

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: P393384

Luminaire Tested: **22EN-LD2-43-UNV-L82765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393384
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-43-UNV-L82765-W2A-1-U (5700K)
Description: 2X2 ENCOUNTER, 4300 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4141.5 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

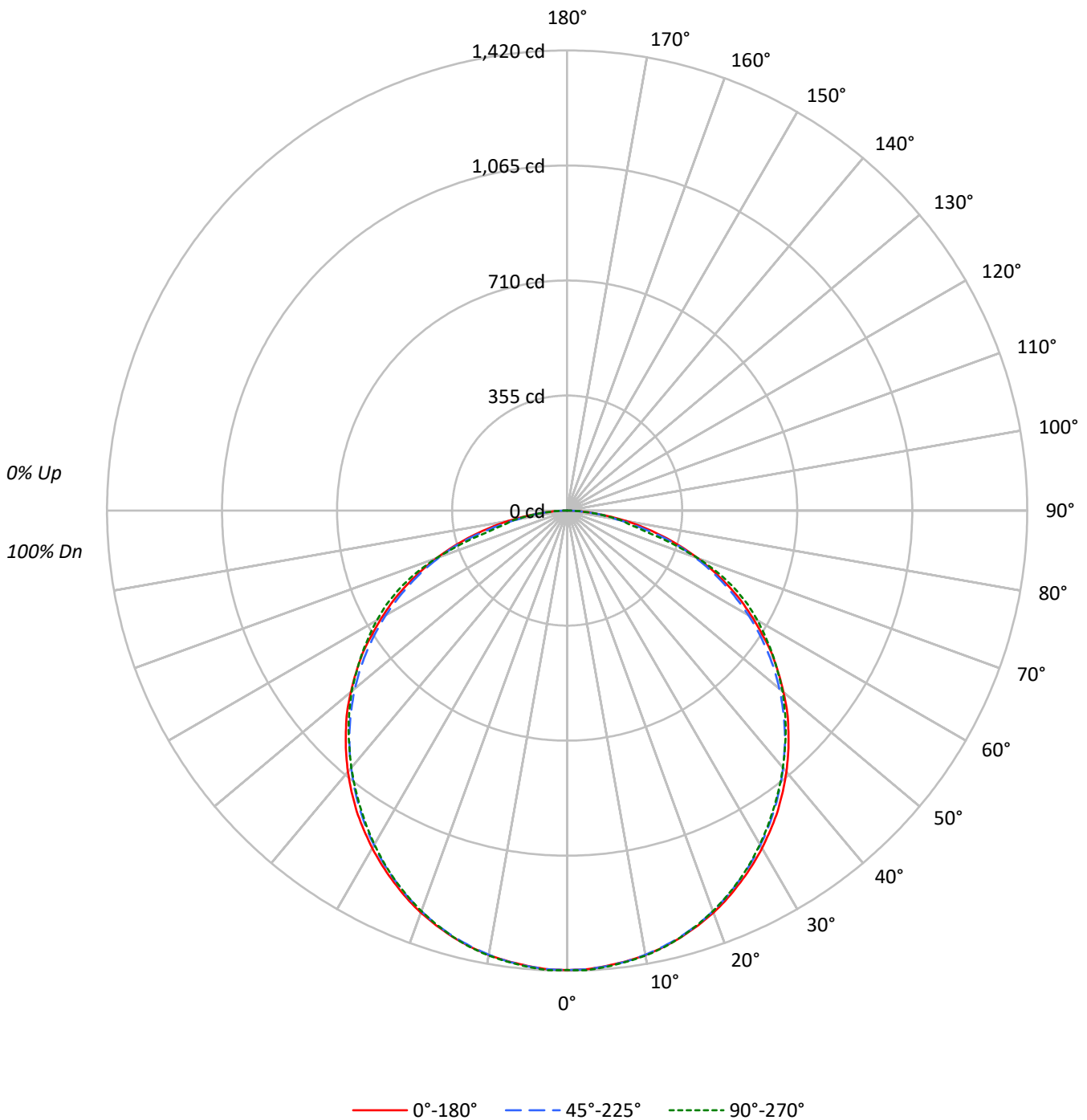
Input Watts (W): 32.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393384

CATALOG NUMBER: 22EN-LD2-43-UNV-L82765-W2A-1-U (5700K)

