

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: P393020

Luminaire Tested: **14EN-LD2-25-UNV-L93050-W2A-1-U (3500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393020  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-50)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14EN-LD2-25-UNV-L93050-W2A-1-U (3500K)  
Description: 1X4 ENCOUNTER, 2500 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2151.0 lumens  
Efficiency: N/A  
Efficacy: 82.1 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

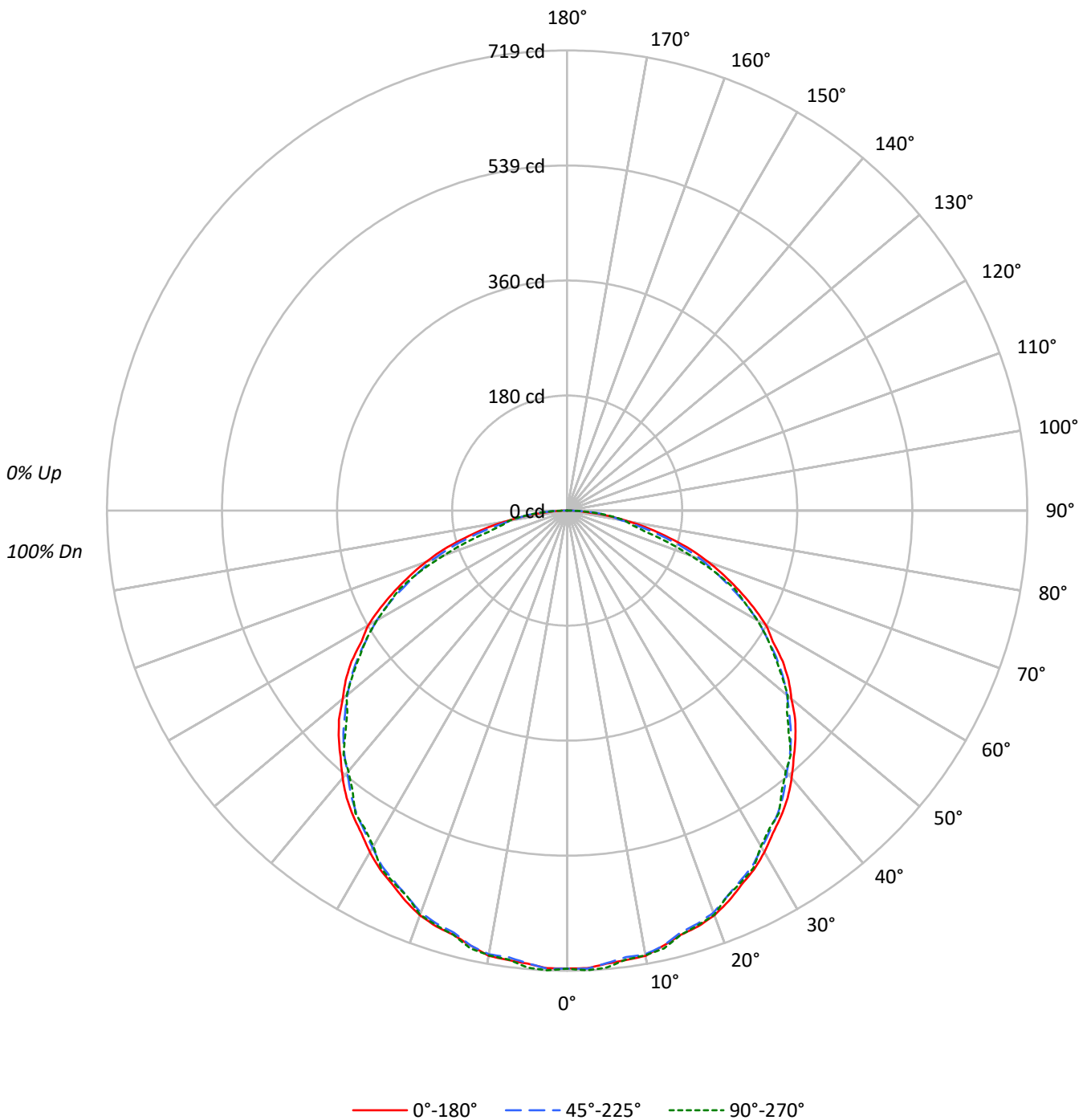
Input Watts (W): 26.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P393020

