

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: P393364

Luminaire Tested: **22EN-LD2-39-UNV-L92765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393364
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 (3500K)
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: 3113.4 lumens
Efficiency: N/A
Efficacy: 104.8 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

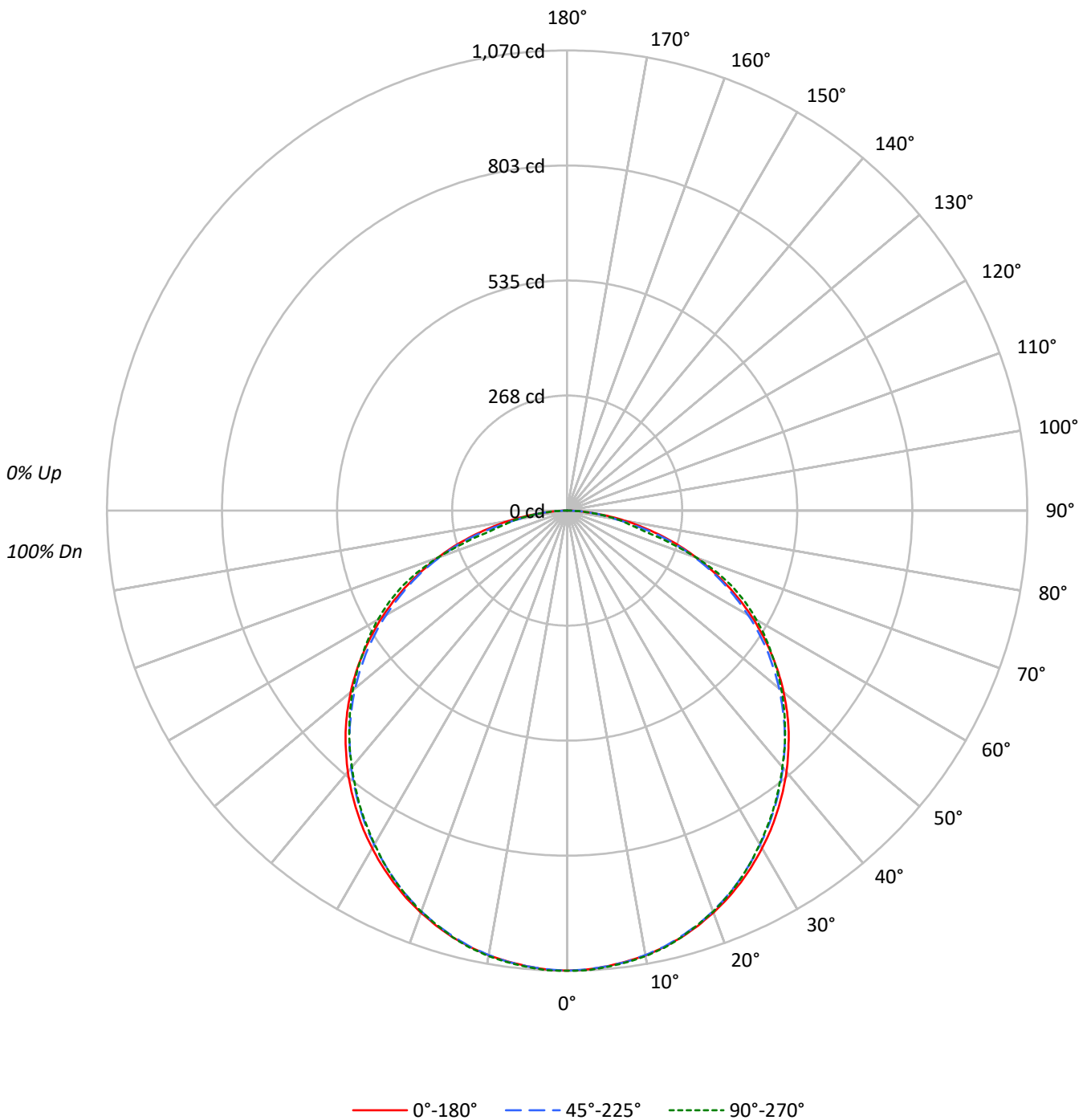
Input Watts (W): 29.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2879	2879	2879
5°	2873	2873	2877
10°	2869	2867	2874
15°	2862	2855	2862
20°	2849	2839	2842
25°	2833	2815	2817
30°	2818	2788	2783
35°	2802	2765	2758
40°	2787	2743	2735
45°	2773	2721	2727
50°	2752	2696	2725
55°	2720	2664	2723
60°	2676	2617	2736
65°	2607	2562	2728
70°	2511	2467	2517
75°	2363	2264	1927
80°	2123	1791	1903
85°	1516	1541	1541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	3.2
10°-20°	289.4	9.3
20°-30°	437.4	14.0
30°-40°	527.8	17.0
40°-50°	553.9	17.8
50°-60°	512.6	16.5
60°-70°	404.6	13.0
70°-80°	226.6	7.3
80°-90°	60.0	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°	827.9	26.6
0°-40°	1355.8	43.5
0°-60°	2422.3	77.8
0°-90°	3113.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3113.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1070	1070	1070	1070	1070	
5°	1064	1062	1064	1064	1065	101
15°	1027	1026	1025	1025	1027	290
25°	954	951	948	946	949	440
35°	853	849	842	837	840	534
45°	729	724	715	711	717	562
55°	580	575	568	572	580	518
