

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: P827208

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827208
REPORT IS A COMBINATION OF REPORTS P826321 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-NL-UNV-L840-CD-UPL36
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS AND 3600 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

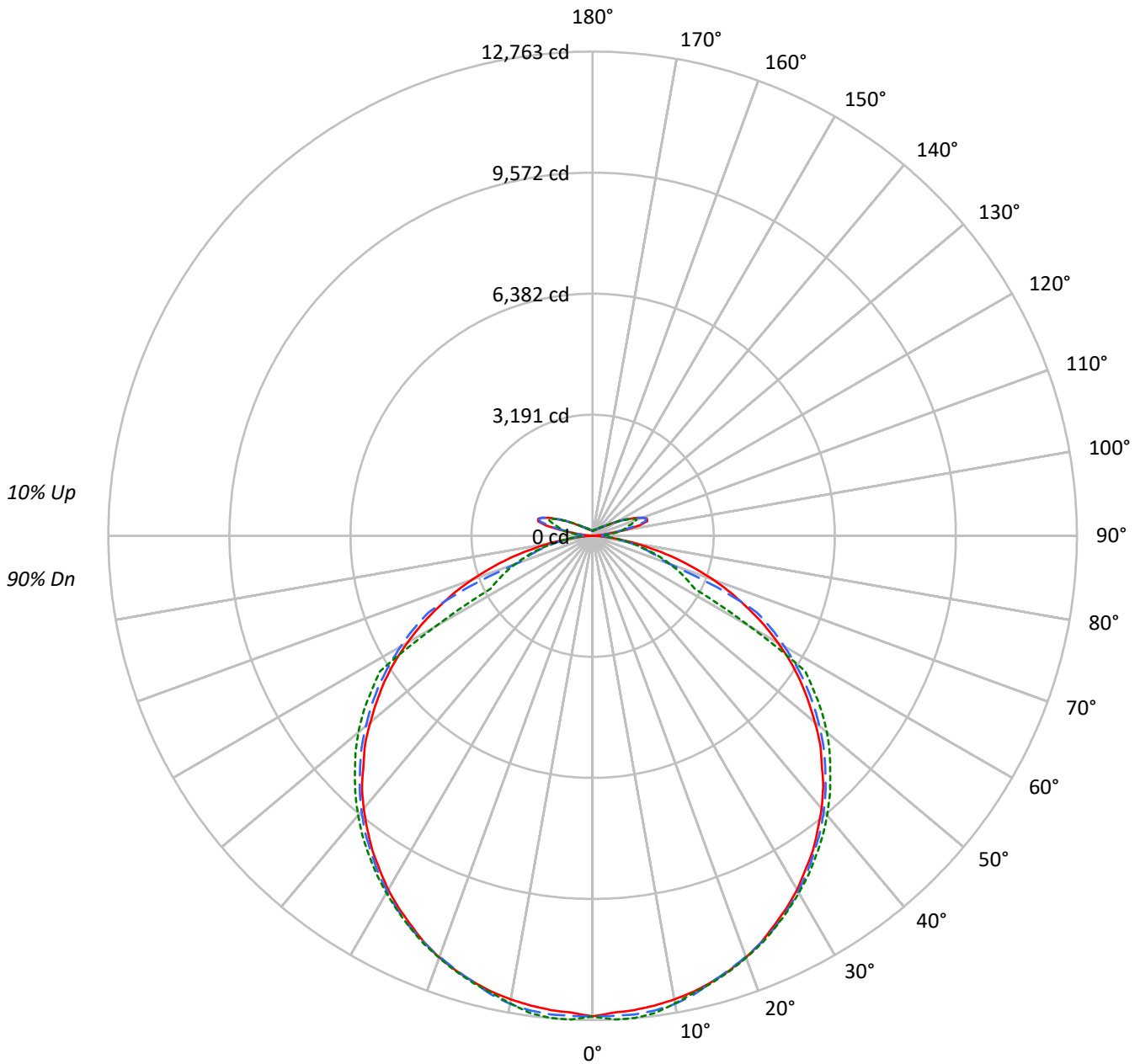
Lumens per Lamp: N/A
Luminaire Lumens: 39153.1 lumens
Efficiency: N/A
Efficacy: 163.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 239.8
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									
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	106	106	106	99	99	99	93	93	93	90																			
1	107	103	98	95	103	99	96	92	93	90	88	88	86	83	83	81	79	77																			
2	98	90	83	78	94	87	81	76	82	77	73	77	73	70	73	70	67	64																			
3	89	79	71	65	86	77	69	64	72	66	61	68	63	59	65	60	57	54																			
4	82	70	61	55	79	68	60	54	64	58	52	61	55	51	58	53	49	46																			
5	75	62	54	47	72	61	53	47	58	51	45	55	49	44	52	47	43	40																			
6	69	56	47	41	67	55	47	41	52	45	40	49	43	38	47	42	37	35																			
7	64	51	42	36	62	50	42	36	47	40	35	45	39	34	43	37	33	31																			
8	60	46	38	32	57	45	37	32	43	36	31	41	35	30	39	34	30	28																			
9	56	42	34	29	54	41	34	29	40	33	28	38	32	27	36	31	27	25																			
10	52	39	31	26	50	38	31	26	37	30	25	35	29	25	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20036	20036	20036
5°	19829	20004	20211
10°	19738	19917	20002
15°	19635	19620	19827
20°	19506	19460	19729
25°	19266	19342	19639
30°	19062	19134	19553
35°	18814	18886	19477
40°	18514	18653	19419
45°	18092	18323	19298
50°	17642	17952	19221
55°	17093	17480	18895
60°	16267	16779	14597
65°	15075	15878	9723
70°	13538	8175	9296
75°	11273	7404	8667
80°	7959	6217	7589
85°	3231	5021	6565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1203.6	3.1
10°-20°	3446.4	8.8
20°-30°	5243.9	13.4
30°-40°	6375.9	16.3
40°-50°	6704.0	17.1
50°-60°	6121.5	15.6
60°-70°	3924.2	10.0
70°-80°	1853.7	4.7
80°-90°	521.7	1.3
90°-100°	411.2	1.1
100°-110°	1283.4	3.3
110°-120°	1041.6	2.7
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°	9894.0	25.3
0°-40°	16269.9	41.6
0°-60°	29095.3	74.3
0°-90°	35395.0	90.4
90°-120°	2736.2	7.0
90°-150°	3615.9	9.2
90°-180°	3758.0	9.6
0°-180°	39153.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12670	12670	12670	12670	12670	
5°	12552	12600	12665	12734	12761	###
