

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: P393206

Luminaire Tested: **14EN-LD2-51-UNV-L92765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393206
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-L92765-W2A-1-U (4500K)
Description: 1X4 ENCOUNTER, 5100 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4174.6 lumens
Efficiency: N/A
Efficacy: 82.0 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

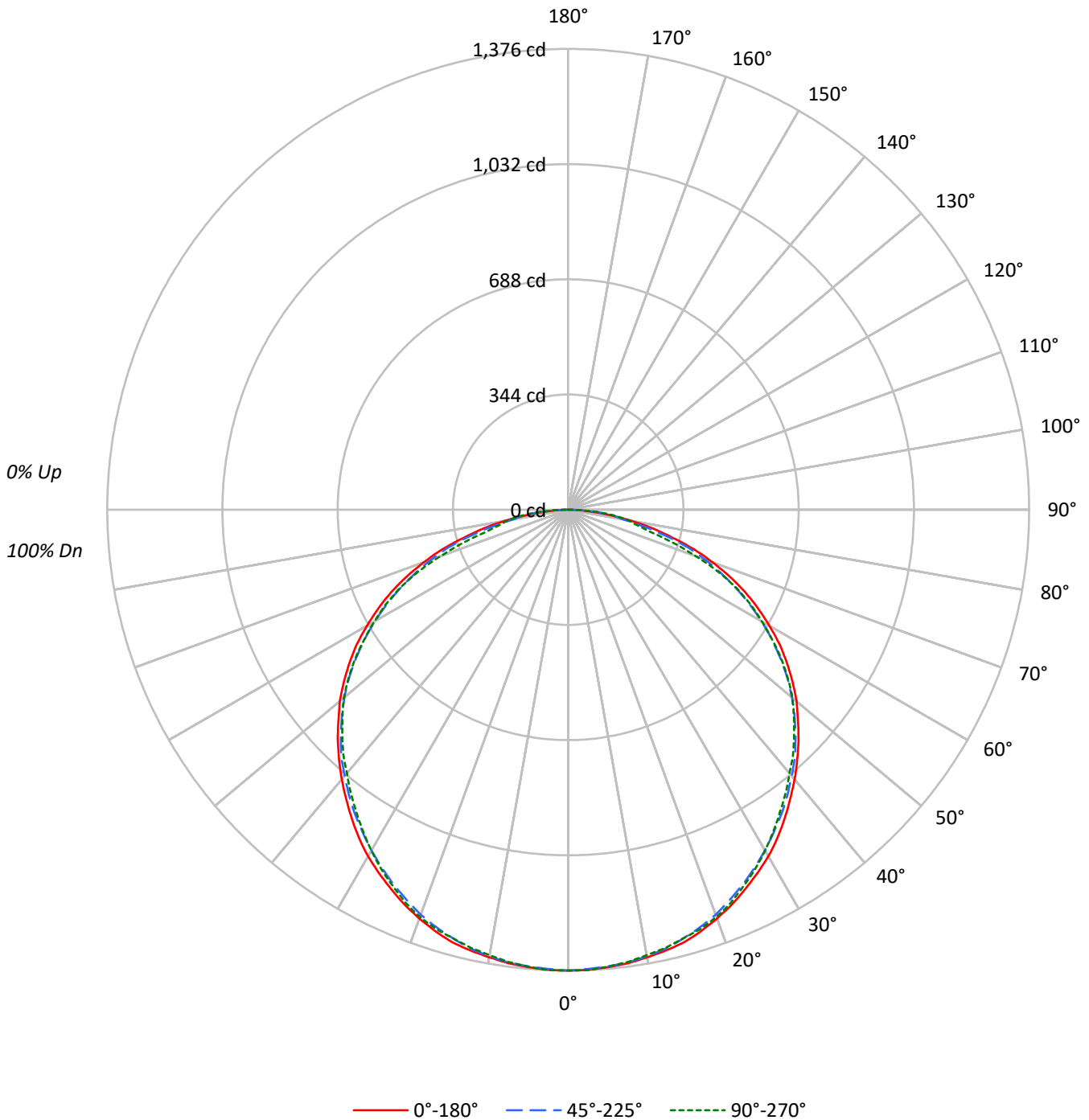
Input Watts (W): 50.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393206

CATALOG NUMBER: 14EN-LD2-51-UNV-L92765-W2A-1-U (4500K)

