

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: P828404

Luminaire Tested: **OHBL-36SE-MFL-UNV-L940-CD-UPL36**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828404
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-L940-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

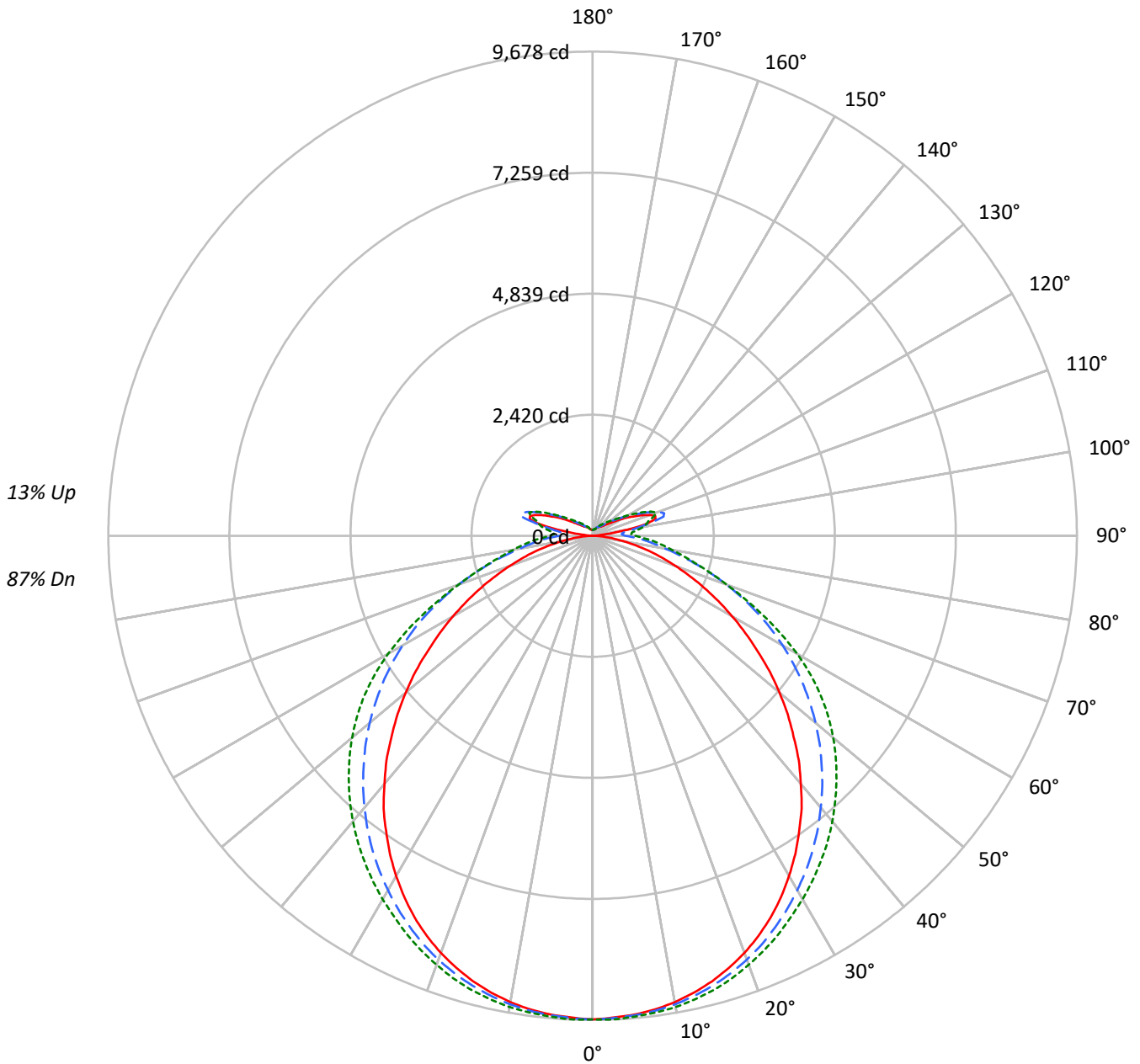
Lumens per Lamp: N/A
Luminaire Lumens: 32051.4 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 239.8
Input Voltage (V): NR
Input Current (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					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	90	90	90	90	90	90	87		
1	105	100	96	92	101	97	93	89	90	87	84	84	82	79	79	77	75	75	75	75	75	75	75	72		
2	96	87	80	75	92	84	78	73	79	74	69	74	69	66	69	66	62	62	62	62	62	62	62	60		
3	87	77	68	62	84	74	67	61	69	63	58	65	60	55	61	57	53	53	53	53	53	53	53	50		
4	80	68	59	52	76	66	58	51	62	55	49	58	52	47	54	49	45	45	45	45	45	45	45	43		
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	39	39	39	39	39	39	39	37		
6	68	54	46	39	65	53	45	39	50	43	37	47	41	36	44	39	35	35	35	35	35	35	35	32		
7	63	49	41	35	60	48	40	34	45	38	33	43	36	32	40	35	31	31	31	31	31	31	31	29		
8	58	45	36	31	56	44	36	30	41	34	29	39	33	28	37	32	27	27	27	27	27	27	27	25		
9	54	41	33	28	52	40	32	27	38	31	26	36	30	26	34	29	25	25	25	25	25	25	25	23		
10	51	38	30	25	49	37	30	25	35	28	24	33	27	23	32	26	23	23	23	23	23	23	23	21		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15291	15291	15291
5°	15129	15146	15257
10°	14959	15012	15241
15°	14729	14853	15201
20°	14443	14657	15114
25°	14083	14413	15027
30°	13610	14149	14943
35°	13051	13868	14886
40°	12393	13542	14839
45°	11630	13189	14766
50°	10801	12832	14669
55°	9802	12395	14443
60°	8778	11880	13872
65°	7669	11222	12847
70°	6472	10384	11750
75°	5254	9415	11175
80°	3773	8714	11706
85°	2128	9057	14675



