

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: P393368

Luminaire Tested: **22EN-LD2-39-UNV-L92765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393368
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 (5700K)
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: 3364.7 lumens
Efficiency: N/A
Efficacy: 113.3 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

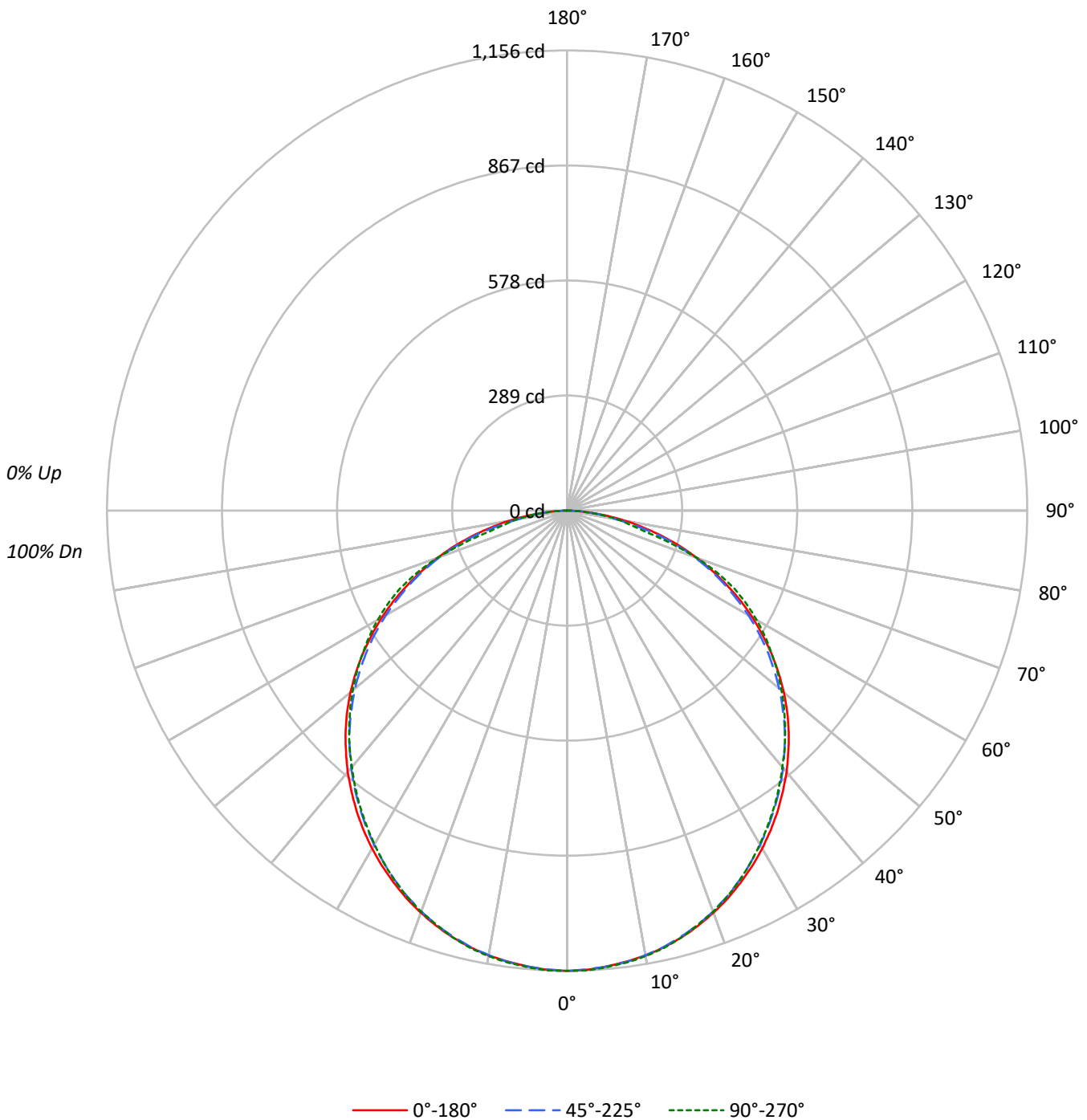
Input Watts (W): 29.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3112	3112	3112
5°	3105	3105	3109
10°	3101	3099	3106
15°	3093	3085	3093
20°	3078	3068	3071
25°	3062	3042	3044
30°	3045	3013	3008
35°	3028	2989	2980
40°	3013	2964	2955
45°	2997	2941	2948
50°	2974	2913	2945
55°	2939	2879	2943
60°	2893	2828	2957
65°	2818	2769	2948
70°	2714	2666	2721
75°	2554	2447	2083
80°	2295	1937	2056
85°	1639	1664	1664



