

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: P392794

Luminaire Tested: **12EN-LD2-17-UNV-L93050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392794
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 (2700K)
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: 1609.8 lumens
Efficiency: N/A
Efficacy: 103.9 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

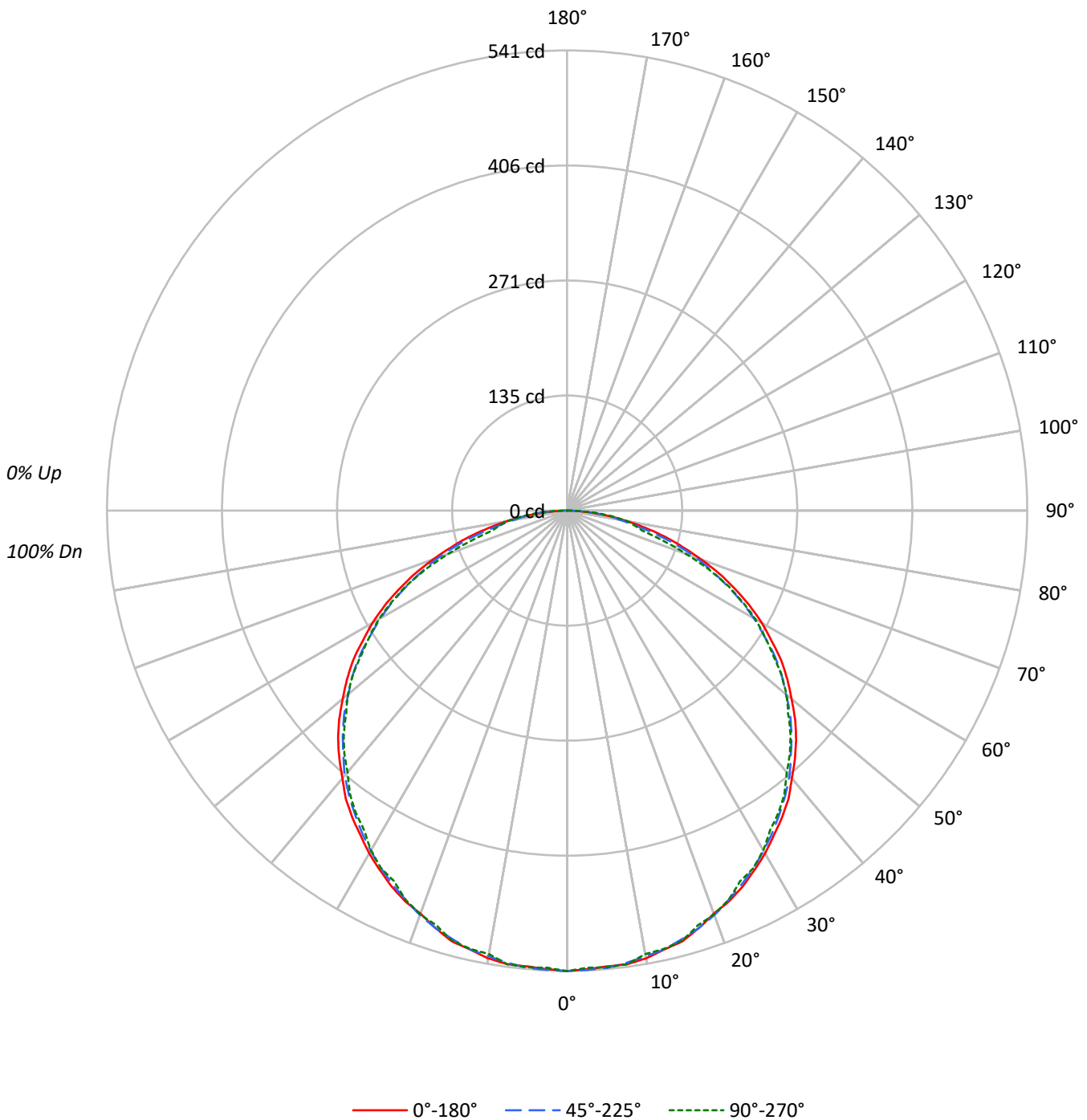
Input Watts (W): 15.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2914	2914	2914
5°	2906	2915	2911
10°	2921	2907	2893
15°	2920	2906	2915
20°	2888	2898	2893
25°	2897	2881	2856
30°	2892	2871	2866
35°	2893	2859	2848
40°	2888	2857	2821
45°	2898	2839	2826
50°	2884	2812	2819
55°	2884	2795	2771
60°	2844	2732	2751
65°	2771	2628	2650
70°	2636	2527	2337
75°	2479	2262	1903
80°	2222	1953	2222
85°	1704	2025	2186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.2	3.2
10°-20°	147.2	9.1
20°-30°	223.7	13.9
30°-40°	272.8	16.9
40°-50°	288.7	17.9
50°-60°	267.2	16.6
60°-70°	207.3	12.9
70°-80°	115.8	7.2
80°-90°	35.9	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°	422.1	26.2
0°-40°	694.9	43.2
0°-60°	1250.9	77.7
0°-90°	1609.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1609.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	541	541	541	541	541	
5°	538	539	540	536	539	51
15°	524	522	522	522	523	147
25°	488	485	485	485	481	225
35°	440	440	435	432	433	275
45°	381	378	373	370	371	293
55°	307	304	298	295	295	274
65°	218	215	206	208	208	215
75°	119	117	109	98	92	125
85°	28	28	33	34	35	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	541.4	541.4	541.4	541.4	541.4
2.5°	539.6	539.6	540.5	543.1	537.9
5°	537.9	538.8	539.6	536.2	538.8
7.5°	537.9	536.2	536.2	536.2	537.9
10°	534.5	530.1	531.9	533.6	529.3
12.5°	528.4	528.4	528.4	525.0	527.6
15°	524.1	522.4	521.5	521.5	523.2
17.5°	514.6	512.9	514.6	514.6	511.2
20°	504.2	506.8	506.0	503.4	505.1
22.5°	497.3	497.3	495.6	494.7	495.6
25°	487.8	485.2	485.2	485.2	480.9
27.5°	476.6	475.8	474.0	470.6	474.0
30°	465.4	463.7	461.9	460.2	461.1
32.5°	452.4	450.7	449.0	449.0	444.7
35°	440.3	439.5	435.2	431.7	433.4
37.5°	427.4	423.9	421.4	418.8	419.6
40°	411.0	409.3	406.7	404.1	401.5
42.5°	396.3	395.5	389.4	386.8	387.7
45°	380.8	378.2	373.0	370.4	371.3
47.5°	363.5	360.9	355.7	354.0	352.3
50°	344.5	343.6	335.9	333.3	336.7
52.5°	326.4	323.8	317.7	315.2	317.7
55°	307.4	303.9	297.9	295.3	295.3
57.5°	284.9	283.2	274.6	272.8	275.4
60°	264.2	260.8	253.8	252.1	255.6
62.5°	241.8	238.3	230.5	231.4	232.3
65°	217.6	215.0	206.4	208.1	208.1
67.5°	193.4	190.0	183.0	180.5	179.6
70°	167.5	164.9	160.6	152.0	148.5
72.5°	142.5	140.7	135.6	121.7	119.2
75°	119.2	116.6	108.8	97.6	91.5
77.5°	94.1	94.1	82.9	79.4	81.2
80°	71.7	70.8	63.0	69.1	71.7
82.5°	49.2	47.5	50.9	53.5	54.4
85°	27.6	28.5	32.8	34.5	35.4
87.5°	11.2	13.8	14.7	16.4	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)