

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: P393367

Luminaire Tested: **22EN-LD2-39-UNV-L92765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393367  
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 (5000K)  
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: 3313.7 lumens  
Efficiency: N/A  
Efficacy: 111.2 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

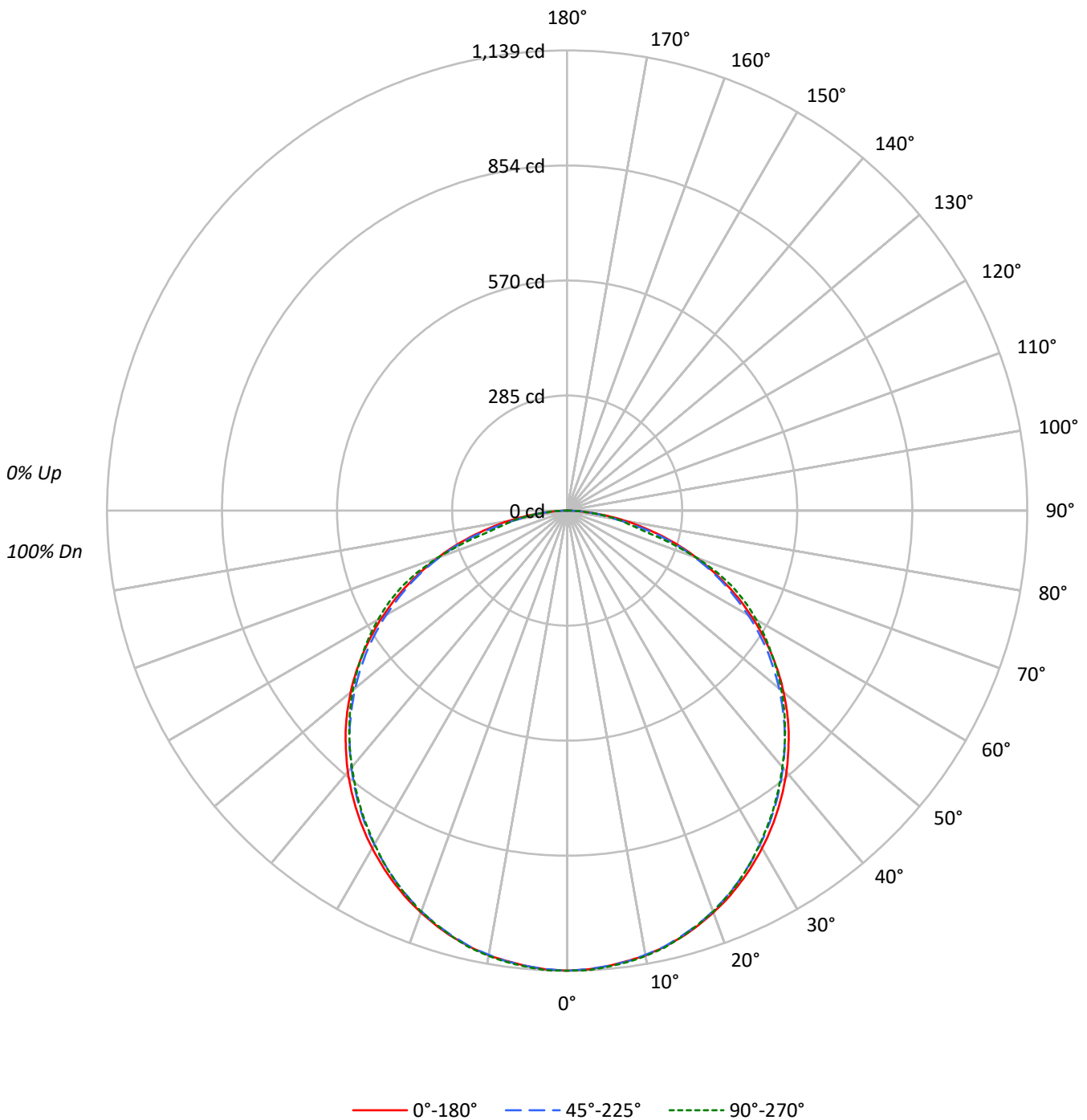
Input Watts (W): 29.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3064	3064	3064
5°	3058	3058	3062
10°	3054	3052	3059
15°	3046	3039	3046
20°	3032	3022	3025
25°	3016	2996	2998
30°	2999	2967	2962
35°	2982	2943	2935
40°	2967	2920	2911
45°	2951	2896	2903
50°	2929	2869	2901
55°	2895	2836	2898
60°	2849	2785	2912
65°	2775	2727	2904
70°	2673	2626	2679
75°	2515	2410	2050
80°	2259	1908	2024
85°	1615	1639	1639



