

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: P827204

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827204
REPORT IS A COMBINATION OF REPORTS P826319 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-MFL-UNV-L840-CD-UPL36
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENSAND 3600 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

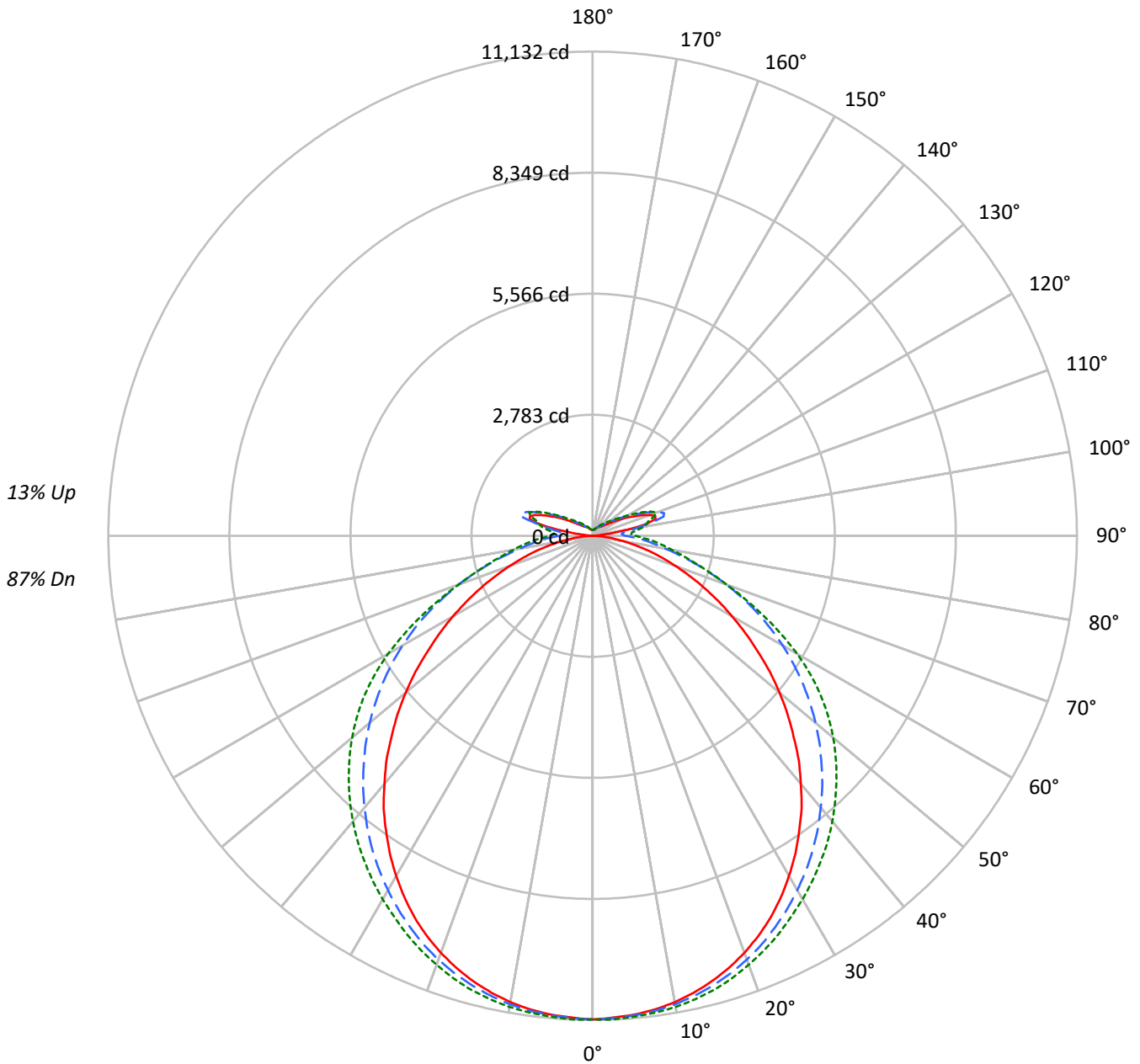
Lumens per Lamp: N/A
Luminaire Lumens: 36864.1 lumens
Efficiency: N/A
Efficacy: 153.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 239.8
Input Voltage (V): NR
Input Current (Ain): 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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87																			
1	105	100	96	92	101	97	93	89	90	87	84	84	82	79	79	77	75	72																			
2	96	87	80	75	92	84	78	73	79	74	69	74	69	66	69	66	62	60																			
3	87	77	68	62	84	74	67	61	69	63	58	65	60	55	61	57	53	50																			
4	80	68	59	52	76	66	58	51	62	55	49	58	52	47	54	49	45	43																			
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	39	37																			
6	68	54	46	39	65	53	45	39	50	43	37	47	41	36	44	39	35	32																			
7	63	49	41	35	60	48	40	34	45	38	33	43	36	32	40	35	31	29																			
8	58	45	36	31	56	44	36	30	41	34	29	39	33	28	37	32	27	25																			
9	54	41	33	28	52	40	32	27	38	31	26	36	30	26	34	29	25	23																			
10	51	38	30	25	49	37	30	25	35	28	24	33	27	23	32	26	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17587	17587	17587
5°	17401	17420	17548
10°	17206	17267	17530
15°	16940	17083	17484
20°	16612	16858	17383
25°	16198	16578	17283
30°	15654	16273	17186
35°	15011	15950	17121
40°	14254	15576	17068
45°	13376	15170	16983
50°	12423	14759	16872
55°	11273	14256	16611
60°	10096	13664	15955
65°	8820	12907	14776
70°	7444	11943	13515
75°	6043	10828	12853
80°	4339	10022	13464
85°	2447	10417	16878



