

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: P393211

Luminaire Tested: **14EN-LD2-51-UNV-L93050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393211  
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-L93050-W2A-1-U (3000K)  
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: 4176.0 lumens  
Efficiency: N/A  
Efficacy: 81.7 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

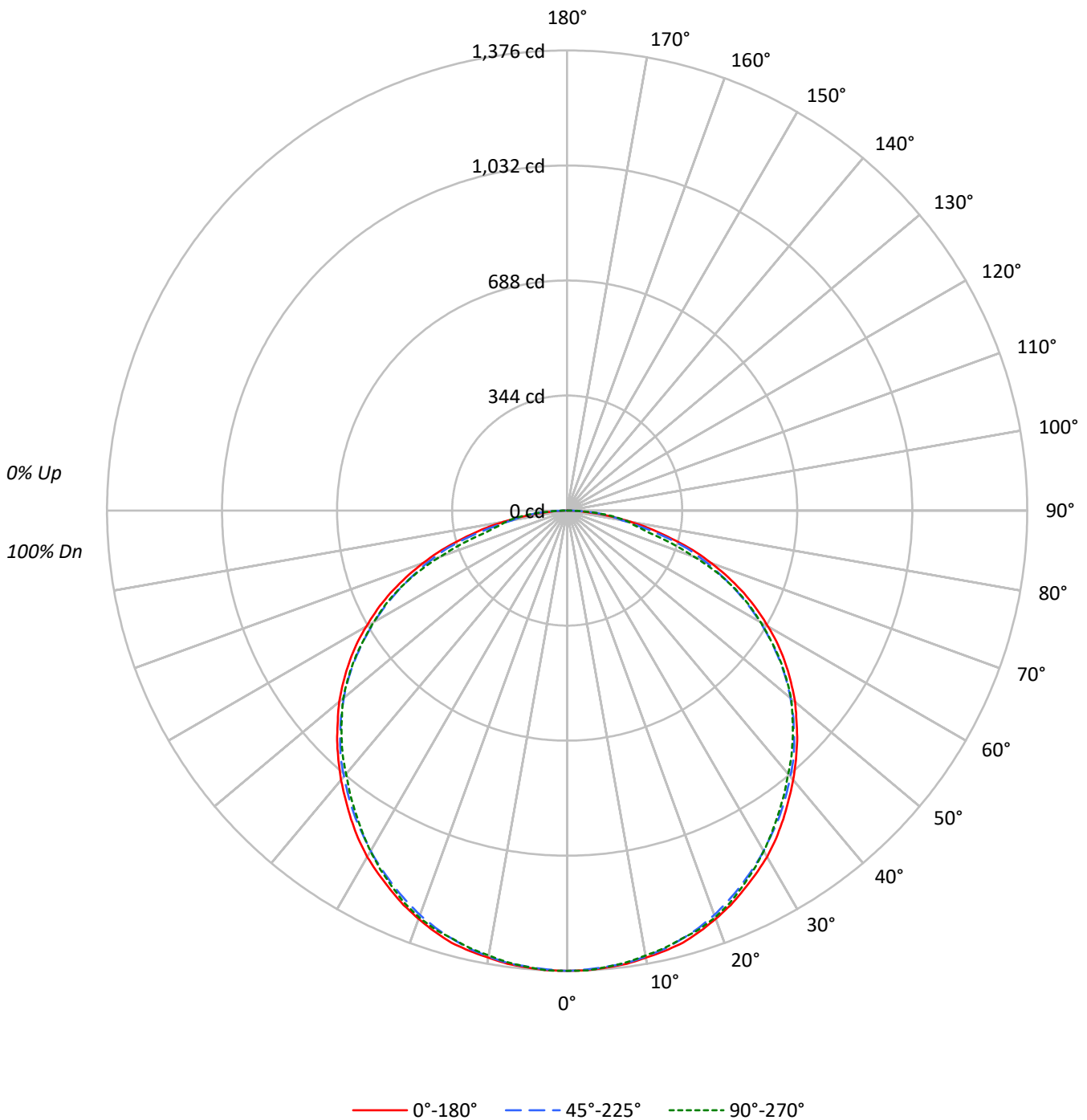
Input Watts (W): 51.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P393211

