

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: P392776

Luminaire Tested: **12EN-LD2-17-UNV-L82765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392776  
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 (5700K)  
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: 1796.9 lumens  
Efficiency: N/A  
Efficacy: 117.4 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

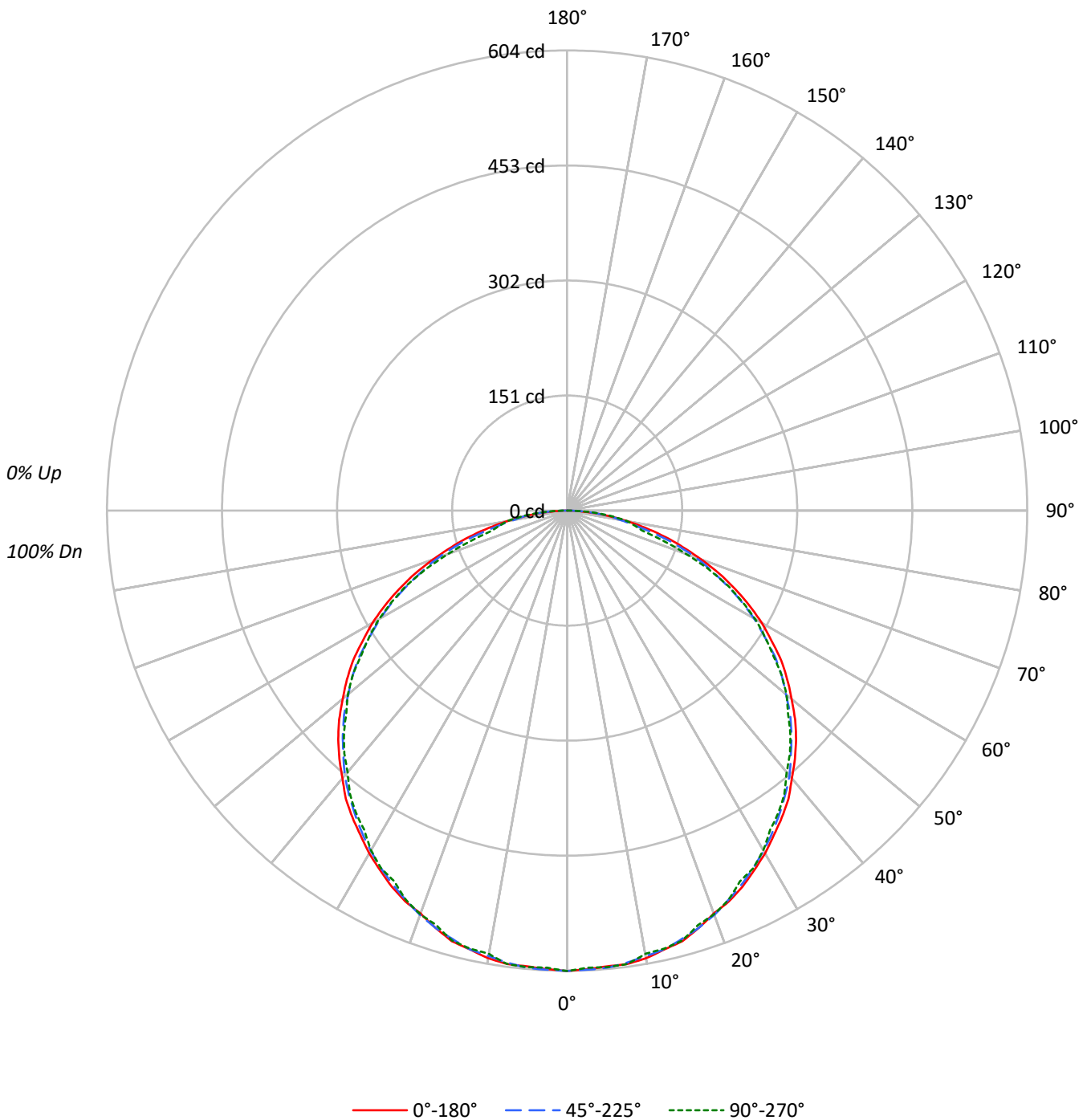
Input Watts (W): 15.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3252	3252	3252
5°	3244	3254	3249
10°	3260	3245	3229
15°	3260	3243	3254
20°	3224	3235	3229
25°	3234	3217	3188
30°	3228	3204	3199
35°	3229	3192	3179
40°	3223	3190	3149
45°	3235	3169	3154
50°	3220	3139	3147
55°	3219	3120	3093
60°	3174	3050	3071
65°	3093	2934	2958
70°	2943	2821	2609
75°	2766	2524	2125
80°	2479	2182	2479
85°	1902	2260	2439



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.2	3.2
10°-20°	164.3	9.1
20°-30°	249.8	13.9
30°-40°	304.5	16.9
40°-50°	322.3	17.9
50°-60°	298.3	16.6
60°-70°	231.3	12.9
70°-80°	129.2	7.2
80°-90°	40.1	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°	471.2	26.2
0°-40°	775.7	43.2
0°-60°	1396.3	77.7
0°-90°	1796.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1796.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	604	604	604	604	604	
5°	600	601	602	598	601	57
15°	585	583	582	582	584	165
25°	545	542	542	542	537	251
35°	492	491	486	482	484	308
45°	425	422	416	414	414	327
55°	343	339	332	330	330	305
65°	243	240	230	232	232	240
75°	133	130	121	109	102	140
85°	31	32	37	39	40	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	604.3	604.3	604.3	604.3	604.3
2.5°	602.4	602.4	603.3	606.2	600.5
5°	600.5	601.4	602.4	598.5	601.4
7.5°	600.5	598.5	598.5	598.5	600.5
10°	596.6	591.8	593.7	595.6	590.8
12.5°	589.9	589.9	589.9	586.0	588.9
15°	585.0	583.1	582.1	582.1	584.1
17.5°	574.4	572.5	574.4	574.4	570.6
20°	562.9	565.8	564.8	561.9	563.8
22.5°	555.2	555.2	553.2	552.3	553.2
25°	544.6	541.7	541.7	541.7	536.8
27.5°	532.0	531.1	529.1	525.3	529.1
30°	519.5	517.6	515.6	513.7	514.7
32.5°	505.0	503.1	501.2	501.2	496.4
35°	491.5	490.6	485.8	481.9	483.8
37.5°	477.1	473.2	470.3	467.5	468.4
40°	458.8	456.8	454.0	451.1	448.2
42.5°	442.4	441.4	434.7	431.8	432.8
45°	425.0	422.2	416.4	413.5	414.4
47.5°	405.8	402.9	397.1	395.2	393.2
50°	384.6	383.6	374.9	372.0	375.9
52.5°	364.3	361.4	354.7	351.8	354.7
55°	343.1	339.3	332.5	329.6	329.6
57.5°	318.1	316.1	306.5	304.6	307.5
60°	294.9	291.1	283.4	281.4	285.3
62.5°	269.9	266.0	257.3	258.3	259.3
65°	242.9	240.0	230.4	232.3	232.3
67.5°	215.9	212.0	204.3	201.4	200.5
70°	187.0	184.1	179.3	169.6	165.8
72.5°	159.0	157.1	151.3	135.9	133.0
75°	133.0	130.1	121.4	108.9	102.2
77.5°	105.1	105.1	92.5	88.7	90.6
80°	80.0	79.0	70.4	77.1	80.0
82.5°	54.9	53.0	56.9	59.8	60.7
85°	30.8	31.8	36.6	38.6	39.5
87.5°	12.5	15.4	16.4	18.3	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)