

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: P393162

Luminaire Tested: **14EN-LD2-47-UNV-L83050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393162
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-55)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-47-UNV-L83050-W2A-1-U (2700K)
Description: 1X4 ENCOUNTER, 4700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4551.9 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

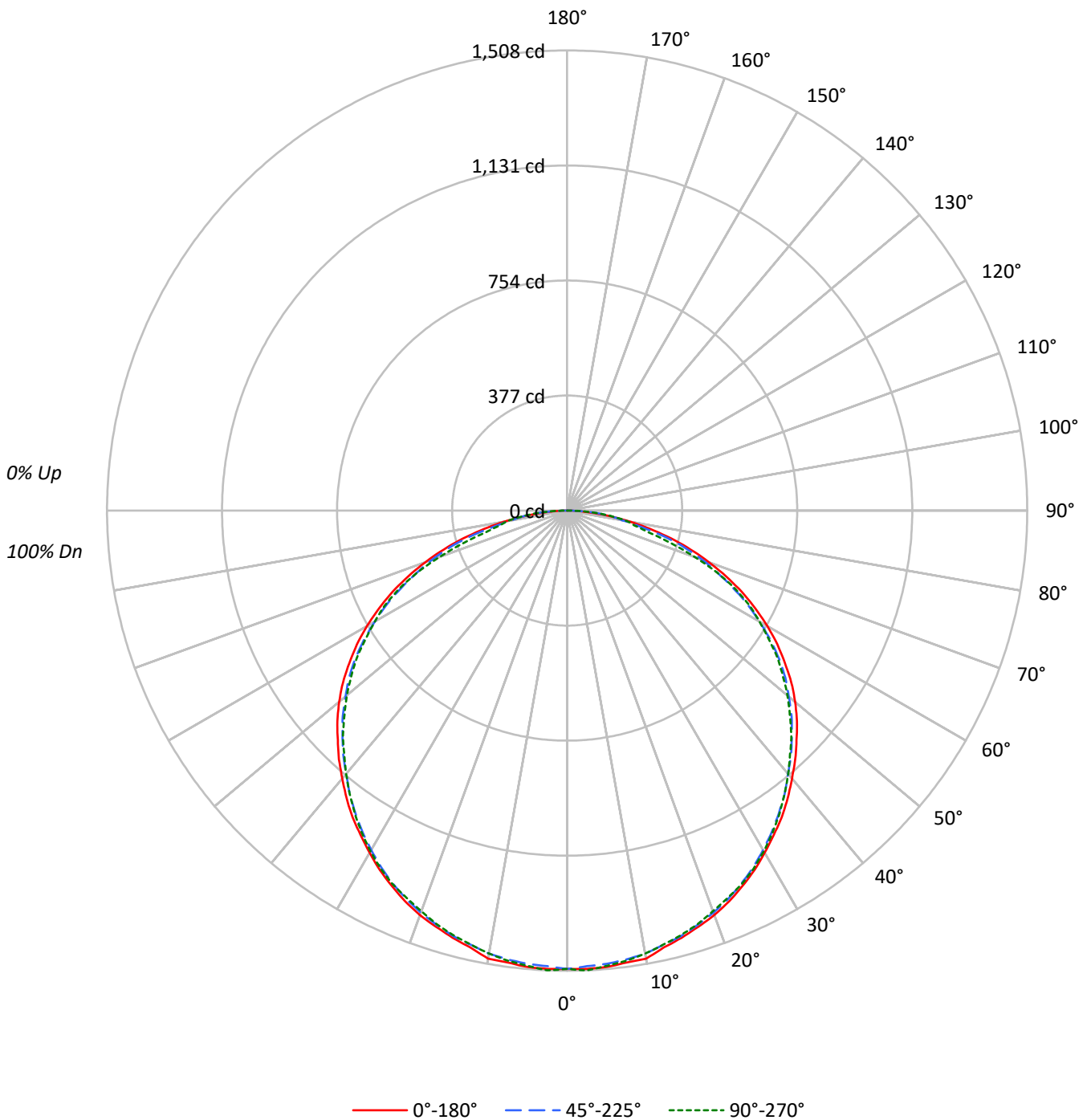
Input Watts (W): 46.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	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	34	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°	4042	4042	4042
5°	4055	4027	4045
10°	4073	4028	4028
15°	4037	4021	4013
20°	4040	4015	4001
25°	4034	4008	4013
30°	4023	3990	4005
35°	4028	3975	3984
40°	4026	3955	3959
45°	4046	3962	3954
50°	4083	3970	3946
55°	4087	3979	3947
60°	4076	3915	3915
65°	4024	3821	3876
70°	3887	3712	3507
75°	3662	3431	2879
80°	3245	2841	3081
85°	2384	3069	3069



