

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: P393256

Luminaire Tested: **22EN-LD2-25-UNV-L82765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393256  
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 (5700K)  
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: 2411.5 lumens  
Efficiency: N/A  
Efficacy: 134.7 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

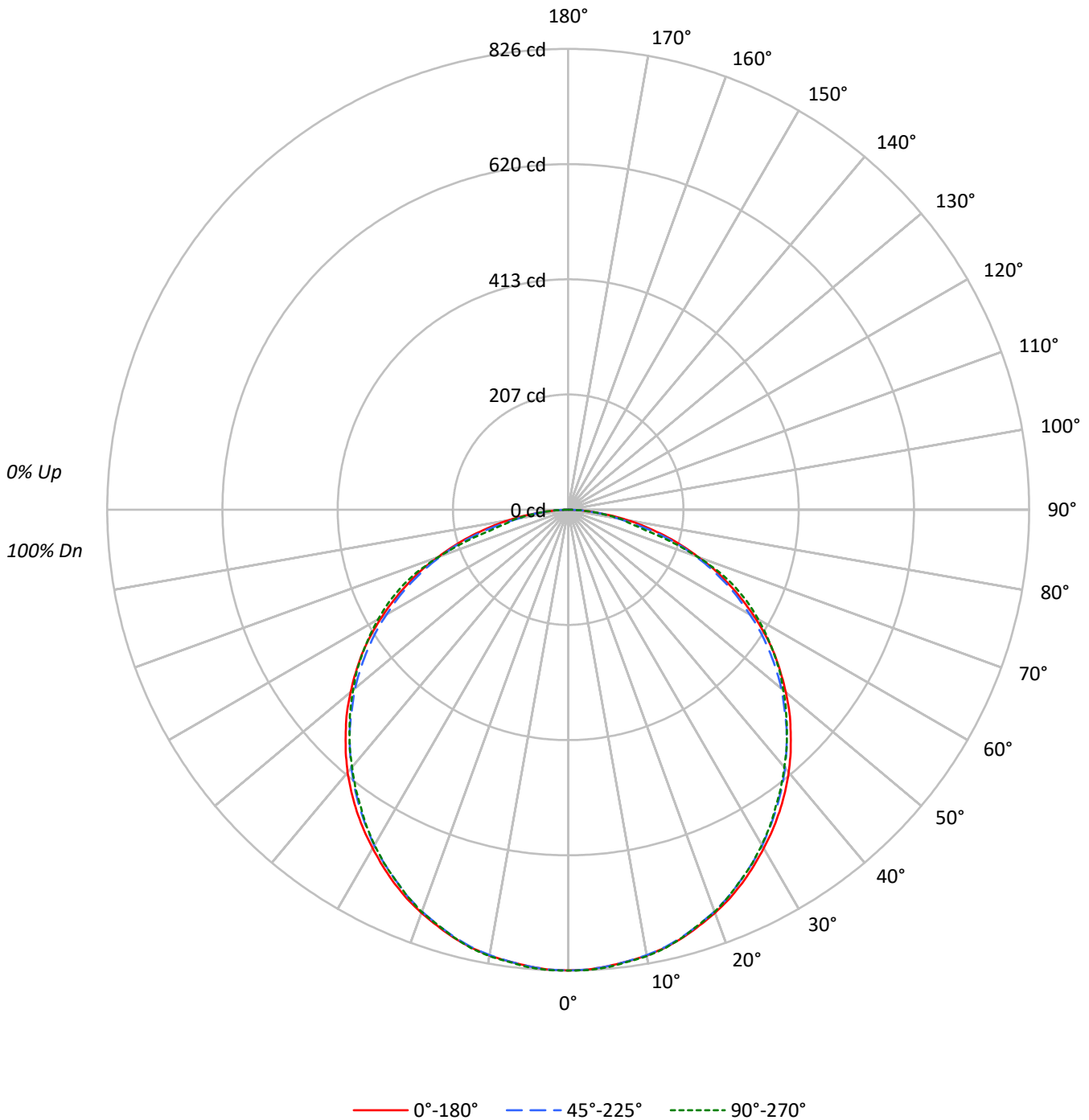
Input Watts (W): 17.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2223	2223	2223
5°	2218	2218	2223
10°	2217	2215	2220
15°	2213	2207	2210
20°	2202	2194	2197
25°	2192	2175	2175
30°	2177	2159	2156
35°	2169	2140	2131
40°	2160	2123	2116
45°	2146	2105	2109
50°	2130	2086	2106
55°	2116	2062	2112
60°	2080	2023	2116
65°	2031	1982	2111
70°	1949	1903	1941
75°	1843	1744	1513
80°	1672	1404	1494
85°	1220	1250	1220



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.1	3.2
10°-20°	223.6	9.3
20°-30°	338.2	14.0
30°-40°	408.5	16.9
40°-50°	428.8	17.8
50°-60°	397.3	16.5
60°-70°	313.7	13.0
70°-80°	175.9	7.3
80°-90°	47.5	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°	639.9	26.5
0°-40°	1048.4	43.5
0°-60°	1874.5	77.7
0°-90°	2411.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2411.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	826	826	826	826	826	
5°	821	820	821	822	823	78
15°	794	792	792	792	793	224
25°	738	735	732	731	732	340
35°	660	657	652	648	649	413
45°	564	559	553	550	554	435
55°	451	446	440	443	450	402
65°	319	315	311	322	332	316
75°	177	174	168	151	146	187
85°	40	40	40	40	40	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	826.0	826.0	826.0	826.0	826.0
2.5°	825.0	824.1	825.0	825.0	826.0
5°	821.2	820.2	821.2	822.1	823.1
7.5°	816.4	815.4	816.4	817.3	817.3
10°	811.5	809.6	810.6	811.5	812.5
12.5°	803.8	802.9	802.9	802.9	804.8
15°	794.2	792.3	792.3	792.3	793.2
17.5°	781.7	780.7	779.7	779.7	779.7
20°	769.1	767.2	766.2	765.3	767.2
22.5°	754.7	752.7	750.8	748.9	750.8
25°	738.3	735.4	732.5	730.6	732.5
27.5°	720.0	718.0	714.2	711.3	714.2
30°	700.7	697.8	694.9	692.0	693.9
32.5°	681.4	678.5	673.7	669.9	672.7
35°	660.2	657.3	651.5	647.7	648.6
37.5°	638.0	634.2	628.4	624.6	626.5
40°	614.9	611.1	604.3	599.5	602.4
42.5°	589.9	586.0	579.3	576.4	579.3
45°	563.8	559.0	553.2	550.3	554.2
47.5°	537.8	534.0	525.3	525.3	529.1
50°	508.9	505.0	498.3	498.3	503.1
52.5°	480.0	475.2	469.4	471.3	478.1
55°	451.1	446.2	439.5	443.4	450.1
57.5°	419.3	415.4	408.7	414.4	422.2
60°	386.5	381.7	375.9	383.6	393.2
62.5°	352.8	348.9	344.1	353.7	364.3
65°	319.0	315.2	311.3	321.9	331.6
67.5°	286.3	281.4	277.6	287.2	294.0
70°	247.7	244.8	241.9	243.8	246.7
72.5°	213.0	210.1	207.2	199.5	196.6
75°	177.3	174.5	167.7	151.3	145.5
77.5°	142.6	139.8	127.2	112.8	113.7
80°	107.9	105.1	90.6	93.5	96.4
82.5°	74.2	70.4	67.5	66.5	66.5
85°	39.5	39.5	40.5	39.5	39.5
87.5°	16.4	17.3	17.3	17.3	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)