

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: P393095

Luminaire Tested: **14EN-LD2-38-UNV-L82765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393095
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 (5000K)
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: 3623.4 lumens
Efficiency: N/A
Efficacy: 99.5 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

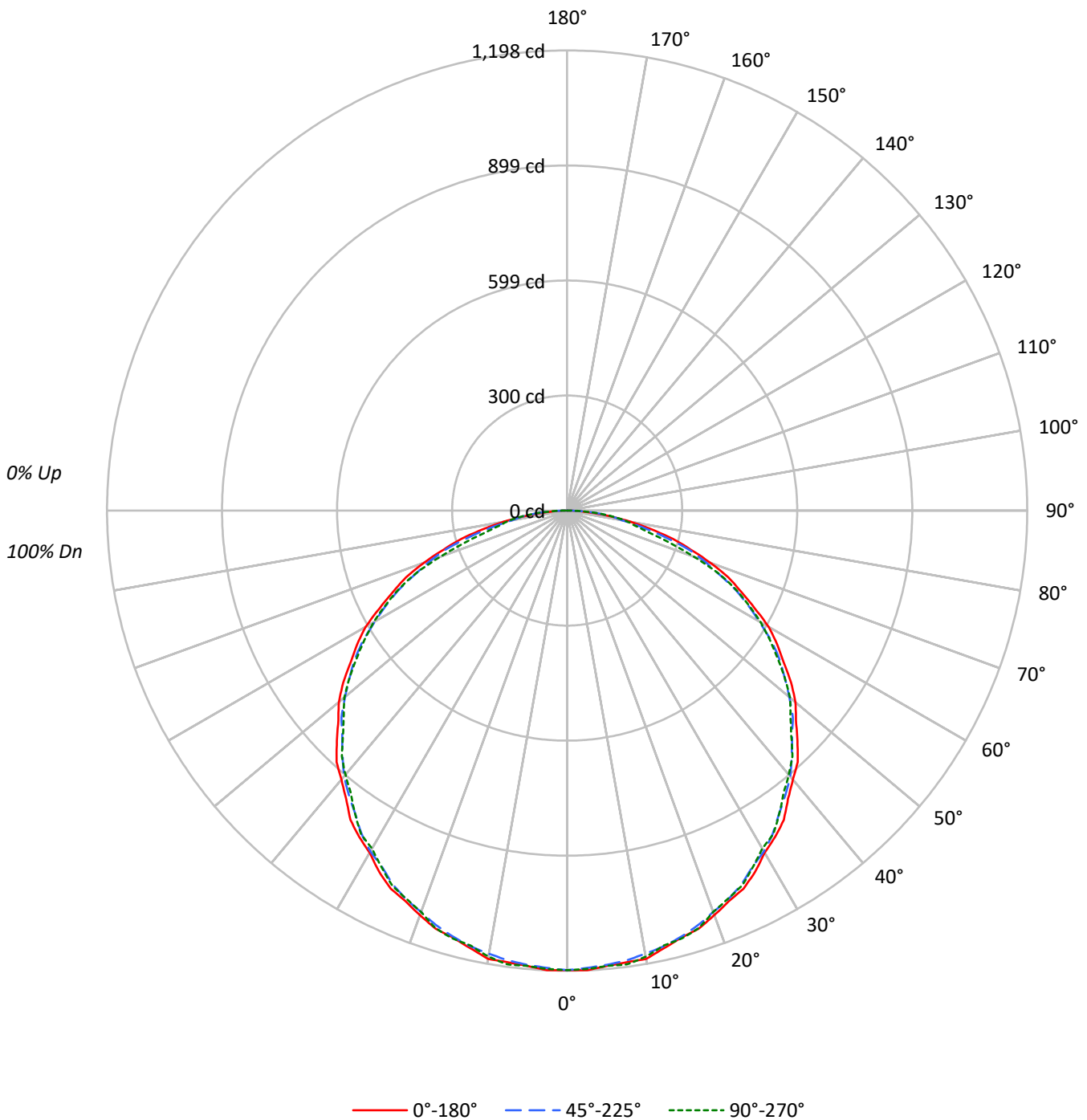
Input Watts (W): 36.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3220	3220	3220
5°	3214	3206	3214
10°	3238	3201	3222
15°	3205	3200	3213
20°	3209	3184	3184
25°	3225	3188	3199
30°	3196	3184	3157
35°	3230	3161	3164
40°	3211	3174	3154
45°	3227	3150	3139
50°	3248	3160	3172
55°	3226	3167	3136
60°	3261	3106	3132
65°	3179	3057	3082
70°	3113	2961	2758
75°	2965	2696	2286
80°	2590	2232	2425
85°	1899	2402	2430



