

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: P827190

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827190  
REPORT IS A COMBINATION OF REPORTS P826312 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-MCL-UNV-L840-CD-UPL36  
Description: 36000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS AND 3600 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

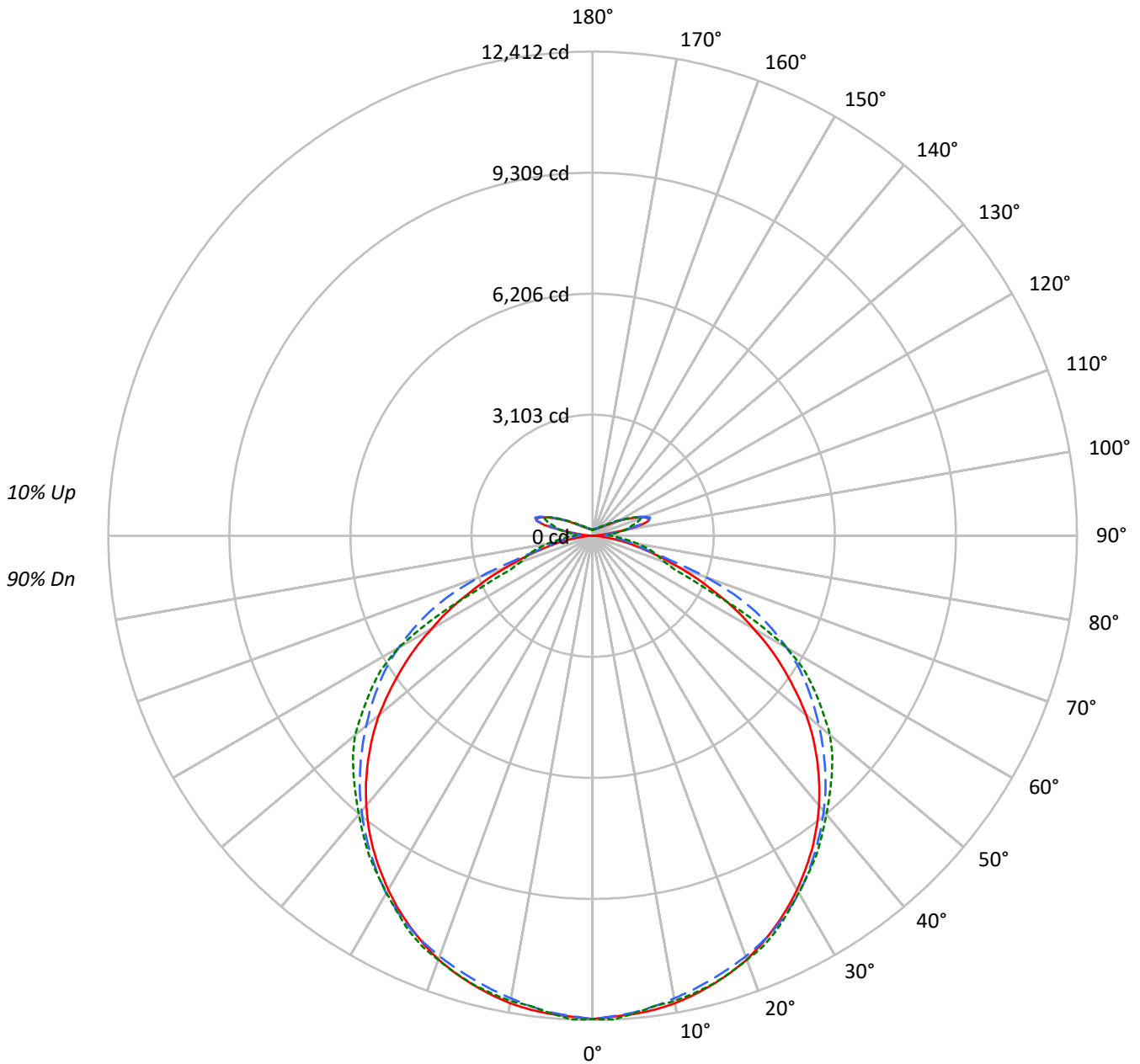
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38594.1 lumens  
Efficiency: N/A  
Efficacy: 160.3 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): 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: P827190

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

### Luminous Intensity Polar Plot





TEST NUMBER: P827190

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

**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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	90																			
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	77	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	62	49	41	36	47	40	35	45	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	33	28	38	31	27	36	30	26	24																			
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	22																			

