

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: P393365

Luminaire Tested: **22EN-LD2-39-UNV-L92765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393365  
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 (4000K)  
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: 3251.3 lumens  
Efficiency: N/A  
Efficacy: 109.1 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

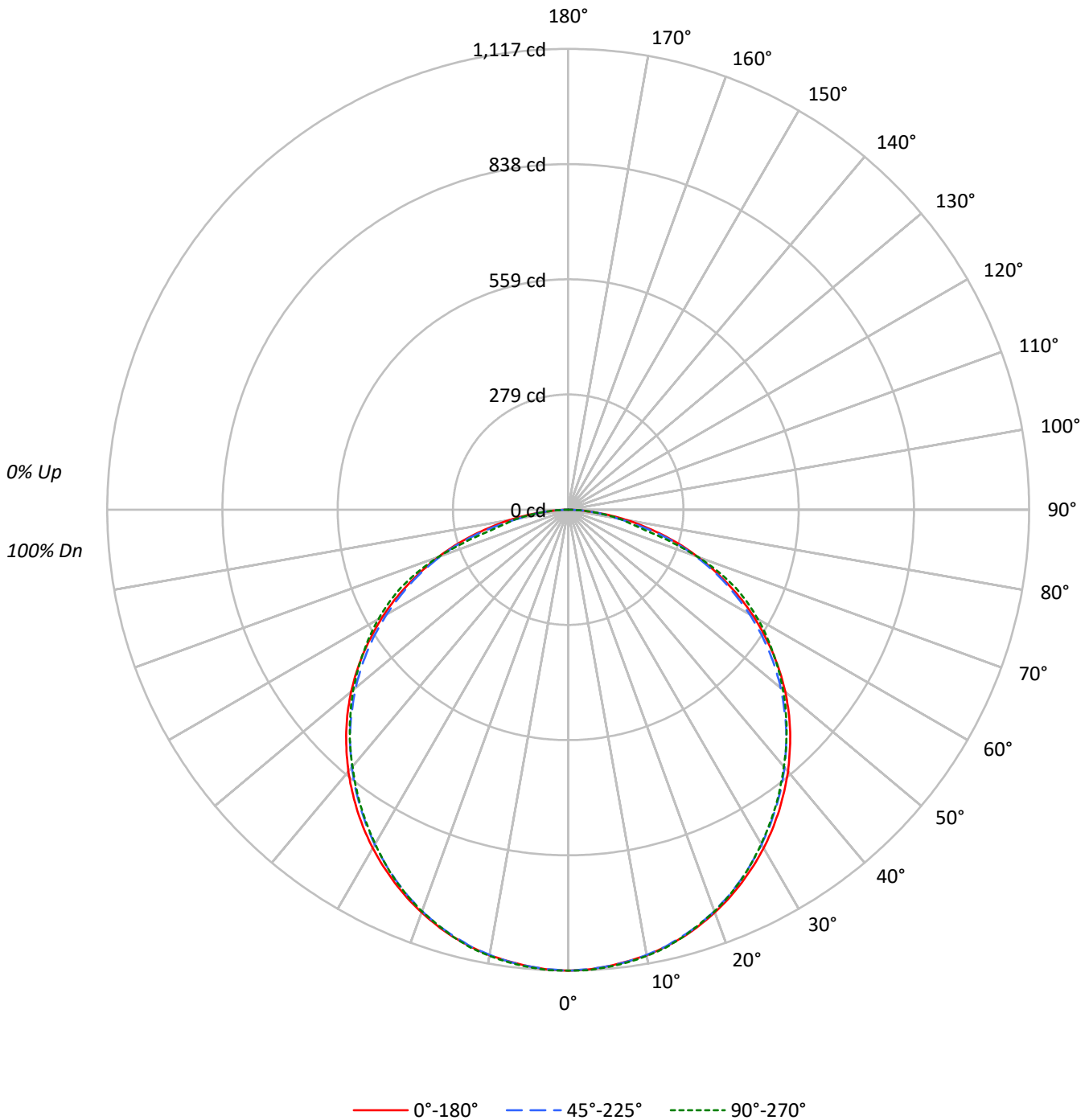
Input Watts (W): 29.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3007	3007	3007
5°	3000	3000	3005
10°	2997	2994	3001
15°	2988	2981	2988
20°	2975	2965	2968
25°	2959	2939	2942
30°	2943	2912	2907
35°	2926	2888	2880
40°	2911	2865	2856
45°	2896	2842	2849
50°	2874	2815	2846
55°	2840	2782	2844
60°	2795	2733	2858
65°	2723	2675	2849
70°	2622	2577	2629
75°	2468	2364	2012
80°	2218	1870	1987
85°	1584	1609	1609



