

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: P827206

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827206
REPORT IS A COMBINATION OF REPORTS P826320 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-N-UNV-L840-CD-UPL36
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS AND 3600 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

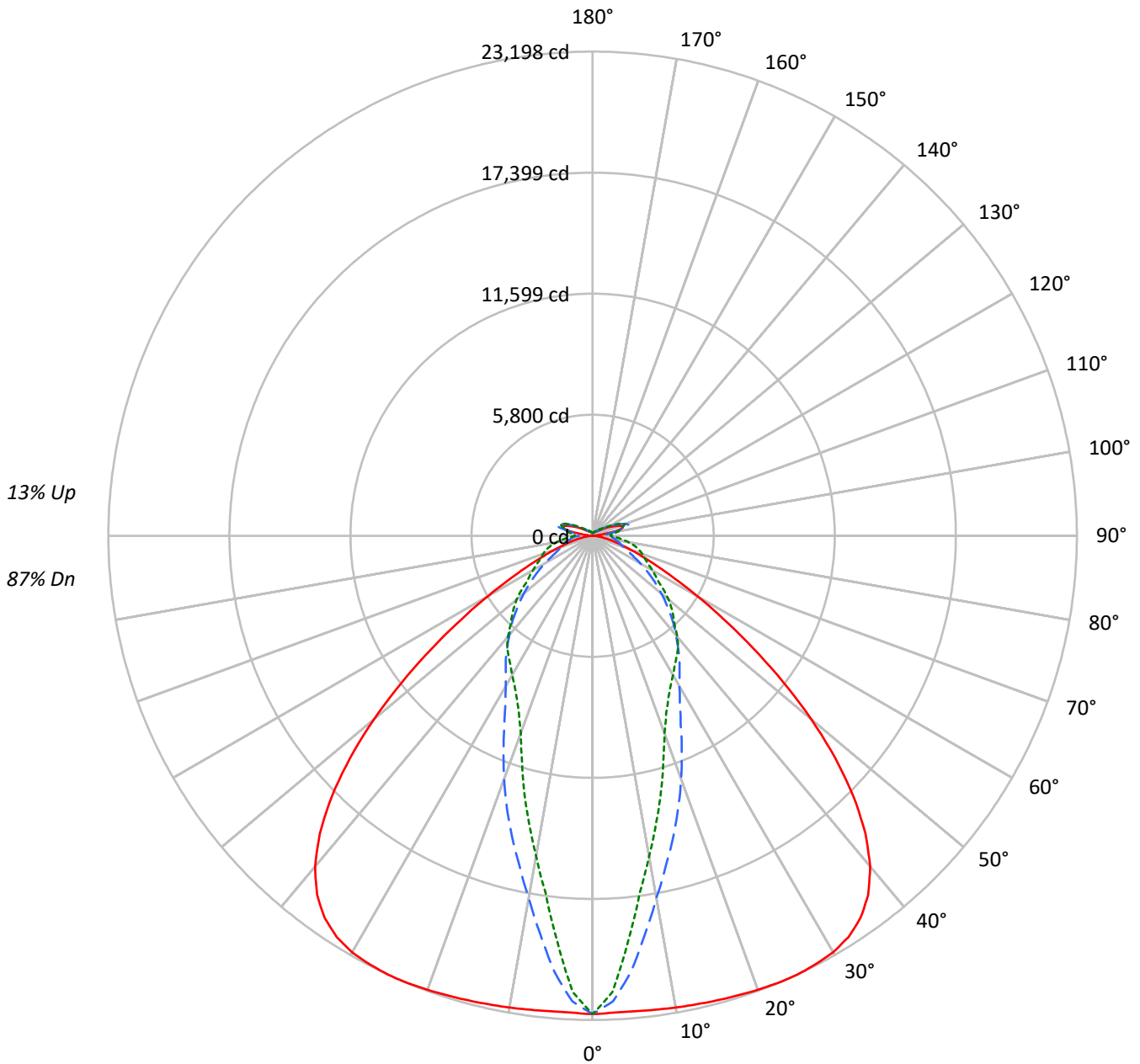
Lumens per Lamp: N/A
Luminaire Lumens: 37405.1 lumens
Efficiency: N/A
Efficacy: 156.0 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 239.8
Input Voltage (V): NR
Input Current (A_{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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87				87															
1	107	102	98	95	103	99	95	92	92	89	87	86	84	82	81	79	77	75				75															
2	98	91	84	79	94	88	82	77	82	78	74	77	73	70	72	69	67	64				64															
3	90	81	73	68	87	78	72	66	74	68	64	69	65	61	65	62	58	56				56															
4	83	73	65	59	80	71	63	58	67	60	56	63	58	53	59	55	51	49				49															
5	77	66	58	52	74	64	56	51	60	54	49	57	52	47	54	50	46	44				44															
6	72	60	52	46	69	58	51	45	55	49	44	52	47	43	50	45	41	39				39															
7	67	55	47	41	65	53	46	41	51	44	39	48	43	38	46	41	37	35				35															
8	63	50	43	37	61	49	42	37	47	40	36	45	39	35	43	38	34	32				32															
9	59	47	39	34	57	46	38	34	44	37	33	42	36	32	40	35	31	29				29															
10	55	43	36	31	54	42	35	31	41	34	30	39	33	29	37	32	29	27				27															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	36243	36243	36243
5°	36016	33020	30836
10°	36269	27826	24847
15°	36818	23809	20495
20°	37684	20141	16662
25°	38804	16680	14678
30°	39944	14377	13715
35°	40553	13110	13149
40°	39617	11849	12562
45°	36195	10716	11722
50°	30292	9475	11104
55°	22796	8307	9991
60°	15784	7133	9697
65°	10453	6152	9664
70°	6986	5786	10390
75°	4694	5984	11513
80°	3061	6659	12601
85°	1595	8405	15026



