

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: P393362

Luminaire Tested: **22EN-LD2-39-UNV-L92765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393362
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 (2700K)
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: 2950.5 lumens
Efficiency: N/A
Efficacy: 99.7 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

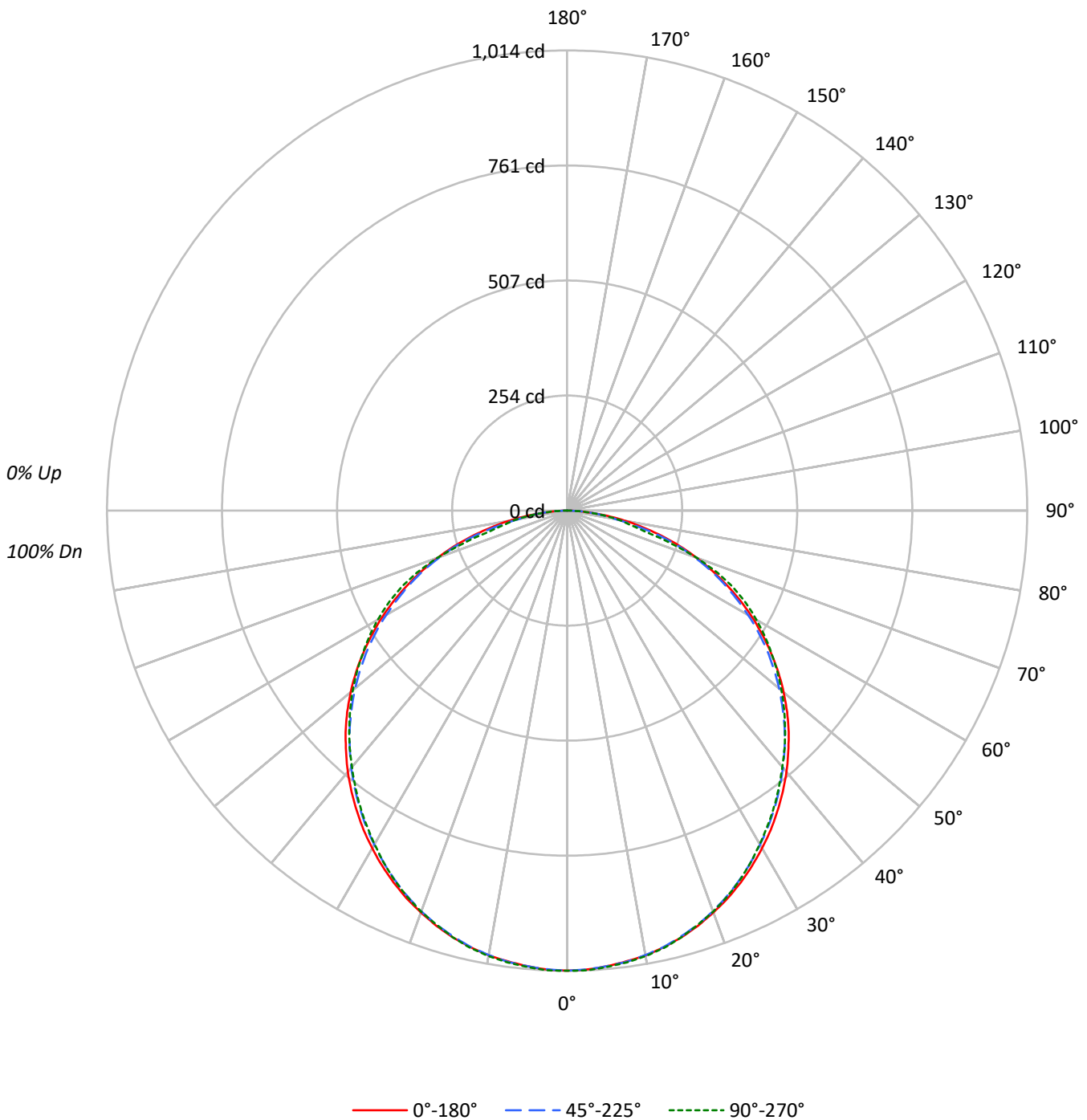
Input Watts (W): 29.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2728	2728	2728
5°	2723	2723	2727
10°	2719	2717	2723
15°	2712	2706	2712
20°	2699	2691	2693
25°	2685	2667	2670
30°	2670	2642	2637
35°	2655	2621	2613
40°	2642	2599	2591
45°	2628	2579	2585
50°	2608	2555	2583
55°	2578	2525	2581
60°	2537	2480	2593
65°	2471	2428	2585
70°	2380	2338	2386
75°	2240	2146	1826
80°	2011	1698	1802
85°	1436	1460	1460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	3.2
10°-20°	274.3	9.3
20°-30°	414.5	14.0
30°-40°	500.2	17.0
40°-50°	524.9	17.8
50°-60°	485.7	16.5
60°-70°	383.4	13.0
70°-80°	214.7	7.3
80°-90°	56.8	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°	784.6	26.6
0°-40°	1284.8	43.5
0°-60°	2295.5	77.8
0°-90°	2950.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2950.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1014	1014	1014	1014	1014	
5°	1008	1006	1008	1008	1009	96
15°	973	973	971	971	973	275
25°	904	901	898	896	899	417
35°	808	804	798	793	796	506
45°	690	686	678	674	679	532
55°	549	545	538	542	550	491
65°	388	385	381	393	406	384
75°	215	213	206	185	176	228
85°	46	46	47	47	47	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1013.9	1013.9	1013.9	1013.9	1013.9
2.5°	1012.4	1010.9	1011.7	1012.4	1013.9
5°	1007.9	1006.4	1007.9	1007.9	1009.4
7.5°	1001.9	1001.2	1002.7	1002.7	1004.2
10°	995.2	993.7	994.4	994.4	996.7
12.5°	985.4	984.7	984.7	984.7	986.9
15°	973.4	972.7	971.2	971.2	973.4
17.5°	959.1	957.6	956.9	955.4	956.9
20°	942.6	941.1	939.6	938.1	940.4
22.5°	924.6	923.1	920.1	917.9	920.9
25°	904.4	901.4	898.4	896.1	899.1
27.5°	882.6	878.8	875.1	872.8	875.1
30°	859.3	855.6	850.3	846.6	848.8
32.5°	834.6	830.8	824.8	821.1	822.6
35°	808.3	804.5	797.8	793.3	795.5
37.5°	780.5	776.8	769.3	764.8	767.0
40°	752.0	747.5	740.0	735.5	737.7
42.5°	721.2	717.5	709.2	704.0	709.2
45°	690.5	686.0	677.7	674.0	679.2
47.5°	657.4	652.2	643.9	642.4	648.4
50°	622.9	618.4	610.2	609.4	616.9
52.5°	586.9	581.6	574.1	575.6	583.9
55°	549.4	544.9	538.1	541.9	550.1
57.5°	510.3	506.6	499.8	507.3	517.1
60°	471.3	466.8	460.8	470.6	481.8
62.5°	430.8	425.5	420.3	433.0	445.8
65°	388.0	385.0	381.3	393.3	406.0
67.5°	345.2	343.0	340.0	351.2	358.7
70°	302.5	299.5	297.2	301.0	303.2
72.5°	261.2	255.9	254.4	244.7	240.2
75°	215.4	213.1	206.4	184.6	175.6
77.5°	171.9	168.9	153.9	138.1	138.8
80°	129.8	125.3	109.6	114.8	116.3
82.5°	88.6	84.8	81.1	81.1	79.6
85°	46.5	46.5	47.3	47.3	47.3
87.5°	18.8	20.3	20.3	20.3	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)