

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: P393013

Luminaire Tested: **14EN-LD2-25-UNV-L92765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393013  
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-L92765-W2A-1-U (4000K)  
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: 2115.5 lumens  
Efficiency: N/A  
Efficacy: 80.7 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

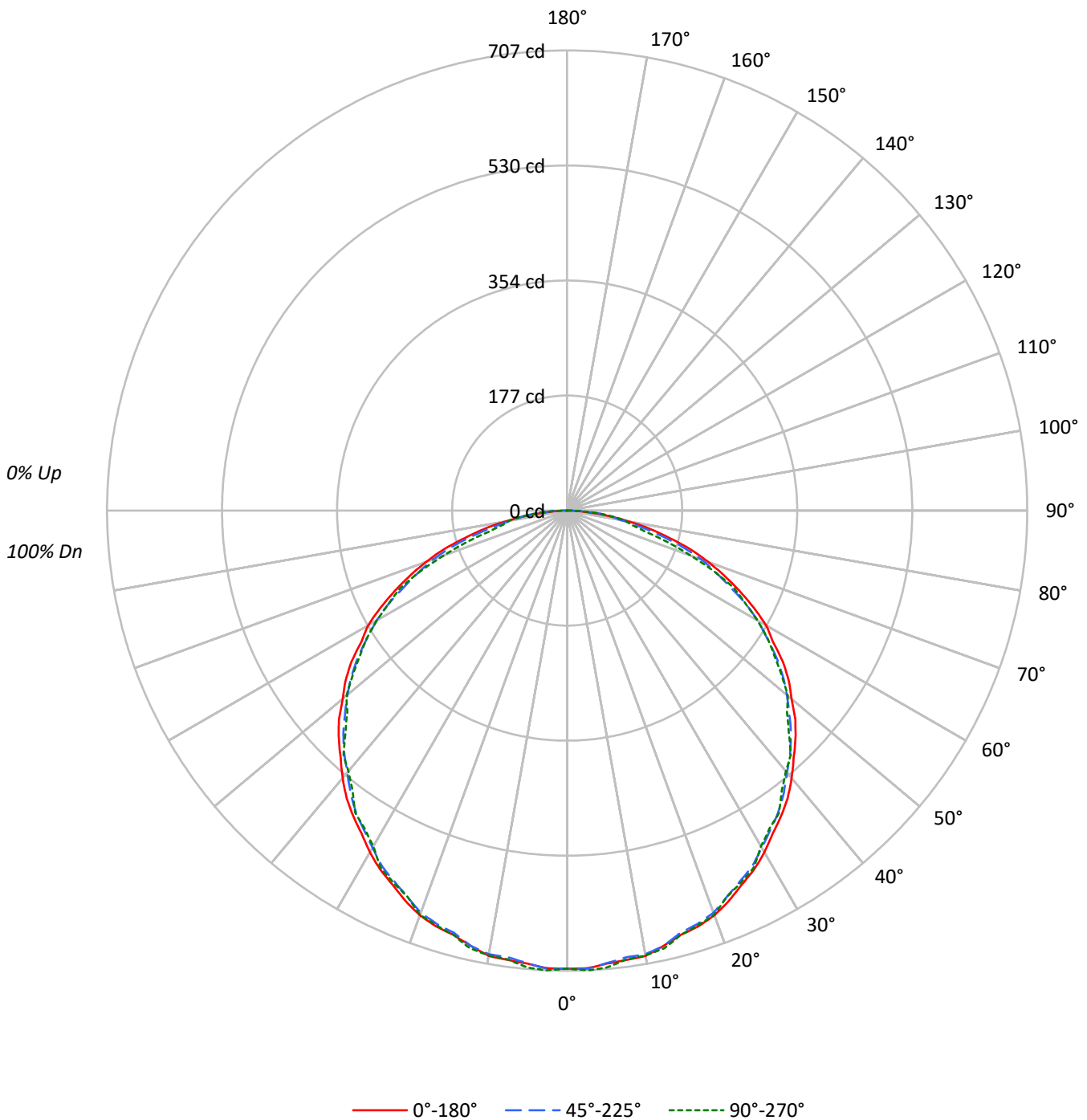
Input Watts (W): 26.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P393013