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.6	3.2
10°-20°	308.0	9.3
20°-30°	465.6	14.0
30°-40°	561.8	17.0
40°-50°	589.5	17.8
50°-60°	545.6	16.5
60°-70°	430.6	13.0
70°-80°	241.1	7.3
80°-90°	63.8	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°	881.2	26.6
0°-40°	1443.0	43.5
0°-60°	2578.1	77.8
0°-90°	3313.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3313.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1139	1139	1139	1139	1139	
5°	1132	1130	1132	1132	1134	108
15°	1093	1092	1091	1091	1093	309
25°	1016	1012	1009	1006	1010	468
35°	908	904	896	891	894	568
45°	776	770	761	757	763	598
55°	617	612	604	609	618	551
65°	436	432	428	442	456	431
75°	242	239	232	207	197	256
85°	52	52	53	53	53	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	<i>1138.8</i>	<i>1138.8</i>	<i>1138.8</i>	<i>1138.8</i>	<i>1138.8</i>
2.5°	<i>1137.1</i>	1135.4	1136.2	1137.1	1138.8
5°	<i>1132.0</i>	1130.3	1132.0	1132.0	1133.7
7.5°	<i>1125.3</i>	1124.4	1126.1	1126.1	1127.8
10°	<i>1117.7</i>	1116.0	1116.8	1116.8	1119.4
12.5°	<i>1106.7</i>	1105.9	1105.9	1105.9	1108.4
15°	<i>1093.2</i>	1092.4	1090.7	1090.7	1093.2
17.5°	<i>1077.2</i>	1075.5	1074.7	1073.0	1074.7
20°	<i>1058.7</i>	1057.0	1055.3	1053.6	1056.2
22.5°	<i>1038.5</i>	1036.8	1033.4	1030.9	1034.2
25°	<i>1015.7</i>	1012.3	1009.0	1006.4	1009.8
27.5°	<i>991.2</i>	987.0	982.8	980.3	982.8
30°	<i>965.1</i>	960.9	955.0	950.8	953.3
32.5°	<i>937.3</i>	933.1	926.3	922.1	923.8
35°	<i>907.8</i>	903.6	896.0	890.9	893.5
37.5°	<i>876.6</i>	872.4	864.0	858.9	861.4
40°	<i>844.6</i>	839.5	831.1	826.0	828.6
42.5°	<i>810.0</i>	805.8	796.5	790.6	796.5
45°	<i>775.5</i>	770.4	761.1	756.9	762.8
47.5°	<i>738.4</i>	732.5	723.2	721.5	728.3
50°	<i>699.6</i>	694.5	685.3	684.4	692.9
52.5°	<i>659.1</i>	653.2	644.8	646.5	655.8
55°	<i>617.0</i>	611.9	604.4	608.6	617.8
57.5°	<i>573.2</i>	569.0	561.4	569.8	580.8
60°	<i>529.3</i>	524.3	517.5	528.5	541.1
62.5°	<i>483.8</i>	477.9	472.0	486.4	500.7
65°	<i>435.8</i>	432.4	428.2	441.7	456.0
67.5°	<i>387.7</i>	385.2	381.8	394.5	402.9
70°	<i>339.7</i>	336.3	333.8	338.0	340.5
72.5°	<i>293.3</i>	287.4	285.7	274.8	269.7
75°	<i>241.9</i>	239.4	231.8	207.4	197.2
77.5°	<i>193.0</i>	189.7	172.8	155.1	155.9
80°	<i>145.8</i>	140.8	123.1	129.0	130.6
82.5°	<i>99.5</i>	95.2	91.0	91.0	89.3
85°	<i>52.3</i>	52.3	53.1	53.1	53.1
87.5°	<i>21.1</i>	22.8	22.8	22.8	22.8
90°	<i>0.0</i>	0.0	0.0	0.0	0.0

(END OF REPORT)