

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: P392796

Luminaire Tested: **12EN-LD2-17-UNV-L93050-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392796
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-35)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-17-UNV-L93050-W2A-1-U (3500K)
Description: 1X2 ENCOUNTER, 1700 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1567.8 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.4
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

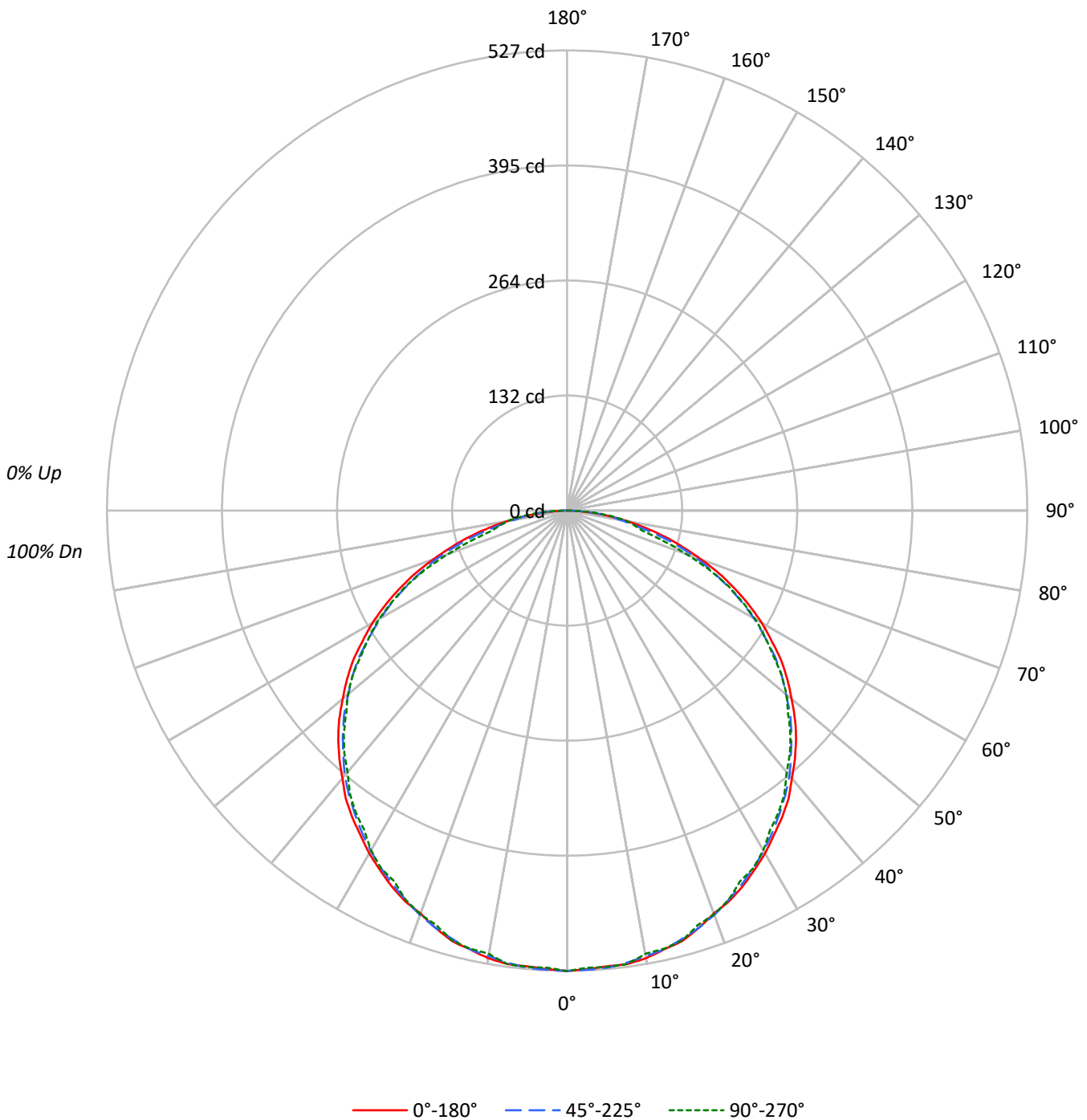
Input Watts (W): 15.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	36	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2838	2838	2838
5°	2830	2840	2835
10°	2845	2831	2817
15°	2844	2830	2839
20°	2813	2822	2817
25°	2821	2806	2782
30°	2817	2796	2791
35°	2818	2784	2773
40°	2812	2783	2747
45°	2822	2765	2752
50°	2809	2739	2746
55°	2809	2722	2699
60°	2770	2661	2679
65°	2699	2560	2581
70°	2567	2461	2275
75°	2412	2204	1853
80°	2163	1903	2163
85°	1661	1976	2130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.9	3.2
10°-20°	143.3	9.1
20°-30°	217.9	13.9
30°-40°	265.7	16.9
40°-50°	281.2	17.9
50°-60°	260.2	16.6
60°-70°	201.9	12.9
70°-80°	112.8	7.2
80°-90°	35.0	2.2
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°	411.1	26.2
0°-40°	676.8	43.2
0°-60°	1218.3	77.7
0°-90°	1567.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1567.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	527	527	527	527	527	
5°	524	525	526	522	525	50
15°	510	509	508	508	510	144
