

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: P827803

Luminaire Tested: **OHBL-36SE-MFL-UNV-L930-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827803
REPORT IS A COMBINATION OF REPORTS P826175 AND G3-2310-221-8
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-UPL18
Description:
Light Source: -
Ballast/Driver: -

Summary

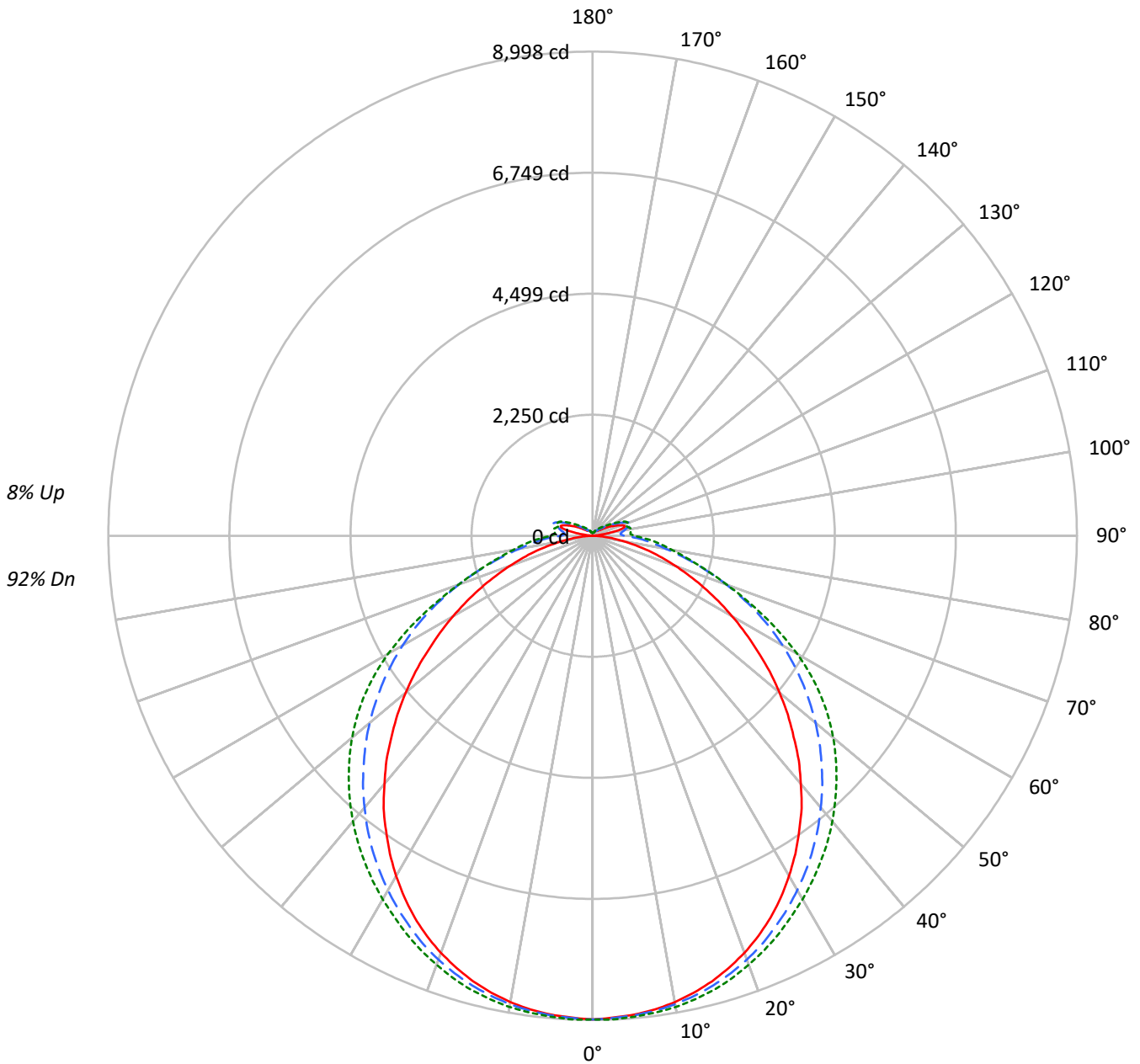
Lumens per Lamp: N/A
Luminaire Lumens: 28349.8 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 223.3
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: P827803

