

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: P827804

Luminaire Tested: **OHBL-36SE-MFL-UNV-L930-CD-UPL36**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827804
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-L930-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

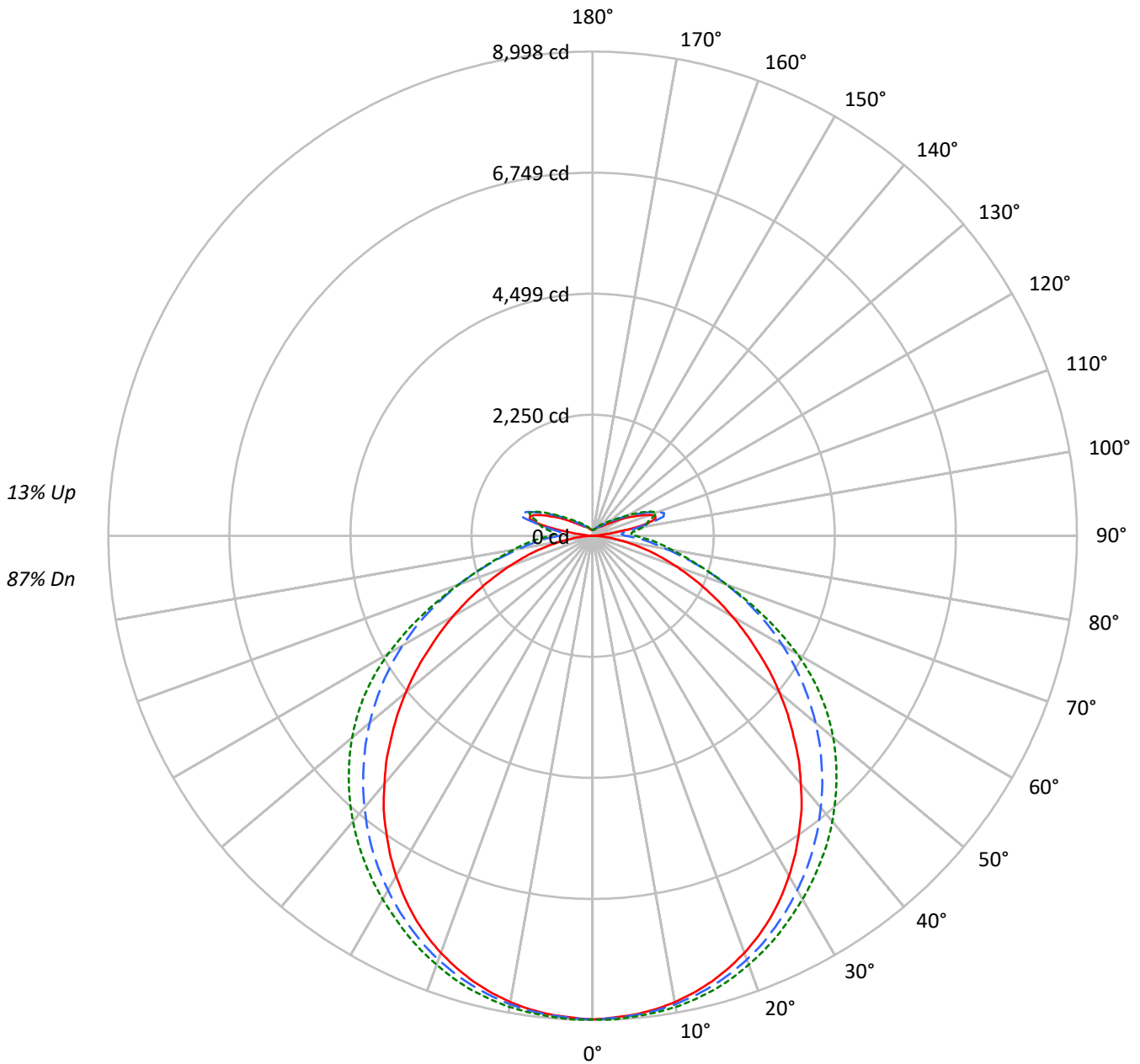
Lumens per Lamp: N/A
Luminaire Lumens: 29798.5 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14216	14216	14216
5°	14066	14081	14184
10°	13908	13957	14170
15°	13694	13809	14133
20°	13428	13627	14051
25°	13093	13400	13970
30°	12653	13154	13892
35°	12134	12893	13840
40°	11522	12590	13796
45°	10812	12262	13728
50°	10042	11930	13638
55°	9113	11524	13428
60°	8161	11045	12897
65°	7129	10433	11944
70°	6017	9654	10924
75°	4885	8753	10389
80°	3507	8102	10883
85°	1978	8421	13644



