

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: P393250

Luminaire Tested: **22EN-LD2-25-UNV-L82765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393250  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22EN-LD2-25-UNV-L82765-W2A-1-U (2700K)  
Description: 2X2 ENCOUNTER, 2500 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2272.9 lumens  
Efficiency: N/A  
Efficacy: 125.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

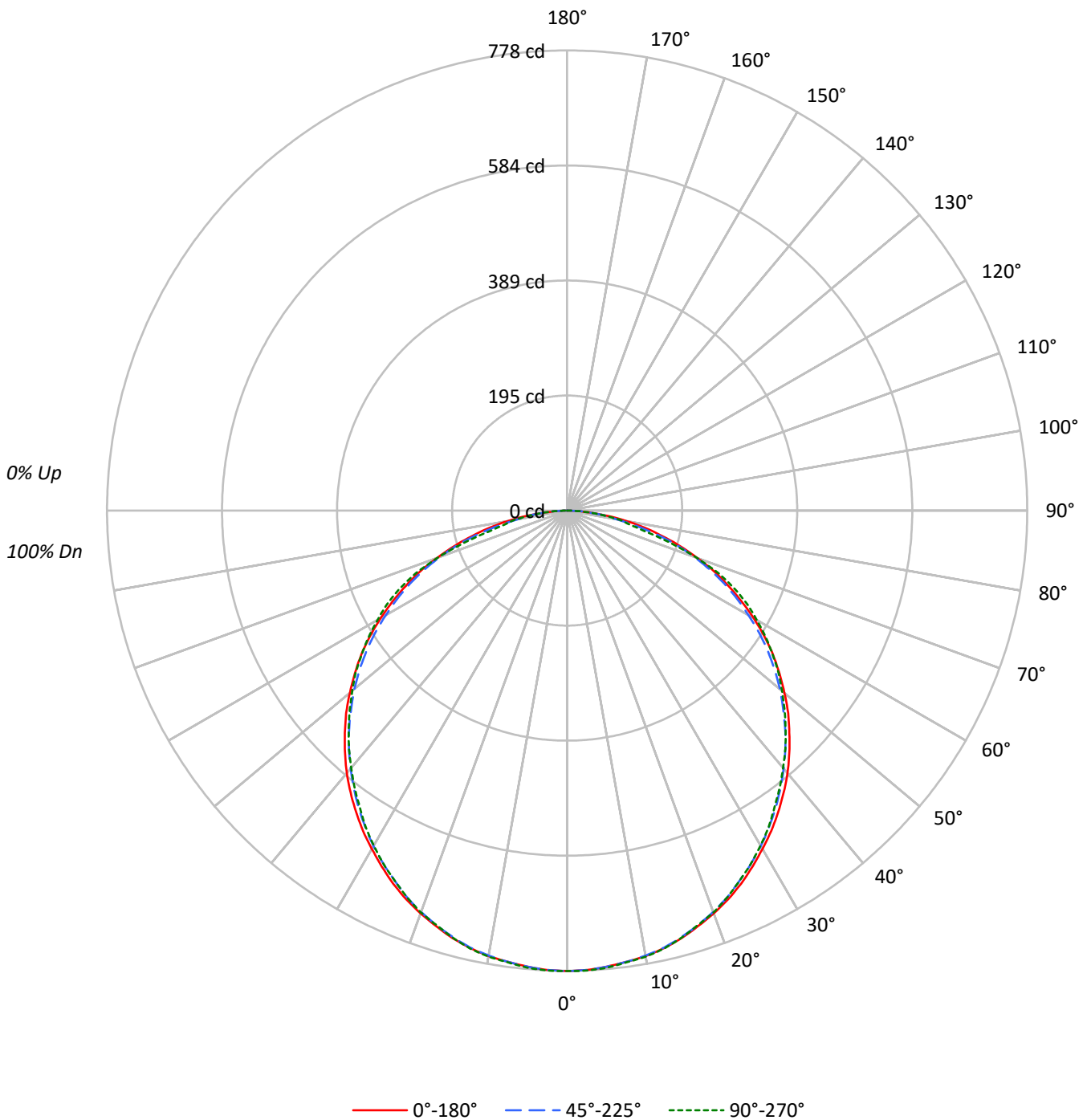
Input Watts (W): 18.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2095	2095	2095
5°	2091	2091	2096
10°	2090	2088	2093
15°	2085	2080	2083
20°	2076	2068	2071
25°	2066	2050	2050
30°	2052	2035	2032
35°	2044	2017	2008
40°	2036	2001	1995
45°	2022	1984	1988
50°	2008	1966	1985
55°	1994	1943	1990
60°	1961	1907	1995
65°	1915	1868	1990
70°	1837	1794	1830
75°	1738	1644	1426
80°	1576	1323	1407
85°	1149	1179	1149