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.6	3.2
10°-20°	302.2	9.3
20°-30°	456.8	14.0
30°-40°	551.2	17.0
40°-50°	578.5	17.8
50°-60°	535.3	16.5
60°-70°	422.5	13.0
70°-80°	236.6	7.3
80°-90°	62.6	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°	864.6	26.6
0°-40°	1415.8	43.5
0°-60°	2529.6	77.8
0°-90°	3251.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3251.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1117	1117	1117	1117	1117	
5°	1111	1109	1111	1111	1112	106
15°	1073	1072	1070	1070	1073	303
25°	997	993	990	988	991	459
35°	891	887	879	874	877	557
45°	761	756	747	743	748	587
55°	605	600	593	597	606	541
65°	428	424	420	433	447	423
75°	237	235	227	204	194	251
85°	51	51	52	52	52	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1117.3	1117.3	1117.3	1117.3	1117.3
2.5°	1115.7	1114.0	1114.8	1115.7	1117.3
5°	1110.7	1109.1	1110.7	1110.7	1112.4
7.5°	1104.1	1103.3	1104.9	1104.9	1106.6
10°	1096.7	1095.0	1095.8	1095.8	1098.3
12.5°	1085.9	1085.1	1085.1	1085.1	1087.6
15°	1072.7	1071.8	1070.2	1070.2	1072.7
17.5°	1057.0	1055.3	1054.5	1052.8	1054.5
20°	1038.8	1037.1	1035.4	1033.8	1036.3
22.5°	1018.9	1017.3	1013.9	1011.5	1014.8
25°	996.6	993.3	990.0	987.5	990.8
27.5°	972.6	968.5	964.3	961.8	964.3
30°	947.0	942.8	937.0	932.9	935.4
32.5°	919.7	915.5	908.9	904.8	906.4
35°	890.7	886.6	879.1	874.2	876.7
37.5°	860.1	856.0	847.7	842.8	845.2
40°	828.7	823.7	815.5	810.5	813.0
42.5°	794.8	790.6	781.5	775.8	781.5
45°	760.9	755.9	746.8	742.7	748.5
47.5°	724.5	718.7	709.6	707.9	714.6
50°	686.4	681.5	672.4	671.6	679.8
52.5°	646.7	641.0	632.7	634.3	643.4
55°	605.4	600.4	593.0	597.1	606.2
57.5°	562.4	558.2	550.8	559.1	569.8
60°	519.4	514.4	507.8	518.6	531.0
62.5°	474.7	468.9	463.1	477.2	491.3
65°	427.6	424.3	420.1	433.4	447.4
67.5°	380.4	378.0	374.6	387.1	395.3
70°	333.3	330.0	327.5	331.6	334.1
72.5°	287.8	282.0	280.4	269.6	264.7
75°	237.4	234.9	227.4	203.5	193.5
77.5°	189.4	186.1	169.5	152.2	153.0
80°	143.1	138.1	120.7	126.5	128.2
82.5°	97.6	93.5	89.3	89.3	87.7
85°	51.3	51.3	52.1	52.1	52.1
87.5°	20.7	22.3	22.3	22.3	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)