

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: P393186

Luminaire Tested: **14EN-LD2-51-UNV-L82765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-56)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-51-UNV-L82765-W2A-1-U (2700K)
Description: 1X4 ENCOUNTER, 5100 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4616.5 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

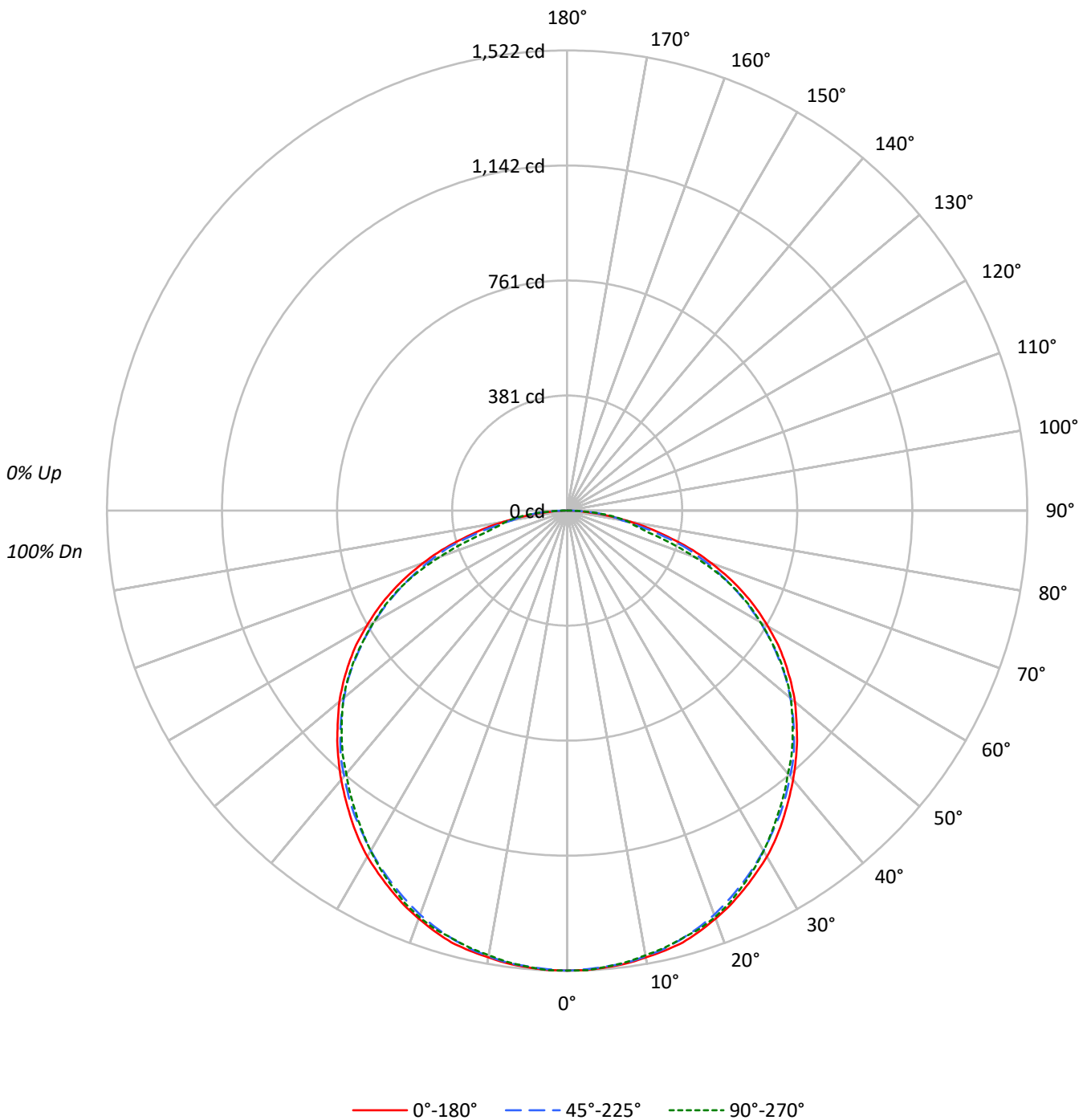
Input Watts (W): 51
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4095	4095	4095
5°	4096	4088	4091
10°	4101	4091	4081
15°	4120	4085	4082
20°	4113	4074	4097
25°	4105	4051	4070
30°	4107	4037	4039
35°	4092	4032	4005
40°	4085	4030	3992
45°	4093	4038	4014
50°	4119	4035	4047
55°	4134	4010	4028
60°	4126	3965	3975
65°	4101	3882	3904
70°	3988	3774	3531
75°	3712	3476	2890
80°	3281	2872	3140
85°	2356	3084	3140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.4	3.1
10°-20°	414.8	9.0
20°-30°	631.1	13.7
30°-40°	771.0	16.7
40°-50°	821.2	17.8
50°-60°	770.1	16.7
60°-70°	611.2	13.2
70°-80°	347.9	7.5
80°-90°	104.8	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°	1190.3	25.8
0°-40°	1961.2	42.5
0°-60°	3552.5	77.0
0°-90°	4616.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4616.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1522	1522	1522	1522	1522	
5°	1516	1521	1513	1523	1514	144
15°	1479	1473	1466	1468	1465	417
25°	1383	1370	1364	1362	1371	638
35°	1246	1239	1227	1226	1219	780
45°	1076	1074	1061	1054	1055	830
55°	881	873	855	851	858	787