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1929.1	5.2
10°-20°	4538.1	12.1
20°-30°	5688.5	15.2
30°-40°	6036.2	16.1
40°-50°	5457.6	14.6
50°-60°	3957.2	10.6
60°-70°	2483.3	6.6
70°-80°	1643.4	4.4
80°-90°	954.4	2.6
90°-100°	733.8	2.0
100°-110°	1562.7	4.2
110°-120°	1226.7	3.3
120°-130°	582.7	1.6
130°-140°	290.6	0.8
140°-150°	168.2	0.4
150°-160°	95.1	0.3
160°-170°	44.1	0.1
170°-180°	13.4	0.0
0°-30°	12155.8	32.5
0°-40°	18191.9	48.6
0°-60°	27606.7	73.8
0°-90°	32687.8	87.4
90°-120°	3523.1	9.4
90°-150°	4564.7	12.2
90°-180°	4717.0	12.6
0°-180°	37405.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22917	22917	22917	22917	22917	
5°	22871	22284	20976	20003	19499	###
15°	23046	18784	14919	13268	12666	6536
25°	23198	14524	9990	8866	8585	10717
35°	22367	9656	7250	7023	7021	13905
45°	17682	6116	5254	5381	5472	13470
55°	9361	3791	3429	3719	3852	8458
65°	3348	2199	1985	2543	2827	3484
75°	1034	1184	1333	2070	2194	1152
85°	181	491	975	1357	1245	217
90°	8	254	628	868	876	17
95°	71	268	662	886	933	238
105°	1494	1570	1748	1511	1424	1421
115°	1054	1084	1268	1336	1333	1065
125°	533	560	661	685	673	500
135°	322	333	370	403	404	254
145°	244	251	261	281	280	155
155°	202	212	217	221	217	90
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°	22916.9	22916.9	22916.9	22916.9	22916.9
2.5°	22868.9	22738.0	22330.2	22081.5	21872.1
5°	22871.1	22284.4	20975.7	20002.9	19499.1
7.5°	22903.8	21599.5	19241.7	17821.8	17267.8
10°	22954.0	20751.0	17623.3	16109.7	15592.7
12.5°	22991.0	19795.7	16199.1	14643.9	14076.9
15°	23045.6	18783.7	14918.8	13267.7	12665.7
17.5°	23095.7	17830.5	13653.7	11928.5	11258.9
20°	23145.9	16803.2	12388.7	10611.1	10059.3
22.5°	23193.9	15719.2	11154.2	9588.1	9210.8
25°	23198.2	14524.0	9989.5	8866.2	8584.8
27.5°	23141.5	13285.1	9045.0	8262.0	8087.5
30°	23043.4	12083.3	8312.2	7825.8	7701.5
32.5°	22799.1	10857.5	7745.1	7404.9	7332.9
35°	22367.2	9655.8	7250.0	7023.2	7021.0
37.5°	21686.7	8589.2	6713.4	6674.2	6722.2
