

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: P393366

Luminaire Tested: **22EN-LD2-39-UNV-L92765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393366  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22EN-LD2-39-UNV-L92765-W2A-1-U (4500K)  
Description: 2X2 ENCOUNTER, 3900 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3229.5 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

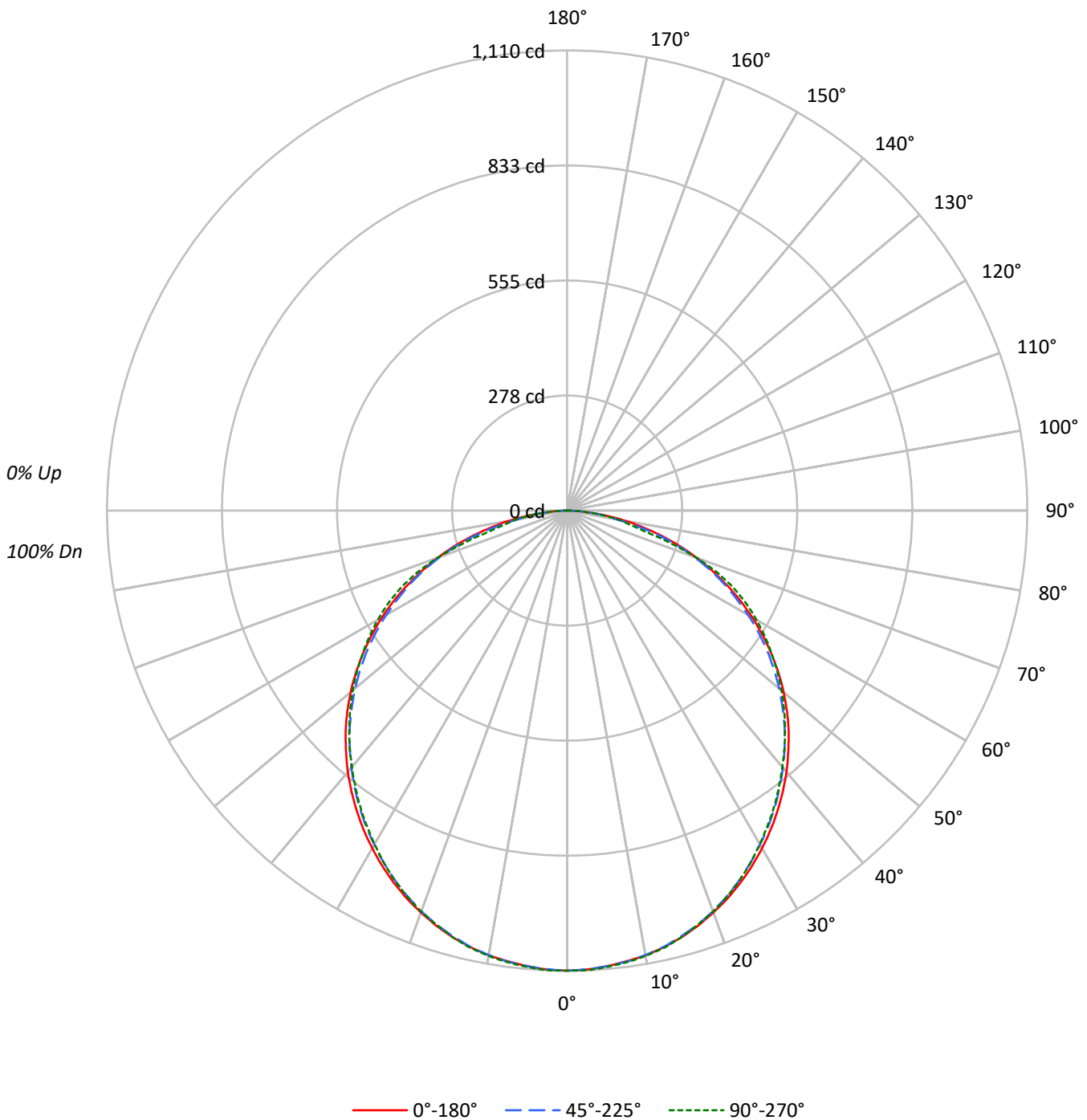
Input Watts (W): 29.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	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	40	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°	2986	2986	2986
5°	2980	2980	2985
10°	2977	2974	2981
15°	2968	2961	2968
20°	2955	2945	2948
25°	2939	2920	2922
30°	2923	2892	2887
35°	2906	2869	2861
40°	2891	2845	2837
45°	2876	2823	2829
50°	2854	2796	2827
55°	2821	2763	2825
60°	2777	2715	2838
65°	2704	2657	2830
70°	2605	2559	2611
75°	2452	2349	1998
80°	2202	1858	1973
85°	1572	1599	1599