Luminous Intensity Polar Plot





TEST NUMBER: P393206

CATALOG NUMBER: 14EN-LD2-51-UNV-L92765-W2A-1-U (4500K)

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°	3703	3703	3703
5°	3704	3697	3699
10°	3708	3699	3690
15°	3726	3694	3692
20°	3719	3684	3705
25°	3712	3664	3681
30°	3714	3650	3653
35°	3700	3646	3621
40°	3694	3645	3610
45°	3701	3651	3630
50°	3725	3649	3659
55°	3738	3627	3642
60°	3731	3585	3595
65°	3708	3510	3531
70°	3607	3412	3193
75°	3356	3143	2614
80°	2966	2597	2839
85°	2130	2791	2841



TEST NUMBER: P393206

CATALOG NUMBER: 14EN-LD2-51-UNV-L92765-W2A-1-U (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	3.1
10°-20°	375.1	9.0
20°-30°	570.7	13.7
30°-40°	697.2	16.7
40°-50°	742.6	17.8
50°-60°	696.4	16.7
60°-70°	552.7	13.2
70°-80°	314.6	7.5
80°-90°	94.8	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°	1076.4	25.8
0°-40°	1773.5	42.5
0°-60°	3212.5	77.0
0°-90°	4174.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4174.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1376	1376	1376	1376	1376	
5°	1371	1375	1369	1378	1369	130
15°	1337	1332	1326	1328	1325	377
25°	1250	1239	1234	1231	1240	577
35°	1126	1120	1110	1108	1102	705
45°	973	971	960	953	954	750
55°	797	790	773	770	776	712
65°	582	571	551	555	554	574
75°	323	315	302	268	251	343
85°	69	77	90	90	92	86
90°	0	0	0	0	0	



TEST NUMBER: P393206

CATALOG NUMBER: 14EN-LD2-51-UNV-L92765-W2A-1-U (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1376.0	1376.0	1376.0	1376.0	1376.0
2.5°	1375.2	1380.9	1372.7	1379.3	1376.0
5°	1371.1	1375.2	1368.6	1377.6	1369.4
7.5°	1366.1	1368.6	1363.7	1371.9	1362.0
10°	1357.1	1358.7	1353.8	1360.4	1350.5
12.5°	1348.1	1345.6	1342.3	1344.8	1339.9
15°	1337.4	1331.6	1325.9	1327.5	1325.1
17.5°	1319.3	1311.9	1307.8	1306.2	1312.7
20°	1298.8	1289.7	1286.5	1284.8	1293.8
22.5°	1276.6	1265.1	1261.0	1259.3	1270.0
25°	1250.3	1238.8	1233.9	1231.4	1239.6
27.5°	1223.2	1210.9	1205.1	1203.5	1209.2
30°	1195.3	1181.3	1174.7	1173.9	1175.6
32.5°	1162.4	1151.7	1141.9	1142.7	1139.4
35°	1126.3	1120.5	1109.8	1108.2	1102.4
37.5°	1088.5	1088.5	1074.5	1077.0	1066.3
40°	1051.5	1052.3	1037.5	1038.4	1027.7
42.5°	1012.1	1014.5	1002.2	995.6	993.2
45°	972.6	971.0	959.5	952.9	953.8
47.5°	929.9	929.9	916.8	911.0	913.5
50°	889.7	886.4	871.6	866.7	874.1
52.5°	843.7	839.6	824.8	819.0	826.4
55°	796.8	789.5	773.0	769.7	776.3
57.5°	748.4	738.5	720.4	718.8	722.1
60°	693.3	685.1	666.2	662.9	667.9
62.5°	639.9	628.4	609.5	609.5	614.5
65°	582.4	570.9	551.2	555.3	554.5
67.5°	521.6	510.1	492.9	494.5	485.5
70°	458.4	445.2	433.7	418.1	405.8
72.5°	394.3	380.4	376.2	340.1	327.8
75°	322.8	314.6	302.3	267.8	251.4
77.5°	259.6	251.4	229.2	202.9	207.0
80°	191.4	193.1	167.6	177.4	183.2
82.5°	125.7	129.8	135.5	142.9	144.6
85°	69.0	77.2	90.4	89.5	92.0
87.5°	27.1	36.1	39.4	41.1	38.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)