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	851.8	2.9
10°-20°	2443.6	8.2
20°-30°	3695.5	12.4
30°-40°	4436.5	14.9
40°-50°	4582.2	15.4
50°-60°	4122.6	13.8
60°-70°	3105.4	10.4
70°-80°	1875.2	6.3
80°-90°	923.3	3.1
90°-100°	608.4	2.0
100°-110°	1227.6	4.1
110°-120°	963.0	3.2
120°-130°	467.7	1.6
130°-140°	238.3	0.8
140°-150°	135.5	0.5
150°-160°	75.5	0.3
160°-170°	35.6	0.1
170°-180°	10.9	0.0
0°-30°	6990.9	23.5
0°-40°	11427.4	38.3
0°-60°	20132.1	67.6
0°-90°	26036.1	87.4
90°-120°	2799.0	9.4
90°-150°	3640.5	12.2
90°-180°	3762.0	12.6
0°-180°	29798.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8989	8989	8989	8989	8989	
5°	8932	8956	8945	8980	8969	849
15°	8571	8613	8653	8725	8734	2416
25°	7828	7913	8026	8151	8171	3600
35°	6692	6848	7130	7346	7390	4184
45°	5282	5548	6012	6340	6408	4078
55°	3742	4129	4756	5115	5177	3355
65°	2284	2750	3366	3533	3494	2269
75°	1076	1544	1949	2000	1980	1148
85°	224	592	977	1111	1131	259
90°	6	271	610	762	792	19
95°	61	256	551	702	735	196
105°	1209	1282	1362	1150	1082	1150
115°	850	872	977	1034	1034	860
125°	427	448	524	557	555	402
135°	258	268	301	336	346	204
145°	198	200	206	226	234	126
155°	164	169	169	168	171	73
165°	122	124	124	125	126	35
175°	112	112	112	112	113	11
180°	110	110	110	110	110	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8989.2	8989.2	8989.2	<i>8989.2</i>	8989.2
2.5°	<i>8962.7</i>	<i>8984.7</i>	<i>8971.5</i>	<i>9000.1</i>	<i>8998.0</i>
5°	8931.9	8956.2	8945.1	<i>8980.3</i>	8969.3
7.5°	8879.1	8905.6	8903.3	<i>8942.9</i>	8938.6
10°	8802.1	8830.7	8839.5	<i>8892.3</i>	8892.3
12.5°	8696.5	8734.0	8755.9	<i>8819.7</i>	8821.9
15°	8571.2	8613.0	8652.6	<i>8725.2</i>	8734.0
17.5°	8419.4	8472.1	8527.1	<i>8610.8</i>	8621.8
20°	8247.7	8307.2	8381.9	<i>8470.0</i>	8483.1
22.5°	8049.7	8120.1	8217.0	<i>8320.3</i>	8335.8
25°	7827.6	7913.3	8025.5	<i>8150.9</i>	8170.7
27.5°	7574.6	7673.5	7825.3	<i>7966.1</i>	7983.7
30°	7299.6	7416.1	7605.4	<i>7772.5</i>	7801.1
32.5°	7009.1	7143.3	7376.5	<i>7563.6</i>	7603.1
35°	6692.4	6848.5	7130.1	<i>7345.7</i>	7389.8
37.5°	6379.9	6551.5	6870.5	<i>7117.0</i>	7169.8
40°	6014.7	6228.1	6593.3	<i>6866.1</i>	6929.9
42.5°	5671.6	5902.5	6316.2	<i>6613.1</i>	6674.7
45°	5282.1	5548.3	6012.5	<i>6340.3</i>	6408.5
47.5°	4916.9	5205.2	5719.9	<i>6058.8</i>	6129.2
