

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: P393096

Luminaire Tested: **14EN-LD2-38-UNV-L82765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-53)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-38-UNV-L82765-W2A-1-U (5700K)
Description: 1X4 ENCOUNTER, 3800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3636.7 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

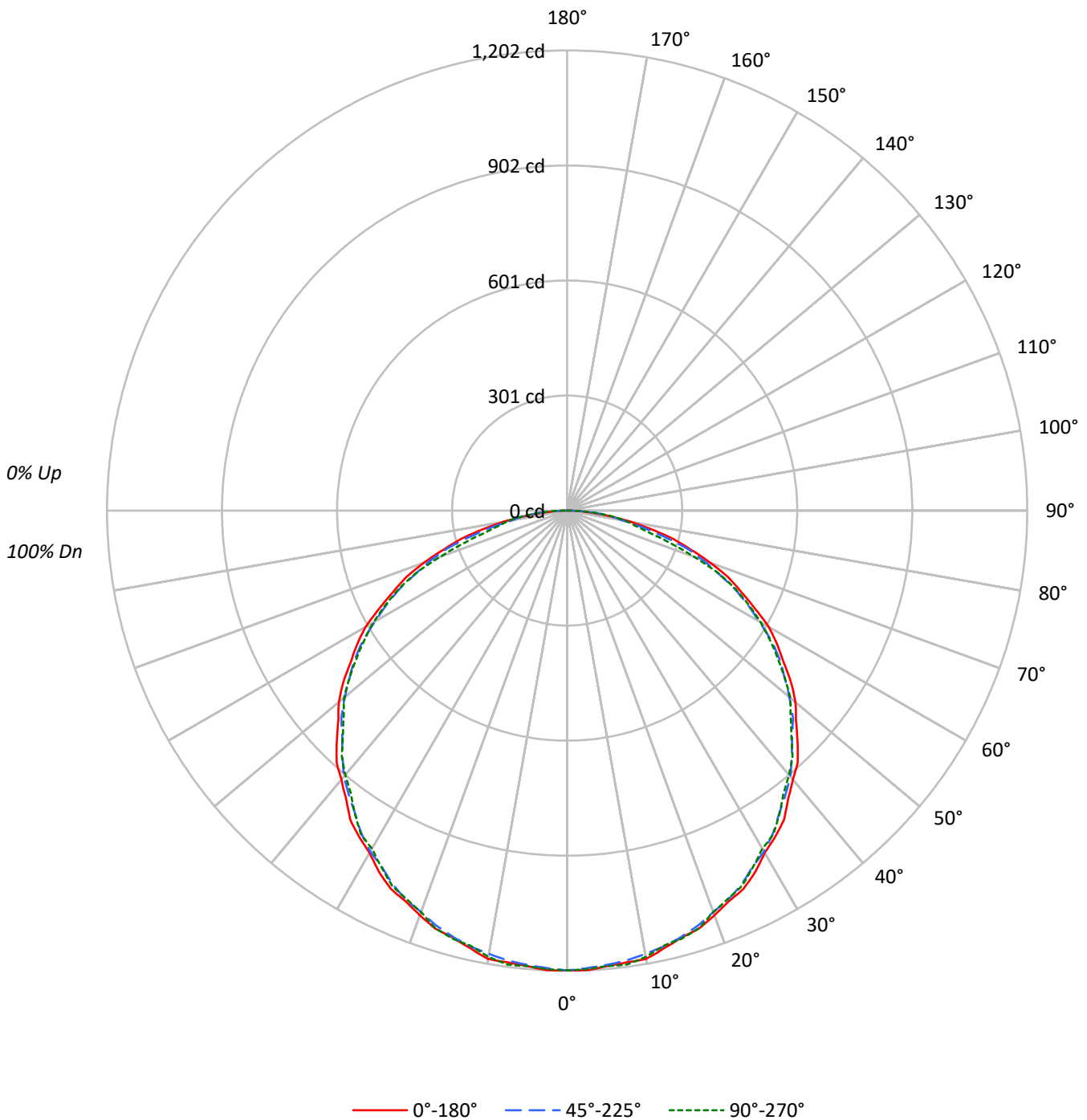
Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3232	3232	3232
5°	3226	3218	3226
10°	3250	3213	3234
15°	3217	3211	3225
20°	3221	3196	3196
25°	3237	3199	3211
30°	3207	3196	3168
35°	3242	3172	3176
40°	3223	3186	3166
45°	3239	3162	3151
50°	3260	3172	3184
55°	3238	3179	3147
60°	3273	3118	3144
65°	3191	3068	3093
70°	3124	2972	2768
75°	2977	2705	2295
80°	2599	2241	2435
85°	1905	2411	2439