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.2	3.1
10°-20°	408.0	9.0
20°-30°	623.6	13.7
30°-40°	760.2	16.7
40°-50°	807.8	17.7
50°-60°	760.0	16.7
60°-70°	603.3	13.3
70°-80°	343.1	7.5
80°-90°	103.6	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°	1173.9	25.8
0°-40°	1934.1	42.5
0°-60°	3501.9	76.9
0°-90°	4551.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4551.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1502	1502	1502	1502	1502	
5°	1501	1499	1491	1493	1497	143
15°	1449	1448	1443	1441	1440	410
25°	1358	1356	1350	1353	1352	626
35°	1226	1224	1210	1207	1213	767
45°	1063	1056	1041	1038	1039	822
55°	871	863	848	842	841	779
65°	632	622	600	608	609	623
75°	352	344	330	291	277	371
85°	77	84	99	97	99	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1502.2	1502.2	1502.2	1502.2	1502.2
2.5°	1503.2	1504.2	1494.5	1500.3	1508.0
5°	1501.3	1499.3	1490.7	1492.6	1497.4
7.5°	1493.5	1491.6	1483.9	1483.9	1487.8
10°	1490.7	1481.0	1474.2	1472.3	1474.2
12.5°	1466.5	1466.5	1457.8	1458.8	1456.9
15°	1449.2	1448.2	1443.4	1441.4	1440.5
17.5°	1429.9	1427.9	1423.1	1427.0	1421.2
20°	1410.6	1407.7	1401.9	1404.8	1397.1
22.5°	1386.4	1381.6	1377.8	1382.6	1373.9
25°	1358.5	1355.6	1349.8	1352.7	1351.7
27.5°	1328.6	1326.6	1318.9	1318.9	1322.8
30°	1294.8	1293.8	1284.2	1285.1	1289.0
32.5°	1260.1	1258.1	1248.5	1245.6	1252.3
35°	1226.3	1224.4	1209.9	1207.0	1212.8
37.5°	1187.7	1184.8	1170.3	1165.5	1170.3
40°	1146.2	1144.3	1125.9	1122.1	1126.9
42.5°	1106.7	1099.9	1086.4	1080.6	1081.6
45°	1063.2	1055.5	1041.0	1038.1	1039.1
47.5°	1021.7	1011.1	997.6	994.7	989.9
50°	975.4	962.9	948.4	944.6	942.6
52.5°	926.2	912.7	901.1	893.4	891.5
55°	871.2	862.6	848.1	842.3	841.3
57.5°	817.2	806.6	790.2	784.4	783.4
60°	757.4	750.6	727.5	726.5	727.5
62.5°	695.6	686.0	666.7	668.6	674.4
65°	632.0	622.3	600.1	607.8	608.8
67.5°	563.5	555.7	533.5	538.4	532.6
70°	494.0	488.2	471.8	460.2	445.7
72.5°	424.5	415.8	405.2	371.5	358.9
75°	352.2	344.4	330.0	291.4	276.9
77.5°	277.9	275.9	248.9	222.9	225.8
80°	209.4	211.3	183.3	193.0	198.8
82.5°	138.9	139.9	147.6	156.3	152.4
85°	77.2	83.9	99.4	97.4	99.4
87.5°	28.0	42.5	43.4	46.3	45.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)