

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: P392944

Luminaire Tested: **12EN-LD2-39-UNV-L83050-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-40)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-39-UNV-L83050-W2A-1-U (5700K)
Description: 1X2 ENCOUNTER, 3900 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4024.3 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

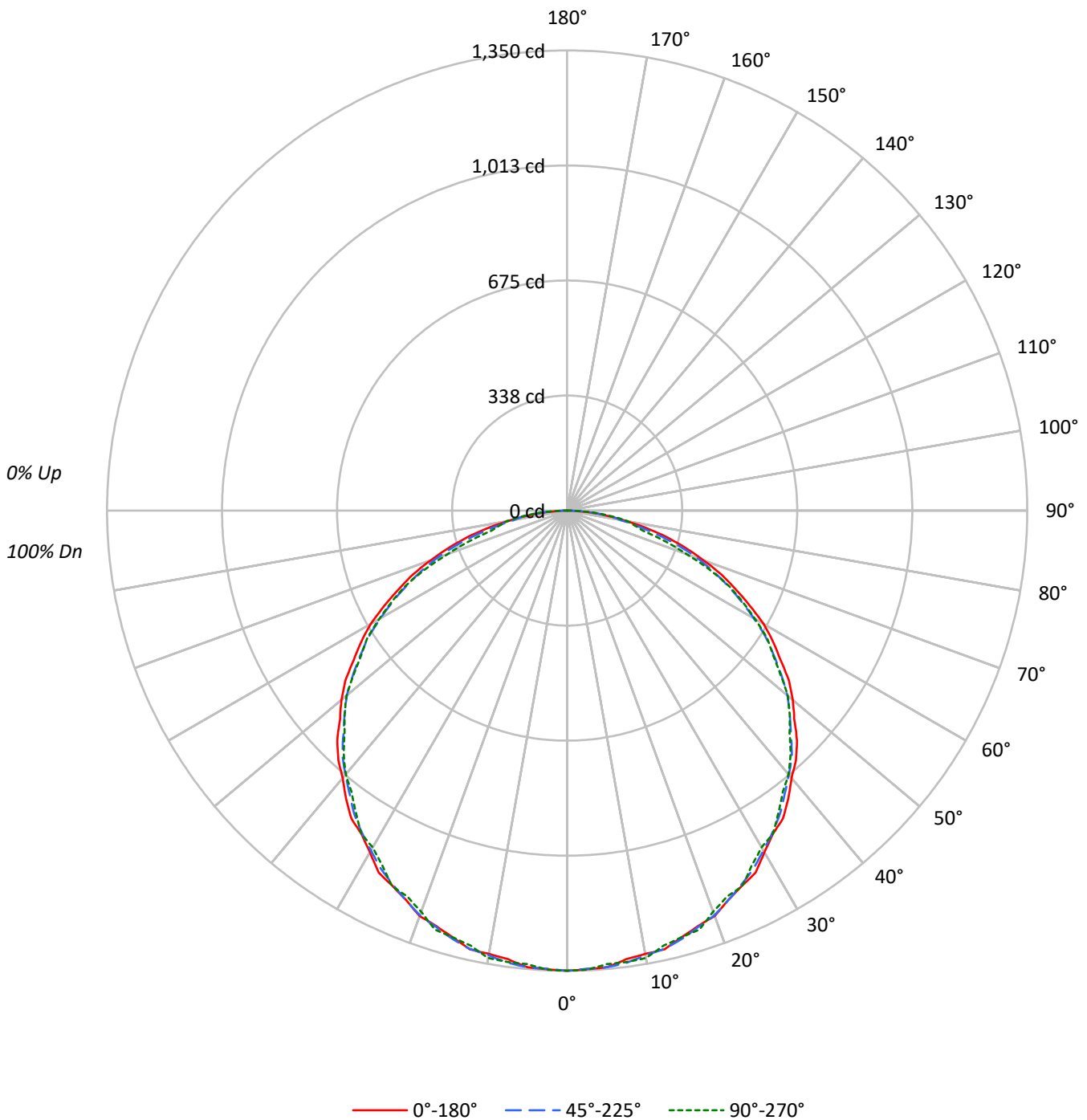
Input Watts (W): 35.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7266	7266	7266
5°	7266	7266	7216
10°	7216	7238	7283
15°	7221	7249	7221
20°	7247	7236	7172
25°	7212	7188	7218
30°	7193	7155	7091
35°	7250	7149	7102
40°	7194	7108	7101
45°	7259	7065	7026
50°	7234	7063	7072
55°	7170	6950	6912
60°	7161	6810	6854
65°	6942	6604	6682
70°	6686	6381	5868
75°	6313	5721	4810
80°	5464	4925	5588
85°	4341	5094	5409