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.3	3.1
10°-20°	325.0	9.0
20°-30°	495.7	13.7
30°-40°	605.6	16.7
40°-50°	644.1	17.8
50°-60°	604.7	16.7
60°-70°	479.6	13.2
70°-80°	273.2	7.5
80°-90°	82.2	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°	934.0	25.8
0°-40°	1539.6	42.5
0°-60°	2788.4	77.0
0°-90°	3623.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3623.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1196	1196	1196	1196	1196	
5°	1190	1196	1187	1191	1190	113
15°	1150	1152	1148	1150	1153	326
25°	1086	1076	1074	1074	1077	499
35°	983	972	962	963	963	612
45°	848	843	828	829	825	655
55°	688	684	675	668	668	618
65°	499	496	480	482	484	496
75°	285	275	259	232	220	297
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°	1196.5	1196.5	1196.5	1196.5	1196.5
2.5°	1197.5	1196.5	1191.7	1197.5	1194.6
5°	1189.8	1196.5	1186.9	1190.7	1189.8
7.5°	1185.9	1184.0	1181.1	1187.9	1191.7
10°	1185.0	1175.4	1171.5	1178.3	1179.2
12.5°	1166.7	1169.6	1161.9	1163.9	1160.0
15°	1150.4	1152.3	1148.5	1150.4	1153.3
17.5°	1140.8	1135.0	1132.2	1136.0	1139.8
20°	1120.6	1121.6	1112.0	1116.8	1112.0
22.5°	1100.5	1101.4	1095.7	1095.7	1093.8
25°	1086.1	1075.5	1073.6	1074.5	1077.4
27.5°	1060.1	1056.3	1044.8	1048.6	1046.7
30°	1028.5	1032.3	1024.6	1016.9	1016.0
32.5°	1007.3	1000.6	996.8	993.9	998.7
35°	983.3	971.8	962.2	963.2	963.2
37.5°	944.9	943.9	933.4	928.6	925.7
40°	914.2	910.3	903.6	896.9	897.9
42.5°	888.3	875.8	865.2	863.3	868.1
45°	847.9	843.1	827.8	828.7	824.9
47.5°	807.6	806.6	797.0	789.3	788.4
50°	775.9	766.3	754.8	752.9	757.7
52.5°	734.6	729.8	713.5	713.5	713.5
55°	687.6	683.7	675.1	668.4	668.4
57.5°	648.2	640.5	629.9	625.1	625.1
60°	605.9	594.4	577.1	579.0	581.9
62.5°	550.2	544.5	529.1	527.2	533.0
65°	499.3	496.5	480.1	482.1	484.0
67.5°	454.2	441.7	423.5	430.2	426.4
70°	395.6	388.9	376.4	363.0	350.5
72.5°	337.1	333.2	326.5	293.8	282.3
75°	285.2	274.6	259.3	232.4	219.9
77.5°	223.7	220.9	198.8	177.7	179.6
80°	167.1	169.0	144.0	152.7	156.5
82.5°	109.5	113.3	118.1	123.9	121.0
85°	61.5	68.2	77.8	77.8	78.7
87.5°	22.1	32.6	34.6	34.6	34.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)