

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: P392770

Luminaire Tested: **12EN-LD2-17-UNV-L82765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392770  
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-L82765-W2A-1-U (2700K)  
Description: 1X2 ENCOUNTER, 1700 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 3000K/5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1693.7 lumens  
Efficiency: N/A  
Efficacy: 109.3 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

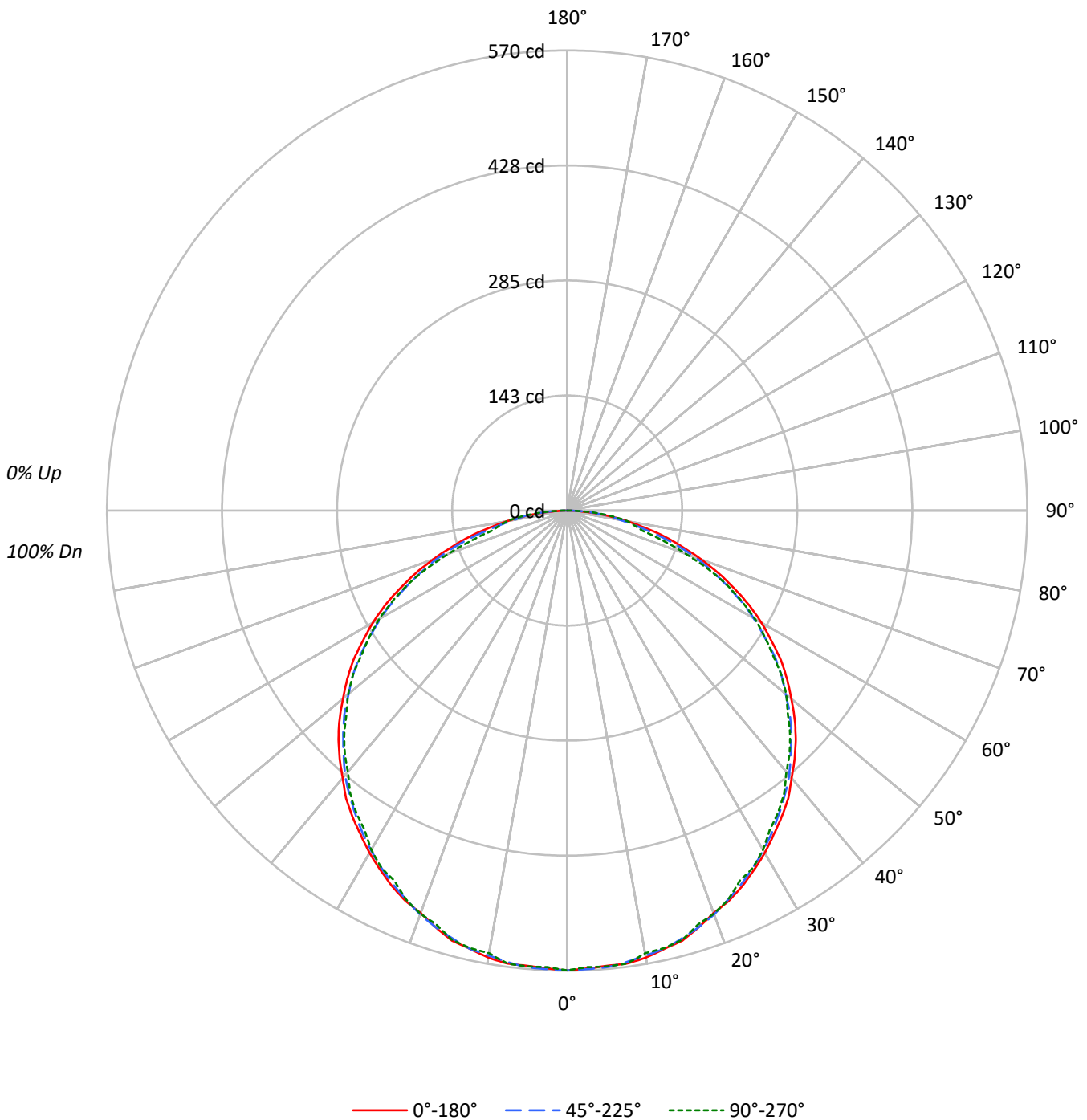
Input Watts (W): 15.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3066	3066	3066
5°	3058	3068	3063
10°	3073	3058	3043
15°	3072	3057	3067
20°	3038	3049	3044
25°	3048	3032	3005
30°	3043	3020	3015
35°	3044	3008	2996
40°	3038	3006	2968
45°	3049	2987	2973
50°	3035	2959	2966
55°	3035	2941	2915
60°	2992	2875	2894
65°	2915	2765	2788
70°	2773	2659	2458
75°	2608	2381	2002
80°	2337	2055	2337
85°	1797	2130	2297