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.7	3.1
10°-20°	326.2	9.0
20°-30°	497.6	13.7
30°-40°	607.8	16.7
40°-50°	646.5	17.8
50°-60°	606.9	16.7
60°-70°	481.3	13.2
70°-80°	274.2	7.5
80°-90°	82.5	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	937.4	25.8
0°-40°	1545.3	42.5
0°-60°	2798.6	77.0
0°-90°	3636.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3636.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1201	1201	1201	1201	1201	
5°	1194	1201	1191	1195	1194	114
15°	1155	1157	1153	1155	1158	327
25°	1090	1080	1078	1078	1081	501
35°	987	975	966	967	967	614
45°	851	846	831	832	828	657
55°	690	686	678	671	671	620
65°	501	498	482	484	486	498
75°	286	276	260	233	221	298
85°	62	68	78	78	79	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1200.9	1200.9	1200.9	1200.9	1200.9
2.5°	1201.9	1200.9	1196.1	1201.9	1199.0
5°	1194.2	1200.9	1191.3	1195.1	1194.2
7.5°	1190.3	1188.4	1185.5	1192.2	1196.1
10°	1189.4	1179.7	1175.9	1182.6	1183.6
12.5°	1171.0	1173.9	1166.2	1168.1	1164.3
15°	1154.7	1156.6	1152.7	1154.7	1157.5
17.5°	1145.0	1139.2	1136.3	1140.2	1144.1
20°	1124.8	1125.7	1116.1	1120.9	1116.1
22.5°	1104.5	1105.5	1099.7	1099.7	1097.8
25°	1090.1	1079.5	1077.5	1078.5	1081.4
27.5°	1064.1	1060.2	1048.6	1052.5	1050.6
30°	1032.2	1036.1	1028.4	1020.7	1019.7
32.5°	1011.0	1004.3	1000.4	997.6	1002.4
35°	986.9	975.4	965.7	966.7	966.7
37.5°	948.4	947.4	936.8	932.0	929.1
40°	917.6	913.7	907.0	900.2	901.2
42.5°	891.5	879.0	868.4	866.5	871.3
45°	851.1	846.2	830.8	831.8	827.9
47.5°	810.6	809.6	800.0	792.3	791.3
50°	778.8	769.1	757.6	755.6	760.5
52.5°	737.3	732.5	716.1	716.1	716.1
55°	690.1	686.2	677.6	670.8	670.8
57.5°	650.6	642.9	632.3	627.4	627.4
60°	608.2	596.6	579.3	581.2	584.1
62.5°	552.3	546.5	531.1	529.1	534.9
65°	501.2	498.3	481.9	483.8	485.8
67.5°	455.9	443.4	425.0	431.8	427.9
70°	397.1	390.3	377.8	364.3	351.8
72.5°	338.3	334.4	327.7	294.9	283.4
75°	286.3	275.7	260.2	233.2	220.7
77.5°	224.6	221.7	199.5	178.3	180.2
80°	167.7	169.6	144.6	153.2	157.1
82.5°	109.9	113.7	118.5	124.3	121.4
85°	61.7	68.4	78.1	78.1	79.0
87.5°	22.2	32.8	34.7	34.7	34.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)