50°	4532.0	4848.8	5407.6	<i>5761.7</i>	5834.4
52.5°	4147.0	4487.9	5084.2	<i>5451.6</i>	5519.8
55°	3742.2	4129.4	4756.4	<i>5115.0</i>	5176.6
57.5°	3366.0	3775.2	4419.8	<i>4760.8</i>	4798.2
60°	2994.1	3418.8	4076.6	<i>4375.8</i>	4388.9
62.5°	2631.2	3077.8	3724.6	<i>3962.2</i>	3944.6
65°	2283.6	2750.0	3366.0	<i>3533.1</i>	3493.5
67.5°	1949.2	2431.0	2998.6	<i>3106.3</i>	3053.6
70°	1632.3	2120.8	2642.2	<i>2697.2</i>	2648.7
72.5°	1353.0	1826.0	2281.4	<i>2327.6</i>	2292.4
75°	1075.8	1544.4	1949.2	<i>1999.8</i>	1980.0
77.5°	816.2	1271.6	1643.4	<i>1709.4</i>	1713.7
80°	587.4	1023.0	1377.2	<i>1480.6</i>	1493.8
82.5°	387.2	794.2	1155.0	<i>1287.0</i>	1306.8
85°	224.4	591.8	976.8	<i>1111.0</i>	1130.8
87.5°	96.8	426.8	785.4	<i>906.4</i>	930.6
90°	6.5	270.6	609.7	<i>762.2</i>	791.6
92.5°	26.8	239.9	541.8	<i>689.2</i>	718.3
95°	61.1	256.4	551.4	<i>702.1</i>	734.9
97.5°	315.5	457.0	645.1	<i>801.3</i>	840.5
100°	662.3	780.4	831.1	<i>927.6</i>	961.4
102.5°	1030.1	1131.8	1089.8	<i>1030.5</i>	1021.7
105°	1209.3	1281.7	1362.4	<i>1150.2</i>	1082.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	995.7	1039.9	1138.8	1192.8	1175.7
115°	850.2	871.9	977.4	1033.6	1034.3
117.5°	731.9	748.0	842.5	887.7	885.4
120°	618.8	636.4	723.6	756.4	758.7
122.5°	516.1	538.4	616.7	650.4	646.5
125°	427.4	448.5	524.3	556.6	555.1
127.5°	367.1	376.3	444.8	480.3	486.9
130°	317.8	326.4	383.6	422.7	427.7
132.5°	283.8	294.6	337.9	375.6	386.8
135°	257.9	268.0	300.9	336.3	345.9
137.5°	236.9	246.1	268.6	303.4	313.1
140°	221.3	228.4	244.2	273.9	282.6
142.5°	209.0	213.8	222.2	248.9	255.4
145°	198.2	200.1	206.3	226.3	233.8
147.5°	188.5	191.7	195.8	205.4	212.8
150°	179.6	184.2	185.3	189.1	196.5
152.5°	171.5	176.1	177.2	175.8	181.0
155°	164.3	168.9	169.1	168.5	170.7
157.5°	135.8	138.2	140.6	141.5	141.5
160°	131.0	132.6	135.0	135.0	135.8
162.5°	126.1	127.7	129.3	130.1	131.0
165°	122.1	123.7	124.5	125.3	126.1
167.5°	118.8	119.6	120.4	121.2	121.2
170°	115.6	116.4	117.2	117.2	118.0
172.5°	113.2	114.0	114.8	114.8	114.8
175°	111.6	111.6	112.4	112.4	113.2
177.5°	109.9	110.7	110.7	110.7	111.6
180°	109.9	109.9	109.9	109.9	109.9



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1220.7	1286.9	1392.0	1319.5	1189.9
110°	1127.7	1193.2	1293.4	1308.9	1256.1



(END OF REPORT)