

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: P393099

Luminaire Tested: **14EN-LD2-38-UNV-L83050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393099
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-L83050-W2A-1-U (3000K)
Description: 1X4 ENCOUNTER, 3800 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3712.7 lumens
Efficiency: N/A
Efficacy: 99.8 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

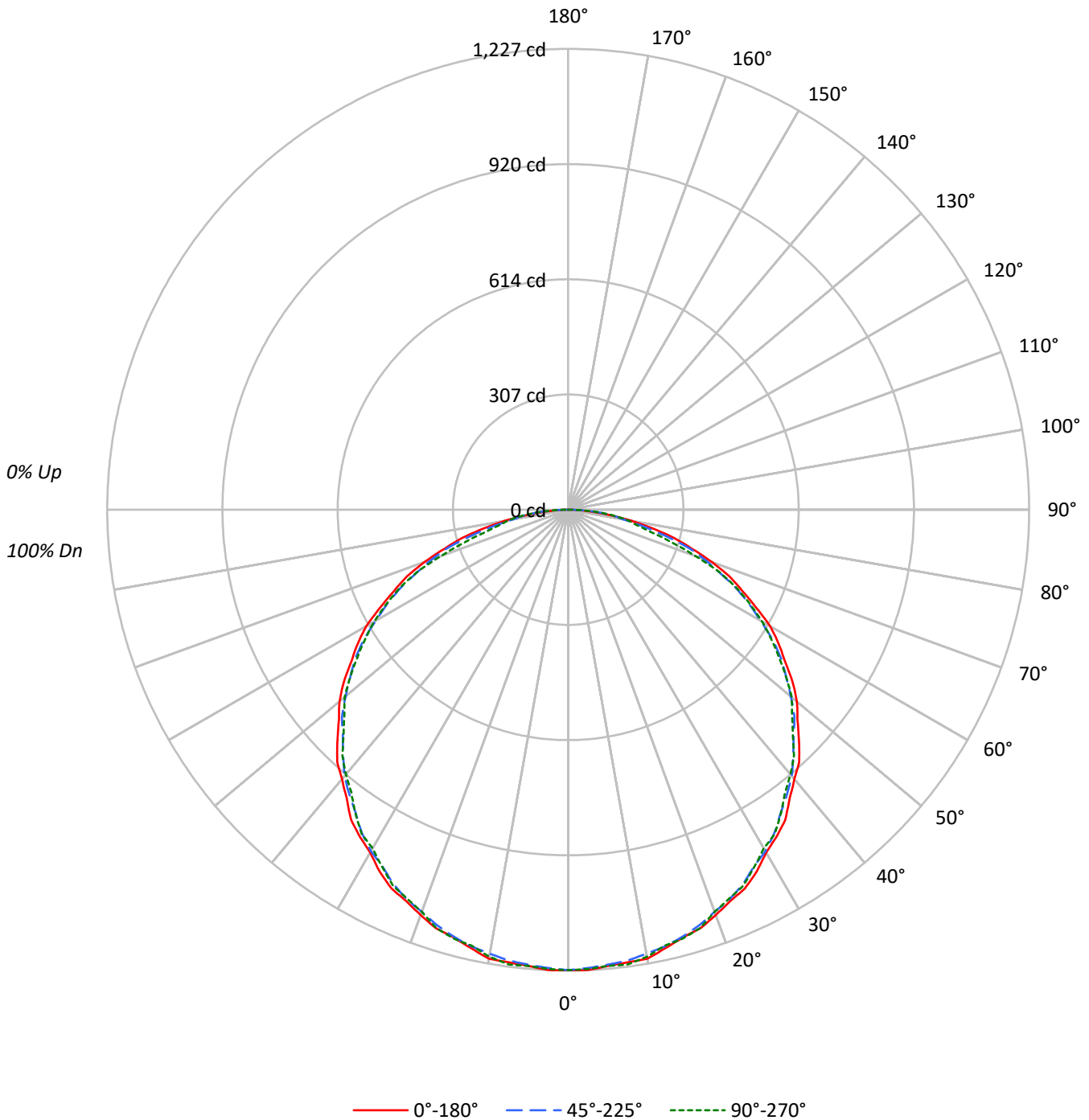
Input Watts (W): 37.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3299	3299	3299
5°	3293	3285	3293
10°	3318	3280	3302
15°	3284	3278	3292
20°	3288	3263	3263
25°	3304	3266	3278
30°	3274	3262	3235
35°	3310	3239	3242
40°	3290	3253	3232
45°	3306	3228	3217
50°	3328	3238	3250
55°	3305	3245	3213
60°	3342	3183	3209
65°	3258	3133	3158
70°	3190	3035	2825
75°	3038	2763	2342
80°	2653	2287	2486
85°	1945	2461	2492