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.6	3.2
10°-20°	366.8	9.1
20°-30°	558.2	13.9
30°-40°	680.4	16.9
40°-50°	721.0	17.9
50°-60°	668.5	16.6
60°-70°	519.9	12.9
70°-80°	292.1	7.3
80°-90°	89.7	2.2
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°	1052.7	26.2
0°-40°	1733.1	43.1
0°-60°	3122.6	77.6
0°-90°	4024.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4024.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1350	1350	1350	1350	1350	
5°	1345	1340	1345	1342	1336	127
15°	1296	1297	1301	1301	1296	366
25°	1214	1214	1210	1206	1216	561
35°	1103	1096	1088	1081	1081	687
45°	954	944	928	925	923	733
55°	764	760	741	737	737	686
65°	545	540	519	518	525	540
75°	304	293	275	247	231	318
85°	70	72	82	85	88	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1350.0	1350.0	1350.0	1350.0	1350.0
2.5°	1346.9	1350.0	1344.9	1346.9	1348.0
5°	1344.9	1339.8	1344.9	1341.8	1335.7
7.5°	1327.6	1332.7	1337.8	1338.8	1335.7
10°	1320.4	1330.6	1324.5	1327.6	1332.7
12.5°	1318.4	1314.3	1317.4	1312.3	1307.2
15°	1296.0	1297.0	1301.1	1301.1	1296.0
17.5°	1277.7	1285.8	1280.7	1279.7	1288.9
20°	1265.4	1263.4	1263.4	1259.3	1252.2
22.5°	1235.9	1236.9	1236.9	1234.9	1225.7
25°	1214.5	1214.5	1210.4	1206.3	1215.5
27.5°	1197.2	1188.0	1183.9	1178.8	1173.7
30°	1157.4	1155.4	1151.3	1148.3	1141.1
32.5°	1123.8	1124.8	1120.8	1114.6	1123.8
35°	1103.4	1096.3	1088.1	1081.0	1081.0
37.5°	1065.7	1058.6	1048.4	1042.3	1039.2
40°	1024.0	1020.9	1011.7	1005.6	1010.7
42.5°	993.4	987.3	976.1	966.9	970.0
45°	953.7	943.5	928.2	925.1	923.1
47.5°	903.7	900.7	885.4	881.3	885.4
50°	864.0	858.9	843.6	835.5	844.6
52.5°	820.2	809.0	791.7	789.6	788.6
55°	764.1	760.1	740.7	736.6	736.6
57.5°	716.3	710.1	690.8	683.7	694.9
60°	665.3	654.1	632.7	630.7	636.8
62.5°	604.2	597.1	575.7	575.7	579.7
65°	545.1	540.0	518.6	517.6	524.7
67.5°	489.1	478.9	462.6	455.4	451.4
70°	424.9	417.7	405.5	382.1	372.9
72.5°	363.7	356.6	343.4	306.7	303.6
75°	303.6	293.4	275.1	246.6	231.3
77.5°	238.4	235.4	209.9	196.6	202.8
80°	176.3	177.3	158.9	172.2	180.3
82.5°	120.2	116.2	129.4	134.5	137.5
85°	70.3	72.3	82.5	84.6	87.6
87.5°	28.5	33.6	38.7	39.7	43.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)