

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: P392994

Luminaire Tested: **14EN-LD2-25-UNV-L82765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392994  
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-L82765-W2A-1-U (2700K)  
Description: 1X4 ENCOUNTER, 2500 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2323.7 lumens  
Efficiency: N/A  
Efficacy: 88.4 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

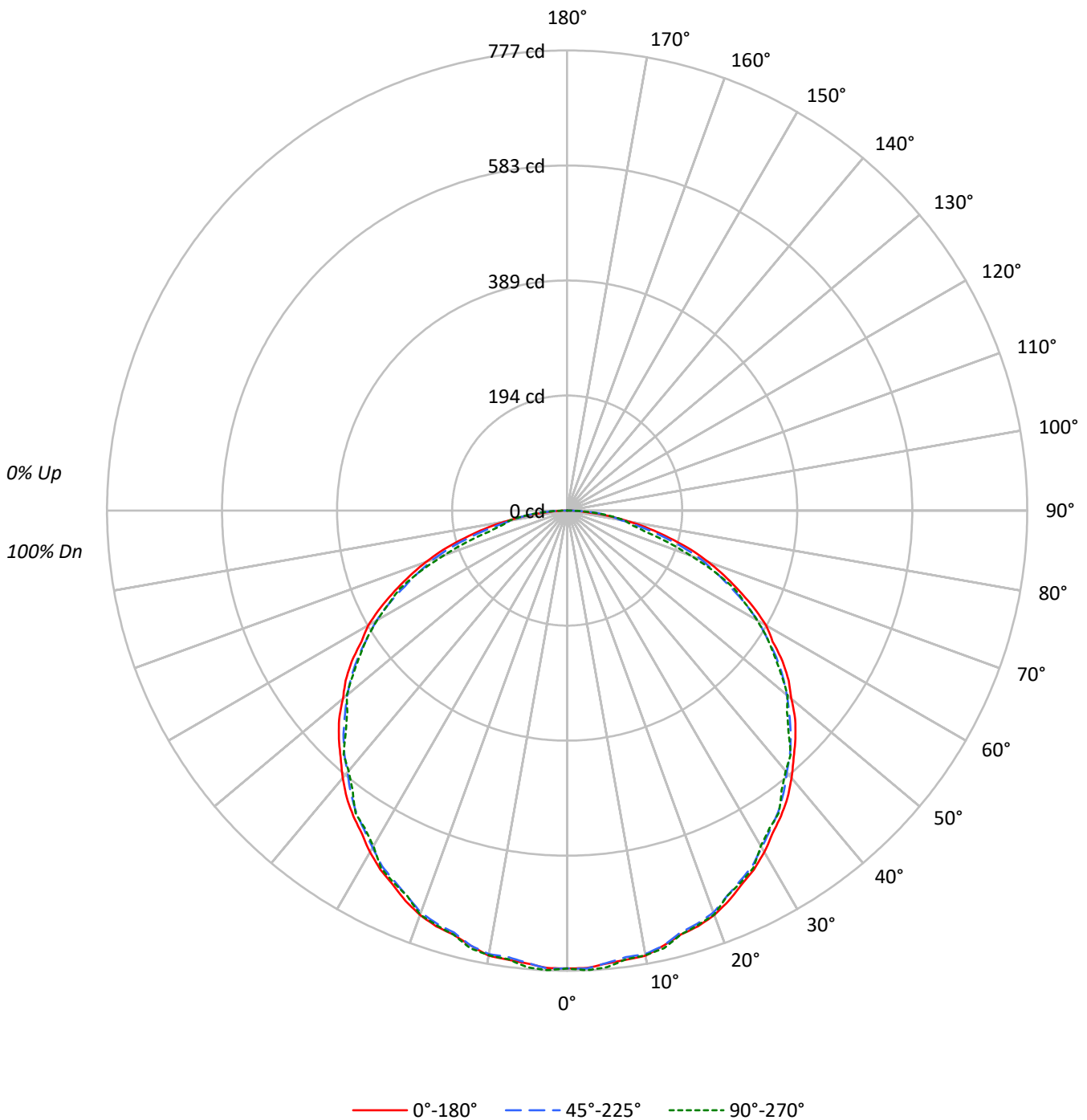
Input Watts (W): 26.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P392994

