

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: P392801

Luminaire Tested: **12EN-LD2-17-UNV-L93050-W2A-1-U (6500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392801
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 (6500K)
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: 1644.7 lumens
Efficiency: N/A
Efficacy: 108.2 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

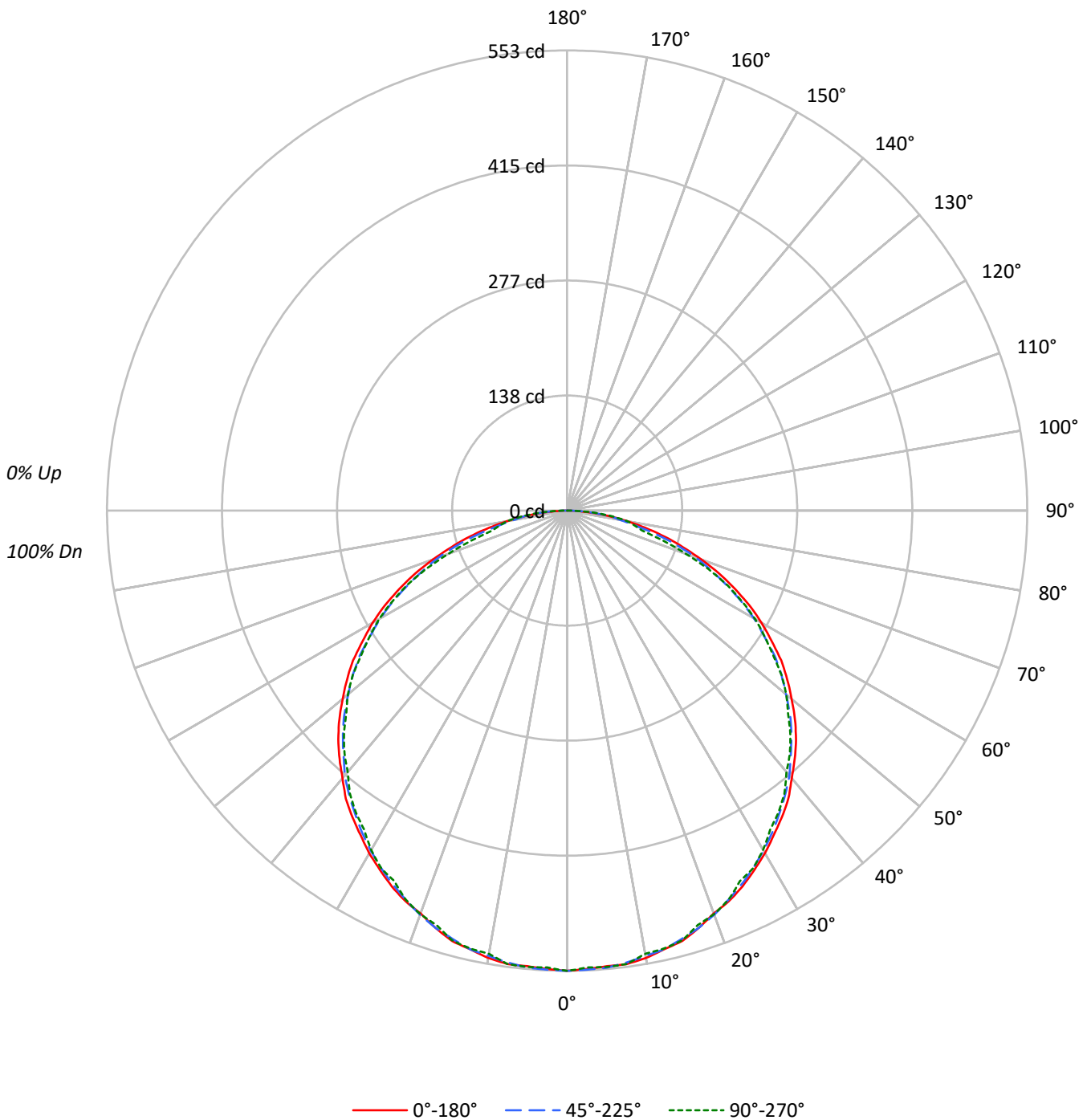
Input Watts (W): 15.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2977	2977	2977
5°	2969	2978	2974
10°	2984	2970	2955
15°	2984	2969	2979
20°	2951	2960	2956
25°	2960	2944	2918
30°	2955	2933	2928
35°	2956	2921	2909
40°	2950	2919	2882
45°	2961	2901	2887
50°	2947	2874	2880
55°	2946	2855	2831
60°	2905	2792	2810
65°	2831	2684	2707
70°	2692	2582	2387
75°	2531	2312	1944
80°	2269	1996	2269
85°	1741	2069	2235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.3	3.2
10°-20°	150.3	9.1
20°-30°	228.6	13.9
30°-40°	278.7	16.9
40°-50°	295.0	17.9
50°-60°	273.0	16.6
60°-70°	211.7	12.9
70°-80°	118.3	7.2
80°-90°	36.7	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°	431.3	26.2
0°-40°	710.0	43.2
0°-60°	1278.0	77.7
0°-90°	1644.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1644.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	553	553	553	553	553	
5°	550	550	551	548	550	52
15°	536	534	533	533	535	151
25°	498	496	496	496	491	230
35°	450	449	445	441	443	281
45°	389	386	381	378	379	300
55°	314	310	304	302	302	280
65°	222	220	211	213	213	220
75°	122	119	111	100	94	128
85°	28	29	34	35	36	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	553.1	553.1	553.1	553.1	553.1
2.5°	551.3	551.3	552.2	554.9	549.6
5°	549.6	550.5	551.3	547.8	550.5
7.5°	549.6	547.8	547.8	547.8	549.6
10°	546.0	541.6	543.4	545.2	540.8
12.5°	539.9	539.9	539.9	536.3	539.0
15°	535.5	533.7	532.8	532.8	534.6
17.5°	525.8	524.0	525.8	525.8	522.2
20°	515.2	517.8	516.9	514.3	516.1
22.5°	508.1	508.1	506.4	505.5	506.4
25°	498.4	495.8	495.8	495.8	491.4
27.5°	486.9	486.1	484.3	480.8	484.3
30°	475.5	473.7	471.9	470.2	471.1
32.5°	462.2	460.5	458.7	458.7	454.3
35°	449.9	449.0	444.6	441.1	442.8
37.5°	436.7	433.1	430.5	427.8	428.7
40°	419.9	418.1	415.5	412.8	410.2
42.5°	404.9	404.0	397.8	395.2	396.1
45°	389.0	386.4	381.1	378.4	379.3
47.5°	371.4	368.7	363.4	361.7	359.9
50°	352.0	351.1	343.2	340.5	344.0
52.5°	333.5	330.8	324.6	322.0	324.6
55°	314.0	310.5	304.3	301.7	301.7
57.5°	291.1	289.3	280.5	278.8	281.4
60°	269.9	266.4	259.4	257.6	261.1
62.5°	247.0	243.5	235.5	236.4	237.3
65°	222.3	219.7	210.8	212.6	212.6
67.5°	197.6	194.1	187.0	184.4	183.5
70°	171.1	168.5	164.1	155.3	151.7
72.5°	145.6	143.8	138.5	124.4	121.7
75°	121.7	119.1	111.2	99.7	93.5
77.5°	96.2	96.2	84.7	81.2	82.9
80°	73.2	72.3	64.4	70.6	73.2
82.5°	50.3	48.5	52.0	54.7	55.6
85°	28.2	29.1	33.5	35.3	36.2
87.5°	11.5	14.1	15.0	16.8	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)