CATALOG NUMBER: 14EN-LD2-25-UNV-L93050-W2A-1-U (3500K)

### Luminous Intensity Polar Plot





TEST NUMBER: P393020

CATALOG NUMBER: 14EN-LD2-25-UNV-L93050-W2A-1-U (3500K)

**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	61	68	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
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°	1926	1926	1926
5°	1920	1917	1935
10°	1930	1923	1928
15°	1912	1902	1912
20°	1926	1914	1924
25°	1915	1898	1905
30°	1915	1889	1881
35°	1915	1890	1895
40°	1917	1876	1867
45°	1920	1882	1862
50°	1915	1876	1883
55°	1929	1870	1854
60°	1933	1851	1847
65°	1890	1783	1836
70°	1846	1753	1614
75°	1723	1582	1303
80°	1525	1316	1433
85°	1090	1479	1430



TEST NUMBER: P393020

CATALOG NUMBER: 14EN-LD2-25-UNV-L93050-W2A-1-U (3500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.7	3.1
10°-20°	194.4	9.0
20°-30°	296.0	13.8
30°-40°	360.4	16.8
40°-50°	382.6	17.8
50°-60°	358.0	16.6
60°-70°	283.1	13.2
70°-80°	159.9	7.4
80°-90°	48.9	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°	558.2	25.9
0°-40°	918.5	42.7
0°-60°	1659.2	77.1
0°-90°	2151.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2151.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	716	716	716	716	716	
5°	711	711	710	713	716	68
15°	686	689	683	690	686	195
25°	645	646	639	640	642	298
35°	583	582	575	571	577	365
45°	505	500	494	493	489	389
55°	411	405	399	395	395	366
65°	297	291	280	283	288	294
75°	166	162	152	134	125	176
85°	35	40	48	48	46	44
90°	0	0	0	0	0	



TEST NUMBER: P393020

CATALOG NUMBER: 14EN-LD2-25-UNV-L93050-W2A-1-U (3500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	715.6	715.6	715.6	715.6	715.6
2.5°	715.6	717.3	716.5	713.9	719.0
5°	710.6	710.6	709.7	713.1	716.5
7.5°	708.1	708.9	703.9	710.6	707.2
10°	706.4	708.1	703.9	703.0	705.5
12.5°	696.3	695.4	696.3	696.3	700.5
15°	686.2	688.7	682.8	689.6	686.2
17.5°	681.2	684.5	676.9	677.8	679.5
20°	672.7	669.4	668.5	666.0	671.9
22.5°	660.1	655.1	652.6	655.9	652.6
25°	645.0	645.8	639.1	639.9	641.6
27.5°	632.4	631.5	626.5	624.8	629.9
30°	616.4	611.4	608.0	608.8	605.5
32.5°	597.9	597.1	591.2	590.3	588.6
35°	582.8	581.9	575.2	571.0	576.9
37.5°	565.9	560.1	555.9	553.3	550.8
40°	545.8	542.4	534.0	532.3	531.5
42.5°	523.9	523.9	515.5	510.4	517.2
45°	504.6	500.4	494.5	492.8	489.4
47.5°	483.5	479.3	470.9	468.4	465.9
50°	457.5	457.5	448.2	444.9	449.9
52.5°	436.4	432.2	424.7	423.0	422.1
55°	411.2	405.3	398.6	395.2	395.2
57.5°	380.9	379.3	370.0	367.5	370.8
60°	359.1	352.3	343.9	341.4	343.1
62.5°	328.8	322.9	313.7	312.0	313.7
65°	296.8	291.0	280.0	283.4	288.4
67.5°	265.7	260.7	250.6	253.1	248.9
70°	234.6	229.6	222.8	213.6	205.2
72.5°	202.7	193.4	189.2	171.5	165.7
75°	165.7	161.5	152.2	134.5	125.3
77.5°	132.9	128.7	116.9	101.8	102.6
80°	98.4	101.8	84.9	90.0	92.5
82.5°	65.6	65.6	69.8	73.2	73.2
85°	35.3	39.5	47.9	47.9	46.3
87.5°	13.5	19.3	21.0	21.0	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)