40°	20681.3	7655.7	6205.2	6309.9	6309.9
42.5°	19339.9	6844.3	5745.0	5851.9	5823.6
45°	17682.2	6115.8	5254.3	5380.8	5472.4
47.5°	15760.7	5474.6	4752.6	4996.9	5123.4
50°	13671.2	4863.9	4294.6	4606.5	4750.5
52.5°	11481.3	4299.0	3847.5	4205.2	4320.8
55°	9361.3	3790.8	3428.7	3718.8	3851.8
57.5°	7441.9	3306.6	3018.7	3293.5	3568.3
60°	5790.8	2890.0	2632.6	3025.2	3300.0
62.5°	4423.3	2519.2	2270.5	2774.4	3049.2
65°	3348.0	2198.6	1984.8	2543.2	2826.7
67.5°	2523.5	1921.6	1762.3	2375.2	2652.2
70°	1895.4	1653.3	1583.5	2270.5	2519.2
72.5°	1400.3	1406.8	1441.7	2178.9	2368.7
75°	1033.8	1184.3	1332.7	2069.9	2194.2
77.5°	739.4	981.5	1234.5	1939.0	1982.6
80°	512.6	800.5	1132.0	1766.7	1729.6
82.5°	320.6	641.2	1040.4	1576.9	1474.4
85°	181.0	490.7	975.0	1356.6	1245.4
87.5°	80.7	366.4	852.8	1057.8	988.0
90°	8.0	254.0	627.9	868.1	875.6
92.5°	29.4	230.1	598.3	824.5	852.3
95°	70.7	268.0	662.3	886.1	932.7
97.5°	384.9	528.5	815.8	1045.2	1095.3
100°	816.1	937.4	1068.7	1222.0	1263.8
102.5°	1273.3	1379.7	1402.8	1359.6	1347.1
105°	1494.4	1570.0	1748.1	1510.8	1423.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1231.8	1287.2	1474.6	1542.6	1521.5
115°	1054.0	1083.6	1268.3	1336.4	1332.9
117.5°	907.2	929.9	1092.7	1143.3	1134.5
120°	767.2	793.3	934.2	966.0	958.0
122.5°	640.2	671.6	787.7	814.8	799.6
125°	533.2	559.9	661.3	685.0	672.9
127.5°	459.0	469.4	555.3	580.9	578.7
130°	398.0	410.4	473.7	506.2	504.2
132.5°	353.8	366.2	415.4	449.0	452.0
135°	321.8	333.2	369.5	403.1	404.1
137.5°	295.8	308.4	331.8	365.2	366.2
140°	273.8	284.2	303.3	333.4	333.4
142.5°	258.0	266.2	279.9	304.7	304.7
145°	244.2	251.4	260.7	281.2	280.0
147.5°	232.2	240.5	247.7	259.6	258.4
150°	221.2	230.7	234.7	243.3	242.1
152.5°	211.2	220.7	224.7	230.1	228.9
155°	202.2	211.7	216.9	221.1	216.7
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°	1508.4	1583.4	1789.5	1713.7	1554.9
110°	1395.6	1469.7	1669.2	1692.9	1629.1



(END OF REPORT)