CATALOG NUMBER: OHBL-36SE-MFL-UNV-L930-CD-UPL18

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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92																			
1	106	101	97	93	103	98	94	91	92	89	86	87	85	82	82	80	78	76																			
2	97	88	81	75	93	86	79	74	81	75	71	76	72	68	72	68	65	63																			
3	88	77	69	63	85	75	68	61	71	65	59	67	62	57	64	59	55	53																			
4	80	68	60	53	78	67	58	52	63	56	50	60	54	49	57	52	47	45																			
5	74	61	52	45	71	59	51	45	56	49	44	54	47	42	51	46	41	39																			
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	41	36	34																			
7	63	50	41	35	61	49	40	34	46	39	34	44	38	33	42	36	32	30																			
8	59	45	37	31	57	44	36	31	42	35	30	40	34	29	39	33	29	27																			
9	55	42	33	28	53	41	33	28	39	32	27	37	31	26	36	30	26	24																			
10	51	38	30	25	50	38	30	25	36	29	25	35	28	24	33	28	24	22																			

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



TEST NUMBER: P827803

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	851.8	3.0
10°-20°	2443.6	8.6
20°-30°	3695.5	13.0
30°-40°	4436.5	15.6
40°-50°	4582.2	16.2
50°-60°	4122.6	14.5
60°-70°	3105.4	11.0
70°-80°	1875.2	6.6
80°-90°	920.7	3.2
90°-100°	524.4	1.8
100°-110°	701.0	2.5
110°-120°	542.3	1.9
120°-130°	271.5	1.0
130°-140°	137.6	0.5
140°-150°	76.2	0.3
150°-160°	40.5	0.1
160°-170°	17.4	0.1
170°-180°	5.3	0.0
0°-30°	6990.9	24.7
0°-40°	11427.4	40.3
0°-60°	20132.1	71.0
0°-90°	26033.5	91.8
90°-120°	1767.8	6.2
90°-150°	2253.1	7.9
90°-180°	2316.0	8.2
0°-180°	28349.8	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°	3	251	586	740	773	16
95°	42	222	522	667	707	106
105°	614	684	748	673	659	584
115°	432	470	568	614	622	436
125°	220	236	308	346	351	206
135°	135	142	172	207	217	107
145°	109	109	113	132	138	68
155°	92	95	94	93	95	39
165°	60	61	61	61	61	17
175°	54	54	55	55	55	5
180°	54	54	54	54	54	



TEST NUMBER: P827803

CATALOG NUMBER: OHBL-36SE-MFL-UNV-L930-CD-UPL18

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°	3.2	251.2	586.3	<i>740.4</i>	773.0
92.5°	17.1	218.1	524.0	<i>673.0</i>	703.7
95°	41.7	222.5	522.3	<i>667.4</i>	706.6
97.5°	170.8	304.2	555.4	<i>692.2</i>	724.9
100°	338.1	455.5	600.8	<i>706.9</i>	729.4
102.5°	521.6	608.8	642.0	<i>687.8</i>	698.4
105°	614.4	683.5	748.0	<i>673.3</i>	659.0



TEST NUMBER: P827803

CATALOG NUMBER: OHBL-36SE-MFL-UNV-L930-CD-UPL18

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	504.2	549.3	647.3	691.6	680.2
115°	432.3	470.1	568.3	614.1	622.1
117.5°	373.0	399.6	489.3	536.1	543.4
120°	314.8	338.1	420.5	462.1	469.3
122.5°	266.3	284.6	361.2	400.6	405.6
125°	219.7	236.0	307.7	346.5	351.4
127.5°	186.8	198.4	263.0	301.7	306.7
130°	164.2	172.0	225.2	263.4	270.9
132.5°	148.8	155.6	195.6	231.7	242.1
135°	135.1	141.9	172.3	206.9	216.6
137.5°	124.6	131.4	152.2	184.6	194.2
140°	117.9	122.5	135.9	163.9	173.5
142.5°	112.8	115.2	122.0	147.0	154.4
145°	109.3	108.7	113.3	131.8	138.4
147.5°	103.6	105.2	106.9	117.3	123.9
150°	98.8	102.6	102.0	105.0	112.4
152.5°	95.5	98.5	98.0	96.6	101.0
155°	91.5	95.3	93.9	92.6	94.7
157.5°	67.1	67.9	68.7	69.5	69.5
160°	64.7	64.7	65.5	66.3	66.3
162.5°	62.2	62.2	63.0	63.9	63.9
165°	59.8	60.6	60.6	61.4	61.4
167.5°	58.2	58.2	59.0	59.0	59.8
170°	56.6	56.6	57.4	57.4	57.4
172.5°	55.0	55.8	55.8	55.8	55.8
175°	54.2	54.2	55.0	55.0	55.0
177.5°	53.4	54.2	54.2	54.2	54.2
180°	54.2	54.2	54.2	54.2	54.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	620.1	683.8	771.2	714.9	655.6
110°	569.1	630.6	725.2	738.3	693.5



(END OF REPORT)