65°	409	406	402	415	428	405
75°	227	225	218	195	185	241
85°	49	49	50	50	50	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1069.9	1069.9	1069.9	1069.9	1069.9
2.5°	1068.3	1066.8	1067.6	1068.3	1069.9
5°	1063.6	1062.0	1063.6	1063.6	1065.2
7.5°	1057.3	1056.5	1058.0	1058.0	1059.6
10°	1050.1	1048.5	1049.3	1049.3	1051.7
12.5°	1039.8	1039.0	1039.0	1039.0	1041.4
15°	1027.2	1026.4	1024.8	1024.8	1027.2
17.5°	1012.1	1010.5	1009.7	1008.2	1009.7
20°	994.7	993.1	991.5	989.9	992.3
22.5°	975.7	974.1	970.9	968.6	971.7
25°	954.3	951.1	948.0	945.6	948.8
27.5°	931.3	927.4	923.4	921.0	923.4
30°	906.8	902.8	897.3	893.3	895.7
32.5°	880.7	876.7	870.4	866.4	868.0
35°	852.9	849.0	841.8	837.1	839.5
37.5°	823.6	819.7	811.8	807.0	809.4
40°	793.5	788.8	780.9	776.1	778.5
42.5°	761.1	757.1	748.4	742.9	748.4
45°	728.6	723.8	715.1	711.2	716.7
47.5°	693.8	688.2	679.5	677.9	684.2
50°	657.3	652.6	643.9	643.1	651.0
52.5°	619.3	613.8	605.8	607.4	616.1
55°	579.7	575.0	567.8	571.8	580.5
57.5°	538.5	534.6	527.4	535.4	545.7
60°	497.3	492.6	486.3	496.6	508.4
62.5°	454.6	449.0	443.5	457.0	470.4
65°	409.4	406.3	402.3	415.0	428.4
67.5°	364.3	361.9	358.8	370.6	378.6
70°	319.2	316.0	313.6	317.6	319.9
72.5°	275.6	270.1	268.5	258.2	253.4
75°	227.3	224.9	217.8	194.8	185.3
77.5°	181.4	178.2	162.4	145.7	146.5
80°	137.0	132.3	115.6	121.2	122.8
82.5°	93.5	89.5	85.5	85.5	83.9
85°	49.1	49.1	49.9	49.9	49.9
87.5°	19.8	21.4	21.4	21.4	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)