

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: P393094

Luminaire Tested: **14EN-LD2-38-UNV-L82765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393094
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 (4500K)
Description: 1X4 ENCOUNTER, 3800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3629.2 lumens
Efficiency: N/A
Efficacy: 99.4 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

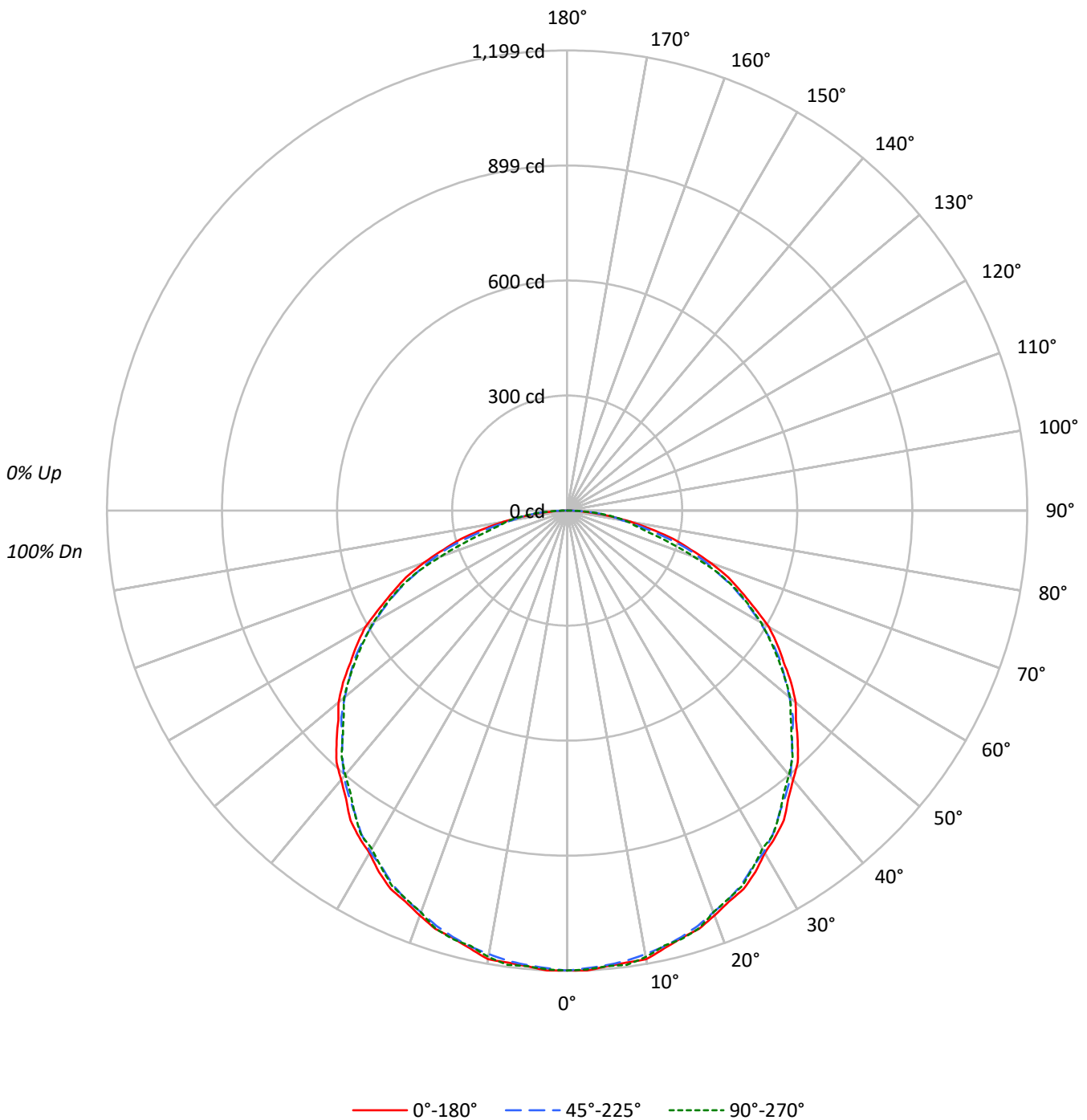
Input Watts (W): 36.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3225	3225	3225
5°	3219	3211	3219
10°	3243	3206	3227
15°	3210	3205	3218
20°	3214	3190	3190
25°	3230	3193	3204
30°	3201	3189	3162
35°	3235	3166	3169
40°	3217	3179	3159
45°	3232	3155	3144
50°	3254	3165	3177
55°	3231	3172	3141
60°	3266	3111	3137
65°	3185	3062	3087
70°	3118	2966	2762
75°	2970	2700	2290
80°	2594	2236	2430
85°	1902	2405	2436