25°	475	473	473	473	468	219
35°	429	428	424	420	422	268
45°	371	368	363	361	362	286
55°	299	296	290	288	288	266
65°	212	209	201	203	203	209
75°	116	114	106	95	89	122
85°	27	28	32	34	34	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	527.3	527.3	527.3	527.3	527.3
2.5°	525.6	525.6	526.4	528.9	523.9
5°	523.9	524.7	525.6	522.2	524.7
7.5°	523.9	522.2	522.2	522.2	523.9
10°	520.5	516.3	518.0	519.7	515.5
12.5°	514.6	514.6	514.6	511.3	513.8
15°	510.4	508.8	507.9	507.9	509.6
17.5°	501.2	499.5	501.2	501.2	497.8
20°	491.1	493.6	492.8	490.3	491.9
22.5°	484.4	484.4	482.7	481.9	482.7
25°	475.1	472.6	472.6	472.6	468.4
27.5°	464.2	463.4	461.7	458.3	461.7
30°	453.3	451.6	449.9	448.2	449.1
32.5°	440.6	439.0	437.3	437.3	433.1
35°	428.9	428.0	423.8	420.5	422.1
37.5°	416.3	412.9	410.4	407.8	408.7
40°	400.3	398.6	396.1	393.6	391.0
42.5°	386.0	385.1	379.3	376.7	377.6
45°	370.8	368.3	363.3	360.8	361.6
47.5°	354.0	351.5	346.5	344.8	343.1
50°	335.5	334.7	327.1	324.6	328.0
52.5°	317.9	315.3	309.5	306.9	309.5
55°	299.4	296.0	290.1	287.6	287.6
57.5°	277.5	275.8	267.4	265.7	268.3
60°	257.3	254.0	247.2	245.6	248.9
62.5°	235.5	232.1	224.5	225.4	226.2
65°	211.9	209.4	201.0	202.7	202.7
67.5°	188.4	185.0	178.3	175.8	174.9
70°	163.1	160.6	156.4	148.0	144.6
72.5°	138.8	137.1	132.0	118.6	116.0
75°	116.0	113.5	106.0	95.0	89.1
77.5°	91.7	91.7	80.7	77.4	79.0
80°	69.8	69.0	61.4	67.3	69.8
82.5°	47.9	46.3	49.6	52.1	53.0
85°	26.9	27.8	32.0	33.6	34.5
87.5°	10.9	13.5	14.3	16.0	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)