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1053.7	2.9
10°-20°	3023.0	8.2
20°-30°	4571.8	12.4
30°-40°	5488.5	14.9
40°-50°	5668.7	15.4
50°-60°	5100.1	13.8
60°-70°	3841.8	10.4
70°-80°	2319.8	6.3
80°-90°	1142.3	3.1
90°-100°	752.7	2.0
100°-110°	1518.7	4.1
110°-120°	1191.3	3.2
120°-130°	578.6	1.6
130°-140°	294.8	0.8
140°-150°	167.6	0.5
150°-160°	93.3	0.3
160°-170°	44.1	0.1
170°-180°	13.4	0.0
0°-30°	8648.5	23.5
0°-40°	14137.0	38.3
0°-60°	24905.7	67.6
0°-90°	32209.6	87.4
90°-120°	3462.7	9.4
90°-150°	4503.7	12.2
90°-180°	4655.0	12.6
0°-180°	36864.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11121	11121	11121	11121	11121	
5°	11050	11080	11066	11110	11096	###
15°	10604	10655	10704	10794	10805	2989
25°	9684	9790	9928	10084	10108	4454
35°	8279	8472	8821	9088	9142	5176
45°	6535	6864	7438	7844	7928	5045
55°	4630	5108	5884	6328	6404	4151
65°	2825	3402	4164	4371	4322	2807
75°	1331	1911	2411	2474	2450	1420
85°	278	732	1208	1374	1399	321
90°	8	335	754	943	979	23
95°	76	317	682	869	909	242
105°	1496	1586	1685	1423	1339	1423
115°	1052	1079	1209	1279	1280	1063
125°	529	555	649	689	687	497
135°	319	332	372	416	428	252
145°	245	248	255	280	289	155
155°	203	209	209	208	211	91
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°	11120.6	11120.6	11120.6	<i>11120.6</i>	11120.6
2.5°	<i>11087.9</i>	<i>11115.1</i>	<i>11098.8</i>	<i>11134.2</i>	<i>11131.5</i>
5°	11049.8	11079.8	11066.1	<i>11109.7</i>	11096.1
7.5°	10984.5	11017.2	11014.4	<i>11063.4</i>	11058.0
10°	10889.2	10924.6	10935.5	<i>11000.8</i>	11000.8
12.5°	10758.6	10804.9	10832.1	<i>10911.0</i>	10913.7
15°	10603.5	10655.2	10704.2	<i>10794.0</i>	10804.9
17.5°	10415.7	10481.0	10549.0	<i>10652.5</i>	10666.1
20°	10203.4	10276.9	10369.4	<i>10478.3</i>	10494.6
22.5°	9958.4	10045.5	10165.3	<i>10293.2</i>	10312.3
25°	9683.6	9789.7	9928.5	<i>10083.6</i>	10108.1
27.5°	9370.6	9493.0	9680.8	<i>9855.0</i>	9876.8
30°	9030.4	9174.6	9408.7	<i>9615.5</i>	9650.9
32.5°	8671.1	8837.1	9125.6	<i>9357.0</i>	9405.9
35°	8279.2	8472.4	8820.8	<i>9087.5</i>	9142.0
37.5°	7892.7	8105.0	8499.6	<i>8804.5</i>	8869.8