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

	0°	45°	90°
0°	19590	19590	19590
5°	19380	19306	19428
10°	19228	19013	19294
15°	19023	18794	19247
20°	18817	18657	19162
25°	18504	18518	19082
30°	18166	18299	18815
35°	17776	17952	18718
40°	17293	17594	18556
45°	16656	17179	18562
50°	15827	16707	18564
55°	14581	16242	18045
60°	12991	15563	16885
65°	10971	14301	10869
70°	8649	11164	8052
75°	6279	6627	8439
80°	4139	5510	8508
85°	2100	5049	8947



TEST NUMBER: P827190

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1168.0	3.0
10°-20°	3349.3	8.7
20°-30°	5115.4	13.3
30°-40°	6206.8	16.1
40°-50°	6505.3	16.9
50°-60°	5894.8	15.3
60°-70°	3952.2	10.2
70°-80°	1774.7	4.6
80°-90°	651.7	1.7
90°-100°	469.0	1.2
100°-110°	1337.6	3.5
110°-120°	1077.1	2.8
120°-130°	513.4	1.3
130°-140°	264.5	0.7
140°-150°	156.2	0.4
150°-160°	93.4	0.2
160°-170°	49.6	0.1
170°-180°	15.2	0.0
0°-30°	9632.7	25.0
0°-40°	15839.5	41.0
0°-60°	28239.5	73.2
0°-90°	34618.1	89.7
90°-120°	2883.7	7.5
90°-150°	3817.7	9.9
90°-180°	3976.0	10.3
0°-180°	38594.1	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°	10	201	366	452	471	20
95°	64	219	373	462	486	233
105°	1484	1515	1488	1155	1060	1412
115°	1044	1038	1076	1097	1091	1055
125°	520	539	569	566	557	490
135°	316	325	335	347	349	250
145°	234	241	246	251	254	150
155°	194	199	202	204	202	91
165°	171	173	174	175	176	49
175°	158	158	157	155	156	15
180°	154	154	154	154	154	



TEST NUMBER: P827190

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

**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°	9.8	201.2	365.7	451.7	470.6
92.5°	26.8	176.4	324.2	402.3	420.8
95°	63.8	218.9	372.8	462.5	485.7
97.5°	377.6	477.2	522.7	626.6	657.7
100°	808.4	886.7	784.1	819.5	844.9
102.5°	1265.2	1325.2	1129.8	980.9	956.2
105°	1484.2	1515.2	1488.1	1154.6	1060.0



TEST NUMBER: P827190

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

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1222.5	1238.1	1262.9	1275.0	1246.6
115°	1044.3	1037.5	1075.9	1097.3	1090.9
117.5°	895.3	888.9	923.8	930.5	923.1
120°	755.3	757.1	790.4	785.4	779.2
122.5°	628.3	642.3	669.0	668.0	656.8
125°	519.5	539.3	569.2	565.6	557.4
127.5°	449.3	455.3	483.7	484.0	485.8
130°	388.3	398.1	418.1	427.2	425.2
132.5°	348.1	357.9	373.3	383.4	386.4
135°	316.1	324.9	334.7	346.7	349.4
137.5°	291.9	297.9	303.9	317.9	320.7
140°	269.9	275.9	280.1	291.3	293.1
142.5°	250.1	257.9	261.1	269.5	271.3
145°	234.1	240.9	245.9	250.7	253.5
147.5°	223.9	227.9	232.9	233.9	236.7
150°	212.9	215.9	219.9	221.9	222.9
152.5°	202.9	205.9	209.9	210.9	211.9
155°	193.9	198.7	201.7	203.7	201.9
157.5°	185.9	190.7	193.7	194.7	194.7
160°	179.9	183.7	186.7	186.7	187.7
162.5°	175.7	177.7	179.7	180.7	181.7
165°	170.7	172.7	173.7	174.7	175.7
167.5°	166.7	169.5	168.7	169.7	169.7
170°	162.7	163.7	164.7	162.9	163.9
172.5°	159.7	160.7	161.7	159.9	159.9
175°	157.7	157.7	156.9	155.1	156.1
177.5°	157.5	156.7	154.9	153.1	152.3
180°	153.9	153.9	153.9	153.9	153.9



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	1500.0	1528.0	1545.8	1389.7	1219.3
110°	1386.7	1417.7	1439.4	1398.6	1323.1



(END OF REPORT)