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.6	3.2
10°-20°	210.8	9.3
20°-30°	318.8	14.0
30°-40°	385.0	16.9
40°-50°	404.1	17.8
50°-60°	374.4	16.5
60°-70°	295.6	13.0
70°-80°	165.8	7.3
80°-90°	44.8	2.0
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°	603.1	26.5
0°-40°	988.2	43.5
0°-60°	1766.7	77.7
0°-90°	2272.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2272.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	778	778	778	778	778	
5°	774	773	774	775	776	74
15°	748	747	747	747	748	211
25°	696	693	690	689	690	321
35°	622	620	614	610	611	389
45°	531	527	521	519	522	410
55°	425	421	414	418	424	379
65°	301	297	293	303	312	297
75°	167	164	158	143	137	177
85°	37	37	38	37	37	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	778.5	778.5	778.5	778.5	778.5
2.5°	777.6	776.7	777.6	777.6	778.5
5°	774.0	773.1	774.0	774.9	775.8
7.5°	769.4	768.5	769.4	770.3	770.3
10°	764.9	763.1	764.0	764.9	765.8
12.5°	757.6	756.7	756.7	756.7	758.5
15°	748.5	746.7	746.7	746.7	747.6
17.5°	736.7	735.8	734.9	734.9	734.9
20°	724.9	723.1	722.2	721.3	723.1
22.5°	711.3	709.5	707.7	705.9	707.7
25°	695.9	693.1	690.4	688.6	690.4
27.5°	678.6	676.8	673.1	670.4	673.1
30°	660.4	657.7	655.0	652.3	654.1
32.5°	642.3	639.5	635.0	631.4	634.1
35°	622.3	619.5	614.1	610.5	611.4
37.5°	601.4	597.7	592.3	588.7	590.5
40°	579.6	575.9	569.6	565.0	567.8
42.5°	556.0	552.3	546.0	543.2	546.0
45°	531.4	526.9	521.4	518.7	522.3
47.5°	506.9	503.3	495.1	495.1	498.7
50°	479.7	476.0	469.7	469.7	474.2
52.5°	452.4	447.9	442.4	444.2	450.6
55°	425.1	420.6	414.2	417.9	424.2
57.5°	395.2	391.5	385.2	390.6	397.9
60°	364.3	359.7	354.3	361.6	370.6
62.5°	332.5	328.9	324.3	333.4	343.4
65°	300.7	297.1	293.4	303.4	312.5
67.5°	269.8	265.3	261.6	270.7	277.1
70°	233.5	230.7	228.0	229.8	232.6
72.5°	200.8	198.0	195.3	188.0	185.3
75°	167.2	164.4	158.1	142.6	137.2
77.5°	134.4	131.7	119.9	106.3	107.2
80°	101.7	99.0	85.4	88.1	90.8
82.5°	69.9	66.3	63.6	62.7	62.7
85°	37.2	37.2	38.2	37.2	37.2
87.5°	15.4	16.4	16.4	16.4	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)