40°	7440.9	7704.9	8156.7	<i>8494.2</i>	8573.1
42.5°	7016.4	7302.1	7813.8	<i>8181.2</i>	8257.4
45°	6534.6	6863.9	7438.2	<i>7843.7</i>	7928.1
47.5°	6082.8	6439.4	7076.2	<i>7495.4</i>	7582.5
50°	5606.6	5998.5	6689.8	<i>7127.9</i>	7217.8
52.5°	5130.3	5552.1	6289.7	<i>6744.2</i>	6828.6
55°	4629.5	5108.5	5884.2	<i>6327.8</i>	6404.0
57.5°	4164.1	4670.3	5467.8	<i>5889.6</i>	5935.9
60°	3704.1	4229.4	5043.2	<i>5413.3</i>	5429.6
62.5°	3255.1	3807.6	4607.7	<i>4901.7</i>	4879.9
65°	2825.1	3402.0	4164.1	<i>4370.9</i>	4321.9
67.5°	2411.4	3007.4	3709.6	<i>3842.9</i>	3777.6
70°	2019.4	2623.7	3268.7	<i>3336.7</i>	3276.8
72.5°	1673.8	2259.0	2822.3	<i>2879.5</i>	2835.9
75°	1330.9	1910.6	2411.4	<i>2474.0</i>	2449.5
77.5°	1009.7	1573.1	2033.1	<i>2114.7</i>	2120.1
80°	726.7	1265.6	1703.7	<i>1831.7</i>	1848.0
82.5°	479.0	982.5	1428.9	<i>1592.2</i>	1616.6
85°	277.6	732.1	1208.4	<i>1374.4</i>	1398.9
87.5°	119.8	528.0	971.6	<i>1121.3</i>	1151.2
90°	8.0	334.8	754.3	<i>942.9</i>	979.3
92.5°	33.2	296.8	670.3	<i>852.6</i>	888.6
95°	75.6	317.2	682.1	<i>868.6</i>	909.1
97.5°	390.3	565.3	798.1	<i>991.3</i>	1039.8
100°	819.3	965.5	1028.2	<i>1147.5</i>	1189.3
102.5°	1274.3	1400.2	1348.2	<i>1274.9</i>	1264.0
105°	1496.1	1585.6	1685.4	<i>1422.9</i>	1339.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1231.8	1286.5	1408.8	1475.6	1454.5
115°	1051.8	1078.6	1209.1	1278.7	1279.6
117.5°	905.5	925.4	1042.3	1098.2	1095.3
120°	765.5	787.3	895.2	935.7	938.6
122.5°	638.5	666.1	762.9	804.6	799.8
125°	528.8	554.9	648.6	688.6	686.7
127.5°	454.1	465.5	550.3	594.2	602.4
130°	393.1	403.8	474.6	522.9	529.1
132.5°	351.1	364.5	418.0	464.6	478.5
135°	319.1	331.5	372.2	416.0	427.9
137.5°	293.1	304.5	332.3	375.4	387.3
140°	273.8	282.5	302.1	338.8	349.6
142.5°	258.5	264.5	274.9	307.9	316.0
145°	245.2	247.5	255.2	280.0	289.2
147.5°	233.2	237.2	242.2	254.1	263.3
150°	222.2	227.9	229.2	233.9	243.1
152.5°	212.2	217.9	219.2	217.5	223.9
155°	203.2	208.9	209.2	208.5	211.2
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°	1510.1	1592.0	1722.0	1632.4	1472.0
110°	1395.1	1476.1	1600.1	1619.3	1553.9



(END OF REPORT)