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.9	3.2
10°-20°	300.2	9.3
20°-30°	453.7	14.0
30°-40°	547.5	17.0
40°-50°	574.6	17.8
50°-60°	531.7	16.5
60°-70°	419.7	13.0
70°-80°	235.0	7.3
80°-90°	62.2	1.9
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°	858.8	26.6
0°-40°	1406.3	43.5
0°-60°	2512.6	77.8
0°-90°	3229.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3229.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1110	1110	1110	1110	1110	
5°	1103	1102	1103	1103	1105	105
15°	1066	1065	1063	1063	1066	301
25°	990	987	983	981	984	456
35°	885	881	873	868	871	554
45°	756	751	742	738	743	583
55°	601	596	589	593	602	537
65°	425	421	417	430	444	420
75°	236	233	226	202	192	250
85°	51	51	52	52	52	65
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1109.8	1109.8	1109.8	1109.8	1109.8
2.5°	1108.2	1106.5	1107.4	1108.2	1109.8
5°	1103.3	1101.6	1103.3	1103.3	1104.9
7.5°	1096.7	1095.9	1097.5	1097.5	1099.2
10°	1089.3	1087.7	1088.5	1088.5	1090.9
12.5°	1078.6	1077.8	1077.8	1077.8	1080.3
15°	1065.5	1064.7	1063.0	1063.0	1065.5
17.5°	1049.9	1048.2	1047.4	1045.8	1047.4
20°	1031.8	1030.1	1028.5	1026.9	1029.3
22.5°	1012.1	1010.4	1007.1	1004.7	1008.0
25°	989.9	986.6	983.3	980.9	984.1
27.5°	966.1	962.0	957.9	955.4	957.9
30°	940.6	936.5	930.7	926.6	929.1
32.5°	913.5	909.4	902.8	898.7	900.4
35°	884.7	880.6	873.2	868.3	870.8
37.5°	854.4	850.2	842.0	837.1	839.6
40°	823.1	818.2	810.0	805.1	807.5
42.5°	789.5	785.3	776.3	770.6	776.3
45°	755.8	750.8	741.8	737.7	743.4
47.5°	719.6	713.9	704.8	703.2	709.8
50°	681.8	676.9	667.9	667.1	675.3
52.5°	642.4	636.7	628.4	630.1	639.1
55°	601.3	596.4	589.0	593.1	602.2
57.5°	558.6	554.5	547.1	555.3	566.0
60°	515.9	511.0	504.4	515.1	527.4
62.5°	471.5	465.8	460.0	474.0	488.0
65°	424.7	421.4	417.3	430.5	444.4
67.5°	377.9	375.4	372.1	384.5	392.7
70°	331.1	327.8	325.3	329.4	331.9
72.5°	285.9	280.1	278.5	267.8	262.9
75°	235.8	233.3	225.9	202.1	192.2
77.5°	188.1	184.8	168.4	151.2	152.0
80°	142.1	137.2	119.9	125.7	127.3
82.5°	96.9	92.8	88.7	88.7	87.1
85°	50.9	50.9	51.8	51.8	51.8
87.5°	20.5	22.2	22.2	22.2	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)