152.5°	202.4	205.4	209.4	210.4	211.4
155°	193.4	198.2	201.2	203.2	201.4
157.5°	185.4	190.2	193.2	194.2	194.2
160°	179.4	183.2	186.2	186.2	187.2
162.5°	175.2	177.2	179.2	180.2	181.2
165°	170.2	172.2	173.2	174.2	175.2
167.5°	166.2	168.9	168.2	169.2	169.2
170°	162.2	163.2	164.2	162.4	163.4
172.5°	159.2	160.2	161.2	159.4	159.4
175°	157.2	157.2	156.4	154.7	155.7
177.5°	156.9	156.2	154.4	152.7	152.0
180°	153.4	153.4	153.4	153.4	153.4



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1499.7	1527.1	1543.5	1386.9	<i>1216.4</i>
110°	1386.5	1416.9	1437.5	1396.2	<i>1320.7</i>



(END OF REPORT)