

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: P393363

Luminaire Tested: **22EN-LD2-39-UNV-L92765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393363  
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 (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: 3043.4 lumens  
Efficiency: N/A  
Efficacy: 102.8 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

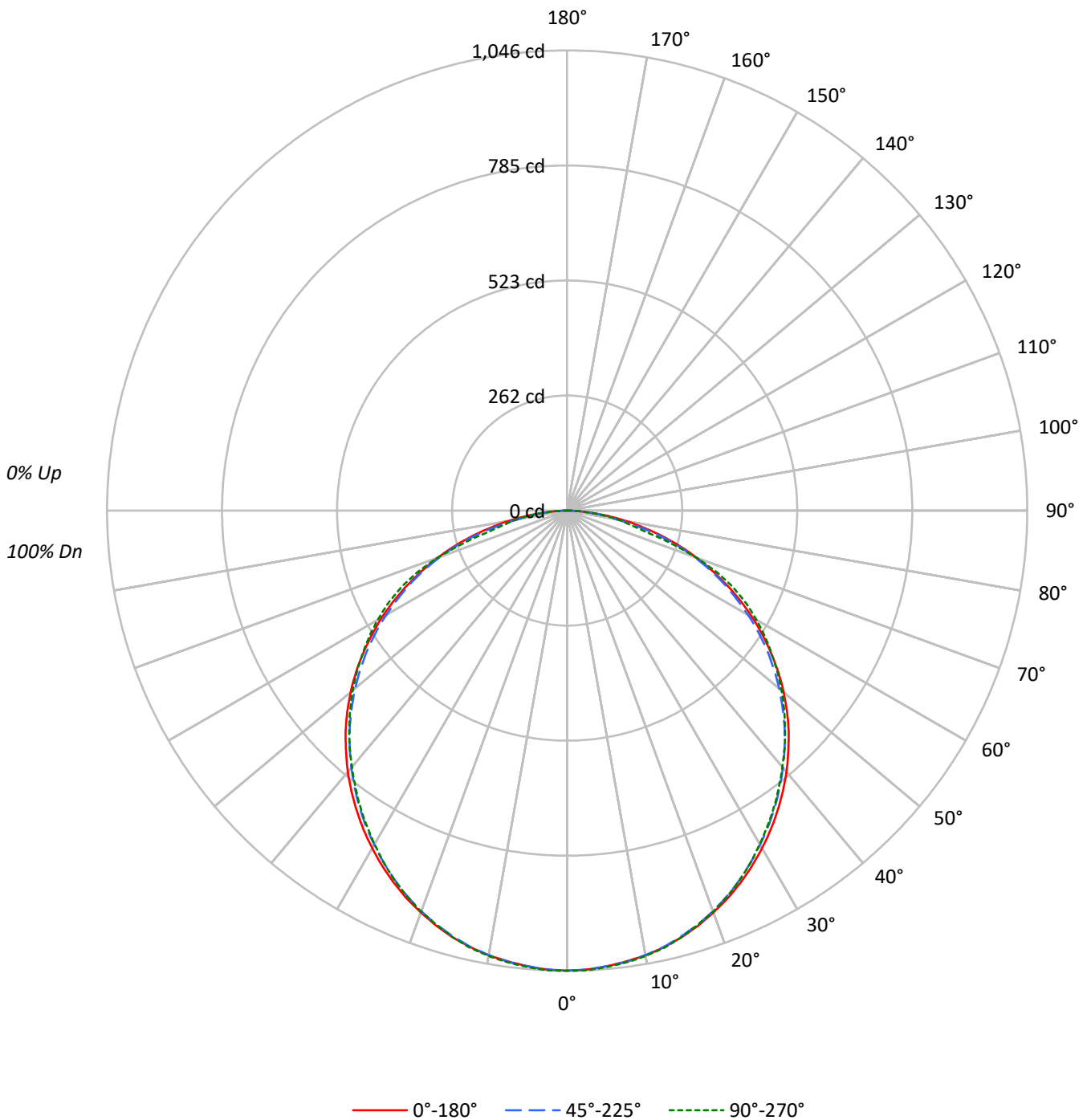
Input Watts (W): 29.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2814	2814	2814
5°	2808	2808	2813
10°	2805	2803	2809
15°	2797	2791	2797
20°	2784	2775	2778
25°	2770	2752	2754
30°	2754	2725	2721
35°	2739	2703	2696
40°	2725	2681	2673
45°	2710	2661	2666
50°	2690	2635	2664
55°	2659	2604	2662
60°	2617	2558	2675
65°	2548	2504	2667
70°	2455	2412	2461
75°	2310	2214	1884
80°	2075	1751	1860
85°	1482	1507	1507