CATALOG NUMBER: 14EN-LD2-51-UNV-L93050-W2A-1-U (3000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P393211

CATALOG NUMBER: 14EN-LD2-51-UNV-L93050-W2A-1-U (3000K)

**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°	3704	3704	3704
5°	3705	3698	3700
10°	3709	3700	3691
15°	3727	3695	3693
20°	3720	3685	3706
25°	3714	3665	3682
30°	3715	3651	3654
35°	3701	3647	3623
40°	3695	3646	3611
45°	3702	3653	3631
50°	3725	3650	3660
55°	3740	3628	3643
60°	3733	3587	3596
65°	3710	3511	3532
70°	3607	3414	3194
75°	3357	3144	2615
80°	2968	2597	2839
85°	2130	2791	2841



TEST NUMBER: P393211

CATALOG NUMBER: 14EN-LD2-51-UNV-L93050-W2A-1-U (3000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.6	3.1
10°-20°	375.2	9.0
20°-30°	570.9	13.7
30°-40°	697.4	16.7
40°-50°	742.8	17.8
50°-60°	696.6	16.7
60°-70°	552.9	13.2
70°-80°	314.7	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°	1076.7	25.8
0°-40°	1774.1	42.5
0°-60°	3213.5	77.0
0°-90°	4176.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4176.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1376	1376	1376	1376	1376	
5°	1372	1376	1369	1378	1370	131
15°	1338	1332	1326	1328	1326	377
25°	1251	1239	1234	1232	1240	577
35°	1127	1121	1110	1108	1103	705
45°	973	971	960	953	954	751
55°	797	790	773	770	776	712
65°	583	571	551	556	555	574
75°	323	315	302	268	252	343
85°	69	77	90	90	92	86
90°	0	0	0	0	0	



TEST NUMBER: P393211

CATALOG NUMBER: 14EN-LD2-51-UNV-L93050-W2A-1-U (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1376.4	1376.4	1376.4	1376.4	1376.4
2.5°	1375.6	1381.4	1373.1	1379.7	1376.4
5°	1371.5	1375.6	1369.0	1378.1	1369.8
7.5°	1366.6	1369.0	1364.1	1372.3	1362.5
10°	1357.5	1359.2	1354.2	1360.8	1350.9
12.5°	1348.5	1346.0	1342.7	1345.2	1340.3
15°	1337.8	1332.0	1326.3	1327.9	1325.5
17.5°	1319.7	1312.3	1308.2	1306.6	1313.1
20°	1299.2	1290.1	1286.9	1285.2	1294.2
22.5°	1277.0	1265.5	1261.4	1259.7	1270.4
25°	1250.7	1239.2	1234.3	1231.8	1240.0
27.5°	1223.6	1211.2	1205.5	1203.9	1209.6
30°	1195.6	1181.7	1175.1	1174.3	1175.9
32.5°	1162.8	1152.1	1142.2	1143.0	1139.8
35°	1126.6	1120.9	1110.2	1108.5	1102.8
37.5°	1088.8	1088.8	1074.8	1077.3	1066.6
40°	1051.8	1052.7	1037.9	1038.7	1028.0
42.5°	1012.4	1014.9	1002.5	996.0	993.5
45°	972.9	971.3	959.8	953.2	954.0
47.5°	930.2	930.2	917.1	911.3	913.8
50°	889.9	886.7	871.9	866.9	874.3
52.5°	843.9	839.8	825.0	819.3	826.7
55°	797.1	789.7	773.3	770.0	776.5
57.5°	748.6	738.7	720.7	719.0	722.3
60°	693.6	685.3	666.4	663.1	668.1
62.5°	640.1	628.6	609.7	609.7	614.7
65°	582.6	571.1	551.4	555.5	554.7
67.5°	521.8	510.3	493.0	494.7	485.7
70°	458.5	445.4	433.9	418.3	405.9
72.5°	394.4	380.5	376.4	340.2	327.9
75°	322.9	314.7	302.4	267.9	251.5
77.5°	259.7	251.5	229.3	203.0	207.1
80°	191.5	193.1	167.6	177.5	183.2
82.5°	125.7	129.8	135.6	143.0	144.6
85°	69.0	77.2	90.4	89.6	92.0
87.5°	27.1	36.2	39.4	41.1	38.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)