

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: P827200

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827200
REPORT IS A COMBINATION OF REPORTS P826317 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-A-UNV-L840-CD-UPL36
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS AND 3600 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

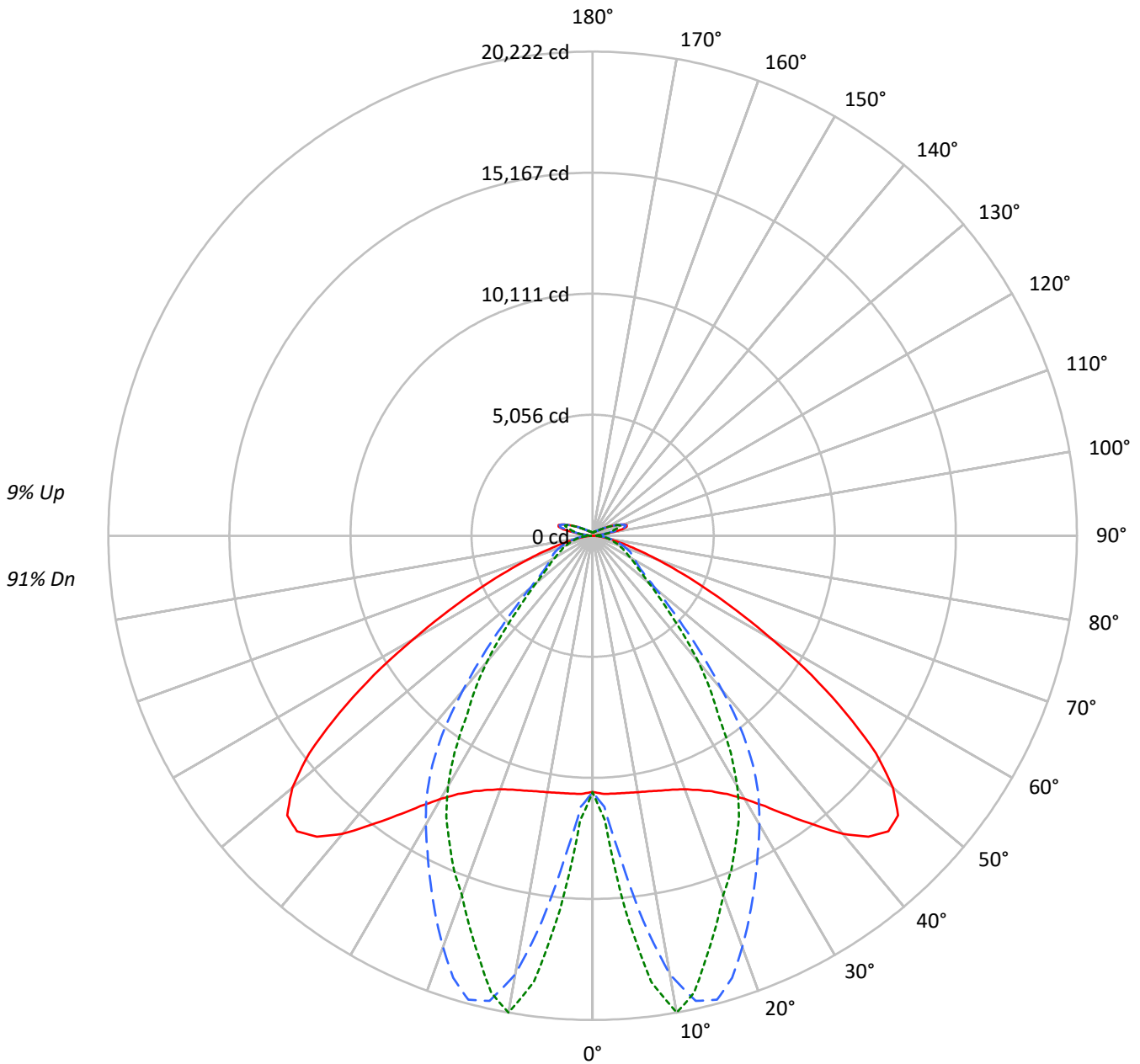
Lumens per Lamp: N/A
Luminaire Lumens: 37921.1 lumens
Efficiency: N/A
Efficacy: 158.1 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P827200

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

Luminous Intensity Polar Plot





TEST NUMBER: P827200

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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	91																			
1	108	104	101	98	105	101	98	95	95	93	90	90	88	86	85	83	82	79																			
2	100	93	87	83	97	91	85	81	86	81	78	81	78	75	77	74	72	69																			
3	93	84	77	71	89	81	75	70	77	72	67	73	69	65	70	66	63	61																			
4	86	75	68	62	83	73	66	61	70	64	59	67	62	57	63	59	56	54																			
5	80	68	60	55	77	67	59	54	64	57	52	61	55	51	58	53	50	48																			
6	74	62	54	49	72	61	53	48	58	52	47	56	50	46	53	48	45	43																			
7	69	57	49	44	67	56	48	43	53	47	42	51	46	41	49	44	40	38																			
8	64	52	45	39	63	51	44	39	49	43	38	47	42	37	46	40	37	35																			
9	60	48	41	36	59	47	40	35	46	39	35	44	38	34	42	37	34	32																			
10	57	45	37	33	55	44	37	32	42	36	32	41	35	31	39	34	31	29																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16923	16923	16923
5°	17020	21295	24808
10°	17183	29372	32223
15°	17604	32011	29575
20°	18344	29716	26431
25°	19696	26738	24176
30°	21979	24088	21498
35°	25859	21095	17131
40°	31121	16075	13634
45°	35734	10960	9704
50°	36269	7524	7177
55°	31438	5927	5863
60°	23523	5552	5275
65°	16159	5578	4997
70°	10362	5392	4839
75°	6257	5005	4630
80°	3707	4419	4777
85°	1808	3829	4429