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	3.1
10°-20°	333.0	9.0
20°-30°	508.0	13.7
30°-40°	620.5	16.7
40°-50°	660.0	17.8
50°-60°	619.6	16.7
60°-70°	491.4	13.2
70°-80°	280.0	7.5
80°-90°	84.2	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°	957.0	25.8
0°-40°	1577.5	42.5
0°-60°	2857.1	77.0
0°-90°	3712.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3712.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1226	1226	1226	1226	1226	
5°	1219	1226	1216	1220	1219	116
15°	1179	1181	1177	1179	1182	334
25°	1113	1102	1100	1101	1104	511
35°	1008	996	986	987	987	627
45°	869	864	848	849	845	671
55°	704	701	692	685	685	633
65°	512	509	492	494	496	508
75°	292	281	266	238	225	305
85°	63	70	80	80	81	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1226.0	1226.0	1226.0	1226.0	1226.0
2.5°	1227.0	1226.0	1221.1	1227.0	1224.0
5°	1219.1	1226.0	1216.2	1220.1	1219.1
7.5°	1215.2	1213.2	1210.3	1217.1	1221.1
10°	1214.2	1204.4	1200.4	1207.3	1208.3
12.5°	1195.5	1198.4	1190.6	1192.5	1188.6
15°	1178.8	1180.7	1176.8	1178.8	1181.7
17.5°	1168.9	1163.0	1160.1	1164.0	1167.9
20°	1148.3	1149.3	1139.4	1144.3	1139.4
22.5°	1127.6	1128.6	1122.7	1122.7	1120.7
25°	1112.8	1102.0	1100.1	1101.0	1104.0
27.5°	1086.3	1082.3	1070.5	1074.5	1072.5
30°	1053.8	1057.7	1049.9	1042.0	1041.0
32.5°	1032.2	1025.3	1021.3	1018.4	1023.3
35°	1007.6	995.8	985.9	986.9	986.9
37.5°	968.2	967.2	956.4	951.5	948.5
40°	936.7	932.8	925.9	919.0	920.0
42.5°	910.2	897.4	886.5	884.6	889.5
45°	868.8	863.9	848.2	849.1	845.2
47.5°	827.5	826.5	816.7	808.8	807.8
50°	795.0	785.2	773.4	771.4	776.3
52.5°	752.7	747.8	731.1	731.1	731.1
55°	704.5	700.6	691.7	684.8	684.8
57.5°	664.2	656.3	645.5	640.5	640.5
60°	620.9	609.1	591.4	593.3	596.3
62.5°	563.8	557.9	542.2	540.2	546.1
65°	511.7	508.7	492.0	493.9	495.9
67.5°	465.4	452.6	433.9	440.8	436.9
70°	405.4	398.5	385.7	371.9	359.1
72.5°	345.4	341.4	334.5	301.1	289.3
75°	292.2	281.4	265.7	238.1	225.3
77.5°	229.3	226.3	203.7	182.0	184.0
80°	171.2	173.2	147.6	156.4	160.4
82.5°	112.2	116.1	121.0	126.9	124.0
85°	63.0	69.9	79.7	79.7	80.7
87.5°	22.6	33.5	35.4	35.4	35.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)