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	916.2	2.9
10°-20°	2628.3	8.2
20°-30°	3974.9	12.4
30°-40°	4771.9	14.9
40°-50°	4928.6	15.4
50°-60°	4434.2	13.8
60°-70°	3340.2	10.4
70°-80°	2017.0	6.3
80°-90°	993.1	3.1
90°-100°	654.4	2.0
100°-110°	1320.4	4.1
110°-120°	1035.8	3.2
120°-130°	503.1	1.6
130°-140°	256.3	0.8
140°-150°	145.8	0.5
150°-160°	81.2	0.3
160°-170°	38.3	0.1
170°-180°	11.7	0.0
0°-30°	7519.4	23.5
0°-40°	12291.3	38.3
0°-60°	21654.1	67.6
0°-90°	28004.5	87.4
90°-120°	3010.6	9.4
90°-150°	3915.7	12.2
90°-180°	4047.0	12.6
0°-180°	32051.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9669	9669	9669	9669	9669	
5°	9607	9633	9621	9659	9647	913
15°	9219	9264	9307	9385	9394	2599
25°	8419	8512	8632	8767	8788	3873
35°	7198	7366	7669	7901	7948	4500
45°	5682	5968	6467	6820	6893	4386
55°	4025	4442	5116	5502	5568	3609
65°	2456	2958	3620	3800	3758	2440
75°	1157	1661	2097	2151	2130	1234
85°	241	636	1051	1195	1216	279
90°	7	291	656	820	851	20
95°	66	276	593	755	790	211
105°	1301	1379	1465	1237	1164	1237
115°	914	938	1051	1112	1112	925
125°	460	482	564	599	597	432
135°	277	288	324	362	372	219
145°	213	215	222	243	251	135
155°	177	182	182	181	184	79
165°	131	133	134	135	136	38
175°	120	120	121	121	122	12
180°	118	118	118	118	118	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9668.7	9668.7	9668.7	9668.7	9668.7
2.5°	9640.3	9664.0	9649.8	9680.6	9678.2
5°	9607.2	9633.3	9621.4	9659.3	9647.4
7.5°	9550.4	9578.8	9576.4	9619.0	9614.3
10°	9467.6	9498.3	9507.8	9564.6	9564.6
12.5°	9354.0	9394.3	9417.9	9486.5	9488.9
15°	9219.2	9264.1	9306.7	9384.8	9394.3
17.5°	9055.9	9112.6	9171.8	9261.8	9273.6
20°	8871.3	8935.2	9015.6	9110.3	9124.5
22.5°	8658.3	8734.0	8838.2	8949.4	8966.0
25°	8419.4	8511.6	8632.3	8767.1	8788.4
27.5°	8147.2	8253.6	8416.9	8568.4	8587.3
30°	7851.4	7976.8	8180.3	8360.1	8390.9
32.5°	7539.0	7683.4	7934.2	8135.4	8177.9
35°	7198.3	7366.3	7669.2	7901.1	7948.5
37.5°	6862.3	7046.8	7389.9	7655.0	7711.8
40°	6469.4	6699.0	7091.8	7385.2	7453.8
42.5°	6100.4	6348.8	6793.7	7113.1	7179.4
45°	5681.5	5967.8	6467.1	6819.7	6893.0
47.5°	5288.7	5598.7	6152.4	6516.8	6592.6