TEST NUMBER: P827200

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1397.0	3.7
10°-20°	4930.7	13.0
20°-30°	7265.8	19.2
30°-40°	7635.2	20.1
40°-50°	5842.3	15.4
50°-60°	3527.8	9.3
60°-70°	2152.8	5.7
70°-80°	1175.0	3.1
80°-90°	420.1	1.1
90°-100°	275.1	0.7
100°-110°	1246.1	3.3
110°-120°	1031.3	2.7
120°-130°	488.1	1.3
130°-140°	247.1	0.7
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°	13593.5	35.8
0°-40°	21228.7	56.0
0°-60°	30598.8	80.7
0°-90°	34346.7	90.6
90°-120°	2552.5	6.7
90°-150°	3432.2	9.1
90°-180°	3574.0	9.4
0°-180°	37921.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10701	10701	10701	10701	10701	
5°	10808	11596	13527	15104	15687	###
15°	11019	17162	20058	18717	18277	3133
25°	11775	19918	16013	14498	14140	5503
35°	14263	15951	11666	9715	9147	9048
45°	17457	9102	5374	4729	4530	13190
55°	12910	3086	2446	2267	2260	11408
65°	5176	1954	1800	1540	1462	5303
75°	1378	1215	1115	920	882	1586
85°	205	377	444	405	367	253
90°	8	49	63	72	73	17
95°	62	124	165	210	226	231
105°	1477	1474	1386	1031	931	1404
115°	1030	1016	1024	1031	1021	1041
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: P827200

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10701.0	10701.0	10701.0	10701.0	<i>10701.0</i>
2.5°	10788.6	10898.7	11332.8	11783.5	<i>11893.1</i>
5°	10808.3	11595.8	13527.2	15104.3	<i>15687.1</i>
7.5°	10831.3	12725.1	16246.0	18177.0	<i>18795.1</i>
10°	<i>10874.9</i>	<i>14153.1</i>	<i>18601.9</i>	<i>19988.1</i>	<i>20221.7</i>
12.5°	10929.0	15666.0	19898.2	19847.7	<i>19553.1</i>
15°	11019.0	17162.4	20057.9	18717.1	<i>18277.0</i>
17.5°	11113.5	18428.4	19361.3	17486.4	<i>17103.2</i>
20°	11267.2	19368.2	18277.9	16392.4	<i>15956.9</i>
22.5°	11488.9	19884.9	17141.7	15403.1	<i>15119.0</i>
25°	11774.7	19918.4	16013.4	14497.7	<i>14139.8</i>
27.5°	12157.9	19456.3	14931.8	13610.7	<i>13232.6</i>
30°	12679.2	18571.6	13926.9	12541.1	<i>12072.1</i>
32.5°	13387.2	17298.2	12890.7	11249.8	<i>10723.9</i>
35°	14262.8	15951.0	11666.0	9715.3	<i>9147.2</i>
37.5°	15218.1	14455.0	10179.7	8356.6	<i>8025.7</i>
40°	16246.0	12913.7	8418.1	7085.0	<i>6848.3</i>
42.5°	17048.1	11237.8	6781.7	5887.8	<i>5635.9</i>
45°	17457.0	9101.8	5373.9	4728.7	<i>4530.0</i>
47.5°	17297.8	7065.3	4260.2	3757.3	<i>3697.6</i>
50°	16368.5	5217.0	3410.4	3095.1	<i>3070.3</i>
52.5°	14915.7	3888.5	2817.0	2622.0	<i>2579.3</i>
55°	12910.0	3086.4	2446.3	2267.3	<i>2260.4</i>
57.5°	10839.1	2622.0	2220.5	2081.9	<i>2033.7</i>
60°	8630.1	2338.0	2049.3	1892.9	<i>1795.1</i>
62.5°	6764.7	2139.3	1923.6	1711.1	<i>1619.8</i>
65°	5175.7	1953.9	1799.7	1540.0	<i>1461.5</i>
67.5°	3858.2	1777.2	1648.3	1360.1	<i>1314.2</i>
70°	2811.1	1596.0	1475.7	1209.6	<i>1173.3</i>
72.5°	2003.4	1415.2	1303.2	1068.3	<i>1028.3</i>
75°	1378.0	1215.1	1114.6	919.6	<i>882.4</i>
77.5°	929.7	1010.9	928.8	785.1	<i>769.5</i>
80°	620.9	801.7	751.2	665.4	<i>655.7</i>
82.5°	376.7	581.9	592.9	541.0	<i>514.9</i>
85°	205.1	376.7	444.2	404.7	<i>367.1</i>
87.5°	80.3	208.8	306.1	274.9	<i>258.8</i>
90°	8.0	49.0	63.0	72.0	<i>73.0</i>
92.5°	25.0	60.0	77.0	96.0	<i>102.0</i>
95°	62.0	124.0	165.0	210.0	<i>226.0</i>
97.5°	374.0	402.0	349.0	417.0	<i>441.0</i>
100°	803.0	824.0	639.0	644.0	<i>664.0</i>
102.5°	1258.0	1275.0	1008.0	834.0	<i>804.0</i>
105°	1477.0	1474.0	1386.0	1031.0	<i>931.0</i>



TEST NUMBER: P827200

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1210.0	1213.0	1202.0	1198.0	1166.0
115°	1030.0	1016.0	1024.0	1031.0	1021.0
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°	1491.0	1494.0	1458.0	1284.0	<i>1110.0</i>
110°	1376.0	1389.0	1366.0	1309.0	<i>1230.0</i>



(END OF REPORT)