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.8	3.2
10°-20°	282.9	9.3
20°-30°	427.6	14.0
30°-40°	516.0	17.0
40°-50°	541.5	17.8
50°-60°	501.1	16.5
60°-70°	395.5	13.0
70°-80°	221.5	7.3
80°-90°	58.6	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°	809.3	26.6
0°-40°	1325.3	43.5
0°-60°	2367.8	77.8
0°-90°	3043.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3043.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1040	1038	1040	1040	1041	99
15°	1004	1003	1002	1002	1004	283
25°	933	930	927	924	927	430
35°	834	830	823	818	821	522
45°	712	708	699	695	701	549
55°	567	562	555	559	568	506
65°	400	397	393	406	419	396
75°	222	220	213	190	181	235
85°	48	48	49	49	49	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1045.9	1045.9	1045.9	1045.9	1045.9
2.5°	1044.3	1042.8	1043.6	1044.3	1045.9
5°	1039.7	1038.1	1039.7	1039.7	1041.2
7.5°	1033.5	1032.7	1034.3	1034.3	1035.8
10°	1026.5	1025.0	1025.8	1025.8	1028.1
12.5°	1016.5	1015.7	1015.7	1015.7	1018.0
15°	1004.1	1003.3	1001.8	1001.8	1004.1
17.5°	989.4	987.8	987.0	985.5	987.0
20°	972.3	970.8	969.2	967.7	970.0
22.5°	953.8	952.2	949.1	946.8	949.9
25°	932.9	929.8	926.7	924.3	927.4
27.5°	910.4	906.5	902.7	900.3	902.7
30°	886.4	882.5	877.1	873.2	875.6
32.5°	860.9	857.0	850.8	846.9	848.5
35°	833.8	829.9	822.9	818.3	820.6
37.5°	805.1	801.2	793.5	788.9	791.2
40°	775.7	771.1	763.3	758.7	761.0
42.5°	744.0	740.1	731.6	726.2	731.6
45°	712.2	707.6	699.1	695.2	700.6
47.5°	678.2	672.7	664.2	662.7	668.9
50°	642.5	637.9	629.4	628.6	636.4
52.5°	605.4	600.0	592.2	593.8	602.3
55°	566.7	562.0	555.1	558.9	567.5
57.5°	526.4	522.6	515.6	523.3	533.4
60°	486.2	481.5	475.3	485.4	497.0
62.5°	444.4	438.9	433.5	446.7	459.8
65°	400.2	397.1	393.3	405.7	418.8
67.5°	356.1	353.8	350.7	362.3	370.0
70°	312.0	308.9	306.6	310.4	312.8
72.5°	269.4	264.0	262.4	252.4	247.7
75°	222.2	219.9	212.9	190.4	181.2
77.5°	177.3	174.2	158.7	142.4	143.2
80°	133.9	129.3	113.0	118.4	120.0
82.5°	91.4	87.5	83.6	83.6	82.1
85°	48.0	48.0	48.8	48.8	48.8
87.5°	19.4	20.9	20.9	20.9	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)