

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: P393103

Luminaire Tested: **14EN-LD2-38-UNV-L83050-W2A-1-U (5000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393103
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 (5000K)
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: 3844.4 lumens
Efficiency: N/A
Efficacy: 105.6 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

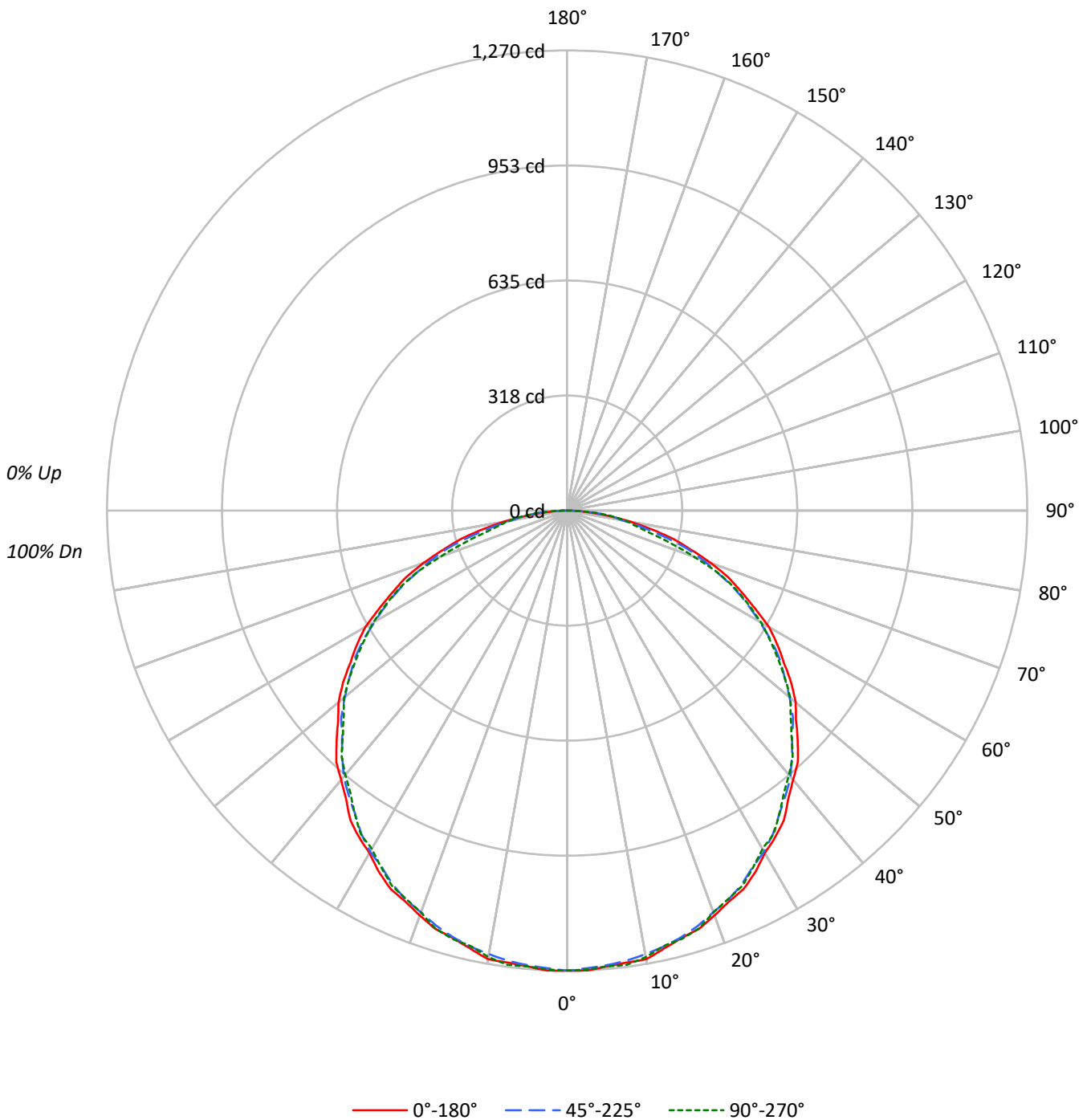
Input Watts (W): 36.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3416	3416	3416
5°	3410	3402	3410
10°	3436	3396	3419
15°	3400	3395	3409
20°	3405	3379	3379
25°	3421	3382	3394
30°	3391	3378	3350
35°	3427	3354	3357
40°	3407	3368	3346
45°	3424	3342	3331
50°	3446	3352	3365
55°	3423	3361	3327
60°	3460	3295	3323
65°	3373	3244	3270
70°	3303	3142	2926
75°	3146	2860	2426
80°	2748	2368	2574
85°	2013	2547	2578