15°	12171	12262	12169	12187	12196	3436
25°	11327	11344	11384	11402	11393	5226
35°	10124	10064	10180	10304	10275	6327
45°	8539	8523	8668	8872	8857	6600
55°	6691	6640	6865	7094	7112	5968
65°	4508	4508	4771	2737	2746	4470
75°	2228	2270	1474	1552	1558	2348
85°	291	369	460	498	471	430
90°	8	174	268	314	311	18
95°	69	188	312	408	424	234
105°	1488	1498	1422	1066	964	1415
115°	1041	1032	1046	1046	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12669.5	12669.5	12669.5	12669.5	12669.5
2.5°	12580.5	12622.9	12669.5	12729.5	12762.7
5°	12551.6	12600.5	12665.0	12734.0	12760.6
7.5°	12489.4	12558.1	12620.5	12669.5	12685.0
10°	12411.5	12493.9	12529.4	12525.0	12513.9
12.5°	12307.0	12393.9	12382.8	12331.5	12340.4
15°	12171.4	12262.5	12169.3	12187.0	12195.9
17.5°	12011.4	12100.4	11991.4	12026.9	12029.3
20°	11824.7	11891.4	11806.9	11835.8	11835.8
22.5°	11600.2	11646.8	11611.3	11631.3	11635.8
25°	11326.7	11344.4	11384.4	11402.3	11393.3
27.5°	11064.5	11042.2	11120.1	11162.2	11139.8
30°	10773.1	10737.6	10828.7	10897.6	10871.0
32.5°	10439.6	10417.5	10522.0	10604.1	10588.6
35°	10124.0	10064.0	10179.5	10304.1	10275.1
37.5°	9750.5	9714.9	9846.0	9977.4	9961.8
40°	9385.9	9325.9	9474.9	9630.4	9614.9
42.5°	8994.7	8923.4	9085.8	9272.7	9254.8
45°	8538.8	8523.3	8667.8	8872.3	8856.8
47.5°	8134.5	8056.6	8258.7	8456.7	8474.6
50°	7645.1	7616.4	7800.9	8041.0	8058.7
52.5°	7167.3	7147.3	7340.6	7583.0	7614.1
55°	6691.4	6640.4	6864.9	7093.9	7111.8
57.5°	6182.6	6129.1	6358.2	6607.2	6644.8
60°	5637.7	5586.6	5837.8	6069.1	4826.4
62.5°	5093.1	5057.5	5320.0	3768.2	3036.9
65°	4508.4	4508.4	4770.6	2736.6	2745.5
67.5°	3961.7	3926.1	3557.1	2458.6	2458.6
70°	3374.7	3388.1	2049.6	2154.3	2156.4
72.5°	2785.5	2834.5	1769.7	1854.0	1858.4
75°	2227.5	2269.9	1473.9	1551.8	1558.4
77.5°	1636.3	1258.3	1184.8	1245.1	1247.2
80°	1149.3	793.7	907.1	964.8	958.2
82.5°	671.3	555.7	664.7	707.0	704.7
85°	291.1	369.1	460.1	498.0	471.2
87.5°	93.2	229.0	286.7	309.0	306.7
90°	8.0	173.5	267.5	314.2	311.0
92.5°	25.0	157.7	254.9	318.4	326.5
95°	68.6	188.5	311.9	407.9	423.9
97.5°	378.5	448.6	453.5	572.6	601.0
100°	807.5	861.7	708.0	755.1	777.4
102.5°	1269.1	1306.1	1050.1	905.1	877.4
105°	1488.1	1498.5	1421.5	1066.5	964.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1223.4	1230.9	1226.5	1215.9	1168.1
115°	1041.1	1031.5	1046.1	1046.5	1023.1
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°	1502.1	1516.1	1489.1	1304.0	<i>1116.6</i>
110°	1389.4	1409.0	1392.6	1326.9	<i>1232.1</i>



(END OF REPORT)