CATALOG NUMBER: 14EN-LD2-25-UNV-L92765-W2A-1-U (4000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P393013

CATALOG NUMBER: 14EN-LD2-25-UNV-L92765-W2A-1-U (4000K)

**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°	1894	1894	1894
5°	1888	1885	1903
10°	1898	1891	1896
15°	1880	1871	1880
20°	1895	1883	1892
25°	1883	1866	1874
30°	1884	1858	1850
35°	1883	1858	1864
40°	1885	1845	1836
45°	1888	1851	1832
50°	1883	1845	1852
55°	1897	1839	1824
60°	1900	1821	1816
65°	1859	1754	1806
70°	1815	1725	1588
75°	1694	1556	1281
80°	1500	1294	1410
85°	1071	1454	1405



TEST NUMBER: P393013

CATALOG NUMBER: 14EN-LD2-25-UNV-L92765-W2A-1-U (4000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.6	3.1
10°-20°	191.2	9.0
20°-30°	291.1	13.8
30°-40°	354.4	16.8
40°-50°	376.3	17.8
50°-60°	352.1	16.6
60°-70°	278.4	13.2
70°-80°	157.3	7.4
80°-90°	48.1	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°	549.0	25.9
0°-40°	903.4	42.7
0°-60°	1631.7	77.1
0°-90°	2115.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2115.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	704	704	704	704	704	
5°	699	699	698	701	705	67
15°	675	677	672	678	675	191
25°	634	635	628	629	631	293
35°	573	572	566	562	567	359
45°	496	492	486	485	481	383
55°	404	399	392	389	389	360
65°	292	286	275	279	284	289
75°	163	159	150	132	123	173
85°	35	39	47	47	46	44
90°	0	0	0	0	0	



TEST NUMBER: P393013

CATALOG NUMBER: 14EN-LD2-25-UNV-L92765-W2A-1-U (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	703.8	703.8	703.8	703.8	703.8
2.5°	703.8	705.5	704.6	702.2	707.1
5°	698.8	698.8	698.0	701.3	704.6
7.5°	696.4	697.2	692.2	698.8	695.5
10°	694.7	696.4	692.2	691.4	693.9
12.5°	684.8	684.0	684.8	684.8	688.9
15°	674.9	677.3	671.6	678.2	674.9
17.5°	669.9	673.2	665.8	666.6	668.2
20°	661.6	658.3	657.5	655.0	660.8
22.5°	649.2	644.3	641.8	645.1	641.8
25°	634.3	635.2	628.5	629.4	631.0
27.5°	621.9	621.1	616.1	614.5	619.5
30°	606.2	601.3	597.9	598.8	595.5
32.5°	588.0	587.2	581.4	580.6	578.9
35°	573.1	572.3	565.7	561.6	567.3
37.5°	556.6	550.8	546.7	544.2	541.7
40°	536.7	533.4	525.2	523.5	522.7
42.5°	515.2	515.2	507.0	502.0	508.6
45°	496.2	492.1	486.3	484.6	481.3
47.5°	475.5	471.4	463.1	460.7	458.2
50°	449.9	449.9	440.8	437.5	442.5
52.5°	429.2	425.1	417.7	416.0	415.2
55°	404.4	398.6	392.0	388.7	388.7
57.5°	374.6	373.0	363.9	361.4	364.7
60°	353.1	346.5	338.3	335.8	337.4
62.5°	323.4	317.6	308.5	306.8	308.5
65°	291.9	286.2	275.4	278.7	283.7
67.5°	261.3	256.4	246.5	248.9	244.8
70°	230.7	225.8	219.2	210.1	201.8
72.5°	199.3	190.2	186.1	168.7	162.9
75°	162.9	158.8	149.7	132.3	123.2
77.5°	130.7	126.5	115.0	100.1	100.9
80°	96.8	100.1	83.5	88.5	91.0
82.5°	64.5	64.5	68.6	72.0	72.0
85°	34.7	38.9	47.1	47.1	45.5
87.5°	13.2	19.0	20.7	20.7	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)