65°	644	631	610	614	613	635
75°	357	348	334	296	278	380
85°	76	85	100	99	102	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1521.6	1521.6	1521.6	1521.6	1521.6
2.5°	1520.7	1527.1	1518.0	1525.3	1521.6
5°	1516.2	1520.7	1513.4	1523.4	1514.4
7.5°	1510.7	1513.4	1508.0	1517.1	1506.2
10°	1500.7	1502.5	1497.1	1504.4	1493.5
12.5°	1490.7	1488.0	1484.4	1487.1	1481.6
15°	1478.9	1472.6	1466.2	1468.0	1465.3
17.5°	1458.9	1450.8	1446.2	1444.4	1451.7
20°	1436.2	1426.2	1422.6	1420.8	1430.8
22.5°	1411.7	1399.0	1394.4	1392.6	1404.4
25°	1382.6	1369.9	1364.5	1361.7	1370.8
27.5°	1352.7	1339.0	1332.7	1330.9	1337.2
30°	1321.8	1306.3	1299.1	1298.1	1300.0
32.5°	1285.4	1273.6	1262.7	1263.6	1260.0
35°	1245.5	1239.1	1227.3	1225.5	1219.1
37.5°	1203.7	1203.7	1188.2	1191.0	1179.1
40°	1162.8	1163.7	1147.3	1148.3	1136.4
42.5°	1119.2	1121.9	1108.3	1101.0	1098.3
45°	1075.6	1073.8	1061.0	1053.8	1054.7
47.5°	1028.3	1028.3	1013.8	1007.4	1010.2
50°	983.8	980.2	963.8	958.4	966.6
52.5°	933.0	928.4	912.1	905.7	913.9
55°	881.2	873.0	854.8	851.2	858.5
57.5°	827.6	816.7	796.7	794.9	798.5
60°	766.7	757.6	736.7	733.1	738.6
62.5°	707.7	694.9	674.1	674.1	679.5
65°	644.1	631.4	609.6	614.1	613.2
67.5°	576.9	564.1	545.1	546.9	536.9
70°	506.9	492.4	479.7	462.4	448.8
72.5°	436.0	420.6	416.1	376.1	362.5
75°	357.0	347.9	334.3	296.1	278.0
77.5°	287.1	278.0	253.5	224.4	228.9
80°	211.7	213.5	185.3	196.2	202.6
82.5°	139.0	143.5	149.9	158.1	159.9
85°	76.3	85.4	99.9	99.0	101.7
87.5°	30.0	40.0	43.6	45.4	42.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)