Luminous Intensity Polar Plot





TEST NUMBER: P393384

CATALOG NUMBER: 22EN-LD2-43-UNV-L82765-W2A-1-U (5700K)

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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	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	40	51	45	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3815	3815	3815
5°	3809	3811	3817
10°	3806	3803	3811
15°	3797	3789	3794
20°	3781	3767	3767
25°	3757	3737	3735
30°	3737	3704	3696
35°	3720	3673	3660
40°	3697	3643	3640
45°	3675	3613	3631
50°	3648	3579	3631
55°	3622	3536	3631
60°	3553	3481	3652
65°	3492	3400	3639
70°	3367	3291	3375
75°	3176	3006	2616
80°	2853	2390	2569
85°	2112	2174	2084



TEST NUMBER: P393384

CATALOG NUMBER: 22EN-LD2-43-UNV-L82765-W2A-1-U (5700K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.1	3.2
10°-20°	383.9	9.3
20°-30°	580.7	14.0
30°-40°	701.2	16.9
40°-50°	736.1	17.8
50°-60°	681.6	16.5
60°-70°	539.4	13.0
70°-80°	303.3	7.3
80°-90°	81.2	2.0
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°	1098.7	26.5
0°-40°	1799.9	43.5
0°-60°	3217.6	77.7
0°-90°	4141.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4141.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1418	1418	1418	1418	1418	
5°	1410	1409	1411	1411	1413	134
15°	1363	1361	1360	1360	1362	385
25°	1266	1264	1259	1257	1258	584
35°	1132	1128	1118	1112	1114	708
45°	966	961	949	946	954	745
55°	772	764	754	760	774	688
65°	548	542	534	554	572	541
75°	306	301	289	264	252	322
85°	68	66	70	66	68	85
90°	0	0	0	0	0	



TEST NUMBER: P393384

CATALOG NUMBER: 22EN-LD2-43-UNV-L82765-W2A-1-U (5700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1417.8	1417.8	1417.8	1417.8	1417.8
2.5°	1416.8	1415.8	1416.8	1416.8	1419.7
5°	1410.1	1409.1	1411.0	1411.0	1413.0
7.5°	1402.4	1401.4	1403.3	1403.3	1404.3
10°	1392.7	1390.8	1391.8	1392.7	1394.6
12.5°	1379.2	1377.3	1377.3	1378.3	1380.2
15°	1362.8	1360.9	1359.9	1359.9	1361.9
17.5°	1342.6	1339.7	1339.7	1337.8	1339.7
20°	1320.4	1317.5	1315.6	1313.7	1315.6
22.5°	1294.4	1291.5	1288.6	1286.7	1287.7
25°	1265.5	1263.6	1258.7	1256.8	1257.8
27.5°	1235.6	1232.7	1226.9	1223.1	1225.0
30°	1202.8	1199.0	1192.2	1187.4	1189.4
32.5°	1168.1	1164.3	1156.6	1150.8	1152.7
35°	1132.5	1127.7	1118.0	1112.2	1114.2
37.5°	1093.0	1089.1	1078.5	1072.7	1075.6
40°	1052.5	1048.6	1037.1	1032.2	1036.1
42.5°	1010.1	1006.2	993.7	988.9	994.7
45°	965.7	960.9	949.4	946.5	954.2
47.5°	921.4	914.7	903.1	901.2	910.8
50°	871.3	866.5	854.9	855.9	867.4
52.5°	821.2	817.3	805.8	809.6	820.2
55°	772.0	764.3	753.7	760.5	773.9
57.5°	715.2	710.3	700.7	711.3	725.8
60°	660.2	656.4	646.7	660.2	678.5
62.5°	606.2	598.5	589.9	609.1	628.4
65°	548.4	541.7	534.0	554.2	571.5
67.5°	488.7	481.9	476.1	494.4	507.0
70°	427.9	422.2	418.3	424.1	428.9
72.5°	367.2	361.4	358.5	345.0	341.2
75°	305.5	300.7	289.1	264.1	251.6
77.5°	243.8	238.1	218.8	194.7	195.7
80°	184.1	177.3	154.2	161.0	165.8
82.5°	125.3	120.5	115.7	113.7	114.7
85°	68.4	66.5	70.4	66.5	67.5
87.5°	28.0	28.9	30.8	29.9	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)