

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: P393371

Luminaire Tested: **22EN-LD2-39-UNV-L93050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393371  
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-L93050-W2A-1-U (3000K)  
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: 3230.5 lumens  
Efficiency: N/A  
Efficacy: 108.0 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

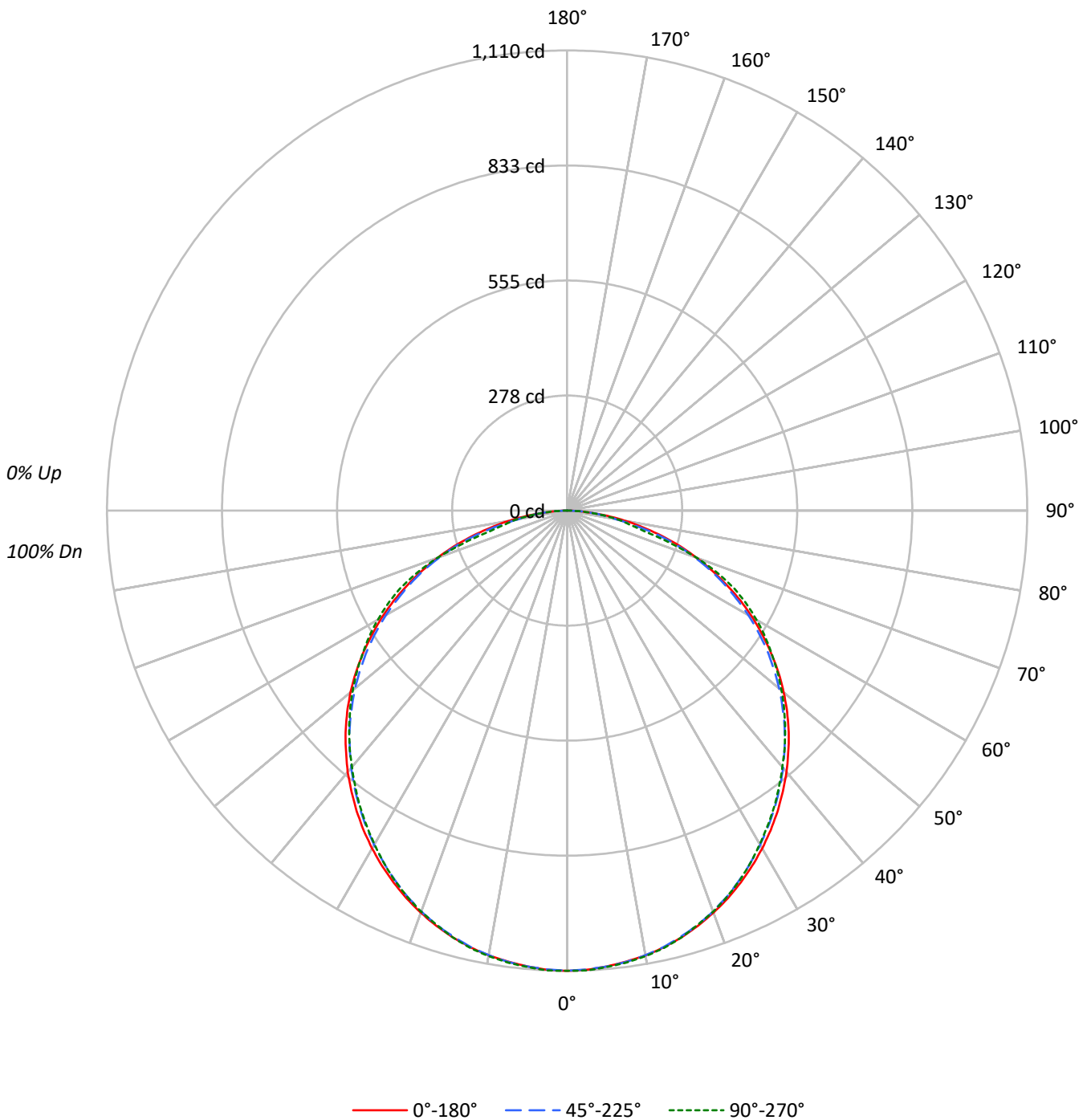
Input Watts (W): 29.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2988	2988	2988
5°	2981	2981	2985
10°	2977	2975	2982
15°	2969	2962	2969
20°	2956	2946	2948
25°	2940	2920	2923
30°	2924	2893	2888
35°	2907	2870	2861
40°	2892	2846	2838
45°	2877	2824	2830
50°	2855	2797	2828
55°	2822	2764	2826
60°	2778	2716	2840
65°	2705	2658	2831
70°	2606	2560	2612
75°	2452	2350	1999
80°	2204	1860	1974
85°	1572	1599	1599



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.9	3.2
10°-20°	300.3	9.3
20°-30°	453.9	14.0
30°-40°	547.7	17.0
40°-50°	574.8	17.8
50°-60°	531.9	16.5
60°-70°	419.8	13.0
70°-80°	235.1	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°	859.1	26.6
0°-40°	1406.8	43.5
0°-60°	2513.4	77.8
0°-90°	3230.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3230.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1110	1110	1110	1110	1110	
5°	1104	1102	1104	1104	1105	105
15°	1066	1065	1063	1063	1066	301
25°	990	987	984	981	984	456
35°	885	881	874	869	871	554
45°	756	751	742	738	744	583
55°	602	597	589	593	602	537
65°	425	422	417	431	445	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°	1110.2	1110.2	1110.2	1110.2	1110.2
2.5°	1108.5	1106.9	1107.7	1108.5	1110.2
5°	1103.6	1102.0	1103.6	1103.6	1105.2
7.5°	1097.0	1096.2	1097.8	1097.8	1099.5
10°	1089.6	1088.0	1088.8	1088.8	1091.3
12.5°	1078.9	1078.1	1078.1	1078.1	1080.6
15°	1065.8	1065.0	1063.3	1063.3	1065.8
17.5°	1050.2	1048.5	1047.7	1046.1	1047.7
20°	1032.1	1030.5	1028.8	1027.2	1029.6
22.5°	1012.4	1010.7	1007.5	1005.0	1008.3
25°	990.2	986.9	983.6	981.2	984.4
27.5°	966.4	962.3	958.2	955.7	958.2
30°	940.9	936.8	931.0	926.9	929.4
32.5°	913.8	909.7	903.1	899.0	900.6
35°	885.0	880.9	873.5	868.6	871.0
37.5°	854.6	850.5	842.3	837.4	839.8
40°	823.4	818.5	810.2	805.3	807.8
42.5°	789.7	785.6	776.5	770.8	776.5
45°	756.0	751.1	742.0	737.9	743.7
47.5°	719.8	714.1	705.1	703.4	710.0
50°	682.0	677.1	668.1	667.3	675.5
52.5°	642.6	636.9	628.6	630.3	639.3
55°	601.5	596.6	589.2	593.3	602.3
57.5°	558.8	554.7	547.3	555.5	566.2
60°	516.1	511.1	504.6	515.2	527.6
62.5°	471.7	465.9	460.2	474.1	488.1
65°	424.8	421.6	417.4	430.6	444.6
67.5°	378.0	375.5	372.2	384.6	392.8
70°	331.2	327.9	325.4	329.5	332.0
72.5°	286.0	280.2	278.6	267.9	263.0
75°	235.8	233.4	226.0	202.1	192.3
77.5°	188.2	184.9	168.5	151.2	152.0
80°	142.2	137.2	120.0	125.7	127.4
82.5°	97.0	92.9	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)