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.4	3.1
10°-20°	325.5	9.0
20°-30°	496.5	13.7
30°-40°	606.6	16.7
40°-50°	645.1	17.8
50°-60°	605.7	16.7
60°-70°	480.4	13.2
70°-80°	273.7	7.5
80°-90°	82.3	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°	935.5	25.8
0°-40°	1542.1	42.5
0°-60°	2792.9	77.0
0°-90°	3629.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3629.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1198	1198	1198	1198	1198	
5°	1192	1198	1189	1193	1192	114
15°	1152	1154	1150	1152	1155	326
25°	1088	1077	1075	1076	1079	500
35°	985	973	964	965	965	613
45°	849	844	829	830	826	656
55°	689	685	676	669	669	619
65°	500	497	481	483	485	497
75°	286	275	260	233	220	298
85°	62	68	78	78	79	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1198.4	1198.4	1198.4	1198.4	1198.4
2.5°	1199.4	1198.4	1193.6	1199.4	1196.5
5°	1191.7	1198.4	1188.8	1192.7	1191.7
7.5°	1187.9	1185.9	1183.1	1189.8	1193.6
10°	1186.9	1177.3	1173.4	1180.2	1181.1
12.5°	1168.6	1171.5	1163.8	1165.7	1161.9
15°	1152.3	1154.2	1150.3	1152.3	1155.2
17.5°	1142.7	1136.9	1134.0	1137.8	1141.7
20°	1122.5	1123.4	1113.8	1118.6	1113.8
22.5°	1102.3	1103.2	1097.4	1097.4	1095.5
25°	1087.8	1077.3	1075.3	1076.3	1079.2
27.5°	1061.9	1058.0	1046.5	1050.3	1048.4
30°	1030.1	1034.0	1026.3	1018.6	1017.6
32.5°	1009.0	1002.2	998.4	995.5	1000.3
35°	984.9	973.4	963.8	964.7	964.7
37.5°	946.4	945.5	934.9	930.1	927.2
40°	915.7	911.8	905.1	898.3	899.3
42.5°	889.7	877.2	866.6	864.7	869.5
45°	849.3	844.5	829.1	830.1	826.2
47.5°	808.9	807.9	798.3	790.6	789.7
50°	777.2	767.5	756.0	754.1	758.9
52.5°	735.8	731.0	714.6	714.6	714.6
55°	688.7	684.8	676.2	669.4	669.4
57.5°	649.2	641.5	631.0	626.2	626.2
60°	606.9	595.4	578.1	580.0	582.9
62.5°	551.1	545.4	530.0	528.0	533.8
65°	500.2	497.3	480.9	482.8	484.8
67.5°	454.9	442.4	424.2	430.9	427.1
70°	396.3	389.5	377.0	363.6	351.1
72.5°	337.6	333.8	327.0	294.3	282.8
75°	285.7	275.1	259.7	232.8	220.3
77.5°	224.1	221.2	199.1	177.9	179.9
80°	167.4	169.3	144.3	152.9	156.8
82.5°	109.6	113.5	118.3	124.1	121.2
85°	61.6	68.3	77.9	77.9	78.9
87.5°	22.1	32.7	34.6	34.6	34.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)