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.2	3.1
10°-20°	344.8	9.0
20°-30°	526.0	13.7
30°-40°	642.5	16.7
40°-50°	683.4	17.8
50°-60°	641.6	16.7
60°-70°	508.8	13.2
70°-80°	289.9	7.5
80°-90°	87.2	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°	991.0	25.8
0°-40°	1633.5	42.5
0°-60°	2958.5	77.0
0°-90°	3844.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3844.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1270	1270	1270	1270	1270	
5°	1262	1270	1259	1263	1262	120
15°	1221	1223	1219	1221	1224	346
25°	1152	1141	1139	1140	1143	529
35°	1043	1031	1021	1022	1022	649
45°	900	895	878	879	875	695
55°	730	725	716	709	709	656
65°	530	527	509	512	514	526
75°	303	291	275	247	233	315
85°	65	72	82	82	84	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1269.5	1269.5	1269.5	1269.5	1269.5
2.5°	1270.5	1269.5	1264.4	1270.5	1267.5
5°	1262.4	1269.5	1259.3	1263.4	1262.4
7.5°	1258.3	1256.3	1253.2	1260.3	1264.4
10°	1257.3	1247.1	1243.0	1250.1	1251.2
12.5°	1237.9	1241.0	1232.8	1234.9	1230.8
15°	1220.6	1222.6	1218.6	1220.6	1223.7
17.5°	1210.4	1204.3	1201.2	1205.3	1209.4
20°	1189.0	1190.0	1179.8	1184.9	1179.8
22.5°	1167.6	1168.6	1162.5	1162.5	1160.5
25°	1152.3	1141.1	1139.1	1140.1	1143.2
27.5°	1124.8	1120.8	1108.5	1112.6	1110.6
30°	1091.2	1095.3	1087.1	1079.0	1078.0
32.5°	1068.8	1061.7	1057.6	1054.5	1059.6
35°	1043.3	1031.1	1020.9	1021.9	1021.9
37.5°	1002.6	1001.5	990.3	985.2	982.2
40°	970.0	965.9	958.8	951.6	952.6
42.5°	942.5	929.2	918.0	916.0	921.1
45°	899.7	894.6	878.3	879.3	875.2
47.5°	856.9	855.8	845.7	837.5	836.5
50°	823.2	813.1	800.8	798.8	803.9
52.5°	779.4	774.3	757.0	757.0	757.0
55°	729.5	725.4	716.3	709.1	709.1
57.5°	687.7	679.6	668.4	663.3	663.3
60°	642.9	630.7	612.3	614.4	617.4
62.5°	583.8	577.7	561.4	559.4	565.5
65°	529.8	526.8	509.4	511.5	513.5
67.5°	481.9	468.7	449.3	456.5	452.4
70°	419.8	412.6	399.4	385.1	371.9
72.5°	357.6	353.5	346.4	311.8	299.5
75°	302.6	291.4	275.1	246.6	233.3
77.5°	237.4	234.3	210.9	188.5	190.5
80°	177.3	179.3	152.8	162.0	166.1
82.5°	116.2	120.2	125.3	131.4	128.4
85°	65.2	72.3	82.5	82.5	83.5
87.5°	23.4	34.6	36.7	36.7	36.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)