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.9	3.2
10°-20°	154.8	9.1
20°-30°	235.4	13.9
30°-40°	287.0	16.9
40°-50°	303.8	17.9
50°-60°	281.2	16.6
60°-70°	218.1	12.9
70°-80°	121.8	7.2
80°-90°	37.7	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°	444.1	26.2
0°-40°	731.2	43.2
0°-60°	1316.1	77.7
0°-90°	1693.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1693.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	570	570	570	570	570	
5°	566	567	568	564	567	54
15°	551	550	549	549	550	155
25°	513	510	510	510	506	236
35°	463	462	458	454	456	290
45°	401	398	392	390	391	309
55°	323	320	313	311	311	288
65°	229	226	217	219	219	226
75°	125	123	114	103	96	132
85°	29	30	34	36	37	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	569.6	569.6	569.6	569.6	569.6
2.5°	567.8	567.8	568.7	571.4	566.0
5°	566.0	566.9	567.8	564.1	566.9
7.5°	566.0	564.1	564.1	564.1	566.0
10°	562.3	557.8	559.6	561.4	556.9
12.5°	556.0	556.0	556.0	552.3	555.1
15°	551.4	549.6	548.7	548.7	550.5
17.5°	541.4	539.6	541.4	541.4	537.8
20°	530.5	533.2	532.3	529.6	531.4
22.5°	523.3	523.3	521.4	520.5	521.4
25°	513.3	510.5	510.5	510.5	506.0
27.5°	501.5	500.5	498.7	495.1	498.7
30°	489.6	487.8	486.0	484.2	485.1
32.5°	476.0	474.2	472.4	472.4	467.8
35°	463.3	462.4	457.8	454.2	456.0
37.5°	449.7	446.0	443.3	440.6	441.5
40°	432.4	430.6	427.9	425.1	422.4
42.5°	417.0	416.1	409.7	407.0	407.9
45°	400.6	397.9	392.4	389.7	390.6
47.5°	382.4	379.7	374.3	372.5	370.6
50°	362.5	361.6	353.4	350.7	354.3
52.5°	343.4	340.7	334.3	331.6	334.3
55°	323.4	319.8	313.4	310.7	310.7
57.5°	299.8	298.0	288.9	287.1	289.8
60°	278.0	274.3	267.1	265.3	268.9
62.5°	254.4	250.7	242.6	243.5	244.4
65°	228.9	226.2	217.1	218.9	218.9
67.5°	203.5	199.9	192.6	189.9	189.0
70°	176.2	173.5	169.0	159.9	156.2
72.5°	149.9	148.1	142.6	128.1	125.4
75°	125.4	122.6	114.5	102.7	96.3
77.5°	99.0	99.0	87.2	83.6	85.4
80°	75.4	74.5	66.3	72.7	75.4
82.5°	51.8	50.0	53.6	56.3	57.2
85°	29.1	30.0	34.5	36.3	37.2
87.5°	11.8	14.5	15.4	17.3	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)