50°	4874.6	5215.4	5816.4	6197.3	6275.5
52.5°	4460.5	4827.2	5468.5	5863.7	5937.1
55°	4025.1	4441.6	5116.0	5501.7	5567.9
57.5°	3620.5	4060.6	4753.9	5120.7	5160.9
60°	3220.5	3677.2	4384.8	4706.6	4720.7
62.5°	2830.1	3310.5	4006.1	4261.8	4242.8
65°	2456.3	2957.8	3620.5	3800.3	3757.7
67.5°	2096.6	2614.8	3225.3	3341.2	3284.4
70°	1755.8	2281.2	2842.0	2901.1	2849.0
72.5°	1455.3	1964.1	2453.8	2503.6	2465.7
75°	1157.1	1661.2	2096.6	2151.0	2129.7
77.5°	877.9	1367.7	1767.7	1838.6	1843.3
80°	631.8	1100.4	1481.3	1592.6	1606.7
82.5°	416.5	854.2	1242.3	1384.3	1405.5
85°	241.4	636.5	1050.6	1195.0	1216.3
87.5°	104.2	459.1	844.8	974.9	1000.9
90°	7.0	291.1	655.8	819.8	851.4
92.5°	28.9	258.1	582.8	741.3	772.6
95°	65.7	275.8	593.0	755.2	790.4
97.5°	339.3	491.5	693.9	861.9	904.0
100°	712.3	839.4	894.0	997.7	1034.0
102.5°	1107.9	1217.4	1172.2	1108.5	1099.0
105°	1300.8	1378.6	1465.4	1237.1	1164.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1071.0	1118.5	1224.9	1283.0	1264.6
115°	914.5	937.8	1051.2	1111.8	1112.5
117.5°	787.3	804.6	906.2	954.8	952.3
120°	665.6	684.5	778.3	813.5	816.1
122.5°	555.1	579.1	663.3	699.6	695.4
125°	459.8	482.5	563.9	598.7	597.0
127.5°	394.8	404.7	478.5	516.6	523.8
130°	341.8	351.1	412.6	454.6	460.0
132.5°	305.3	316.9	363.4	403.9	416.0
135°	277.4	288.2	323.6	361.7	372.0
137.5°	254.8	264.7	288.9	326.4	336.7
140°	238.1	245.6	262.7	294.6	304.0
142.5°	224.8	230.0	239.0	267.7	274.7
145°	213.2	215.2	221.9	243.4	251.4
147.5°	202.8	206.2	210.6	220.9	228.9
150°	193.2	198.1	199.3	203.4	211.4
152.5°	184.5	189.5	190.6	189.1	194.7
155°	176.7	181.6	181.9	181.3	183.6
157.5°	146.1	148.7	151.3	152.2	152.2
160°	140.8	142.6	145.2	145.2	146.1
162.5°	135.6	137.4	139.1	140.0	140.8
165°	131.3	133.0	133.9	134.8	135.6
167.5°	127.8	128.7	129.5	130.4	130.4
170°	124.3	125.2	126.1	126.1	126.9
172.5°	121.7	122.6	123.5	123.5	123.5
175°	120.0	120.0	120.9	120.9	121.7
177.5°	118.2	119.1	119.1	119.1	120.0
180°	118.2	118.2	118.2	118.2	118.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1312.9	1384.2	1497.2	1419.3	1279.8
110°	1213.0	1283.4	1391.2	1407.9	1351.0



(END OF REPORT)