CATALOG NUMBER: 14EN-LD2-25-UNV-L82765-W2A-1-U (2700K)

### Luminous Intensity Polar Plot





TEST NUMBER: P392994

CATALOG NUMBER: 14EN-LD2-25-UNV-L82765-W2A-1-U (2700K)

**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°	2080	2080	2080
5°	2073	2071	2091
10°	2085	2078	2083
15°	2065	2055	2065
20°	2081	2068	2078
25°	2069	2050	2058
30°	2069	2041	2032
35°	2068	2041	2047
40°	2071	2027	2017
45°	2074	2033	2012
50°	2069	2027	2035
55°	2084	2020	2003
60°	2088	1999	1995
65°	2042	1926	1984
70°	1995	1894	1744
75°	1861	1709	1408
80°	1647	1423	1548
85°	1179	1599	1544



TEST NUMBER: P392994

CATALOG NUMBER: 14EN-LD2-25-UNV-L82765-W2A-1-U (2700K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.2	3.1
10°-20°	210.0	9.0
20°-30°	319.8	13.8
30°-40°	389.3	16.8
40°-50°	413.3	17.8
50°-60°	386.7	16.6
60°-70°	305.8	13.2
70°-80°	172.7	7.4
80°-90°	52.8	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°	603.0	25.9
0°-40°	992.2	42.7
0°-60°	1792.3	77.1
0°-90°	2323.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2323.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	773	773	773	773	773	
5°	768	768	767	770	774	73
15°	741	744	738	745	741	210
25°	697	698	690	691	693	322
35°	630	629	621	617	623	394
45°	545	540	534	532	529	420
55°	444	438	431	427	427	396
65°	321	314	302	306	312	318
75°	179	174	164	145	135	190
85°	38	43	52	52	50	48
90°	0	0	0	0	0	



TEST NUMBER: P392994

CATALOG NUMBER: 14EN-LD2-25-UNV-L82765-W2A-1-U (2700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	773.1	773.1	773.1	773.1	773.1
2.5°	773.1	774.9	774.0	771.3	776.7
5°	767.6	767.6	766.7	770.3	774.0
7.5°	764.9	765.8	760.4	767.6	764.0
10°	763.1	764.9	760.4	759.4	762.2
12.5°	752.2	751.3	752.2	752.2	756.7
15°	741.3	744.0	737.6	744.9	741.3
17.5°	735.8	739.5	731.3	732.2	734.0
20°	726.7	723.1	722.2	719.5	725.8
22.5°	713.1	707.7	704.9	708.6	704.9
25°	696.8	697.7	690.4	691.3	693.1
27.5°	683.1	682.2	676.8	675.0	680.4
30°	665.9	660.4	656.8	657.7	654.1
32.5°	645.9	645.0	638.6	637.7	635.9
35°	629.5	628.6	621.4	616.8	623.2
37.5°	611.4	605.0	600.5	597.7	595.0
40°	589.6	585.9	576.9	575.0	574.1
42.5°	566.0	566.0	556.9	551.4	558.7
45°	545.1	540.5	534.2	532.3	528.7
47.5°	522.3	517.8	508.7	506.0	503.3
50°	494.2	494.2	484.2	480.6	486.0
52.5°	471.5	466.9	458.8	456.9	456.0
55°	444.2	437.9	430.6	427.0	427.0
57.5°	411.5	409.7	399.7	397.0	400.6
60°	387.9	380.6	371.5	368.8	370.6
62.5°	355.2	348.8	338.8	337.0	338.8
65°	320.7	314.3	302.5	306.1	311.6
67.5°	287.1	281.6	270.7	273.4	268.9
70°	253.5	248.0	240.7	230.7	221.7
72.5°	218.9	208.9	204.4	185.3	179.0
75°	179.0	174.4	164.4	145.3	135.4
77.5°	143.5	139.0	126.3	109.9	110.8
80°	106.3	109.9	91.8	97.2	99.9
82.5°	70.9	70.9	75.4	79.0	79.0
85°	38.2	42.7	51.8	51.8	50.0
87.5°	14.5	20.9	22.7	22.7	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)