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.2	3.2
10°-20°	312.8	9.3
20°-30°	472.7	14.0
30°-40°	570.4	17.0
40°-50°	598.6	17.8
50°-60°	554.0	16.5
60°-70°	437.3	13.0
70°-80°	244.8	7.3
80°-90°	64.8	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°	894.7	26.6
0°-40°	1465.2	43.5
0°-60°	2617.8	77.8
0°-90°	3364.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3364.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1156	1156	1156	1156	1156	
5°	1149	1148	1149	1149	1151	109
15°	1110	1109	1108	1108	1110	313
25°	1031	1028	1024	1022	1025	475
35°	922	918	910	905	907	577
45°	787	782	773	769	775	607
55°	626	621	614	618	627	560
65°	442	439	435	448	463	438
75°	246	243	235	210	200	260
85°	53	53	54	54	54	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1156.3	1156.3	1156.3	1156.3	1156.3
2.5°	1154.6	1152.9	1153.7	1154.6	1156.3
5°	1149.4	1147.7	1149.4	1149.4	1151.1
7.5°	1142.6	1141.7	1143.4	1143.4	1145.2
10°	1134.9	1133.2	1134.0	1134.0	1136.6
12.5°	1123.8	1122.9	1122.9	1122.9	1125.5
15°	1110.1	1109.2	1107.5	1107.5	1110.1
17.5°	1093.8	1092.1	1091.2	1089.5	1091.2
20°	1075.0	1073.3	1071.5	1069.8	1072.4
22.5°	1054.4	1052.7	1049.3	1046.7	1050.2
25°	1031.3	1027.9	1024.5	1021.9	1025.3
27.5°	1006.5	1002.2	997.9	995.4	997.9
30°	980.0	975.7	969.7	965.4	968.0
32.5°	951.7	947.4	940.6	936.3	938.0
35°	921.8	917.5	909.8	904.7	907.2
37.5°	890.1	885.8	877.3	872.1	874.7
40°	857.6	852.4	843.9	838.8	841.3
42.5°	822.5	818.2	808.8	802.8	808.8
45°	787.4	782.3	772.8	768.6	774.6
47.5°	749.7	743.7	734.3	732.6	739.5
50°	710.4	705.2	695.8	695.0	703.5
52.5°	669.3	663.3	654.7	656.5	665.9
55°	626.5	621.4	613.7	617.9	627.4
57.5°	582.0	577.7	570.0	578.6	589.7
60°	537.5	532.4	525.5	536.6	549.5
62.5°	491.3	485.3	479.3	493.8	508.4
65°	442.5	439.1	434.8	448.5	463.0
67.5°	393.7	391.1	387.7	400.5	409.1
70°	344.9	341.5	338.9	343.2	345.8
72.5°	297.8	291.9	290.1	279.0	273.9
75°	245.6	243.1	235.4	210.5	200.3
77.5°	196.0	192.6	175.5	157.5	158.3
80°	148.1	142.9	125.0	130.9	132.7
82.5°	101.0	96.7	92.4	92.4	90.7
85°	53.1	53.1	53.9	53.9	53.9
87.5°	21.4	23.1	23.1	23.1	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)