

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: P392789

Luminaire Tested: **12EN-LD2-17-UNV-L92765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392789  
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-L92765-W2A-1-U (4000K)  
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: 1541.9 lumens  
Efficiency: N/A  
Efficacy: 99.5 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

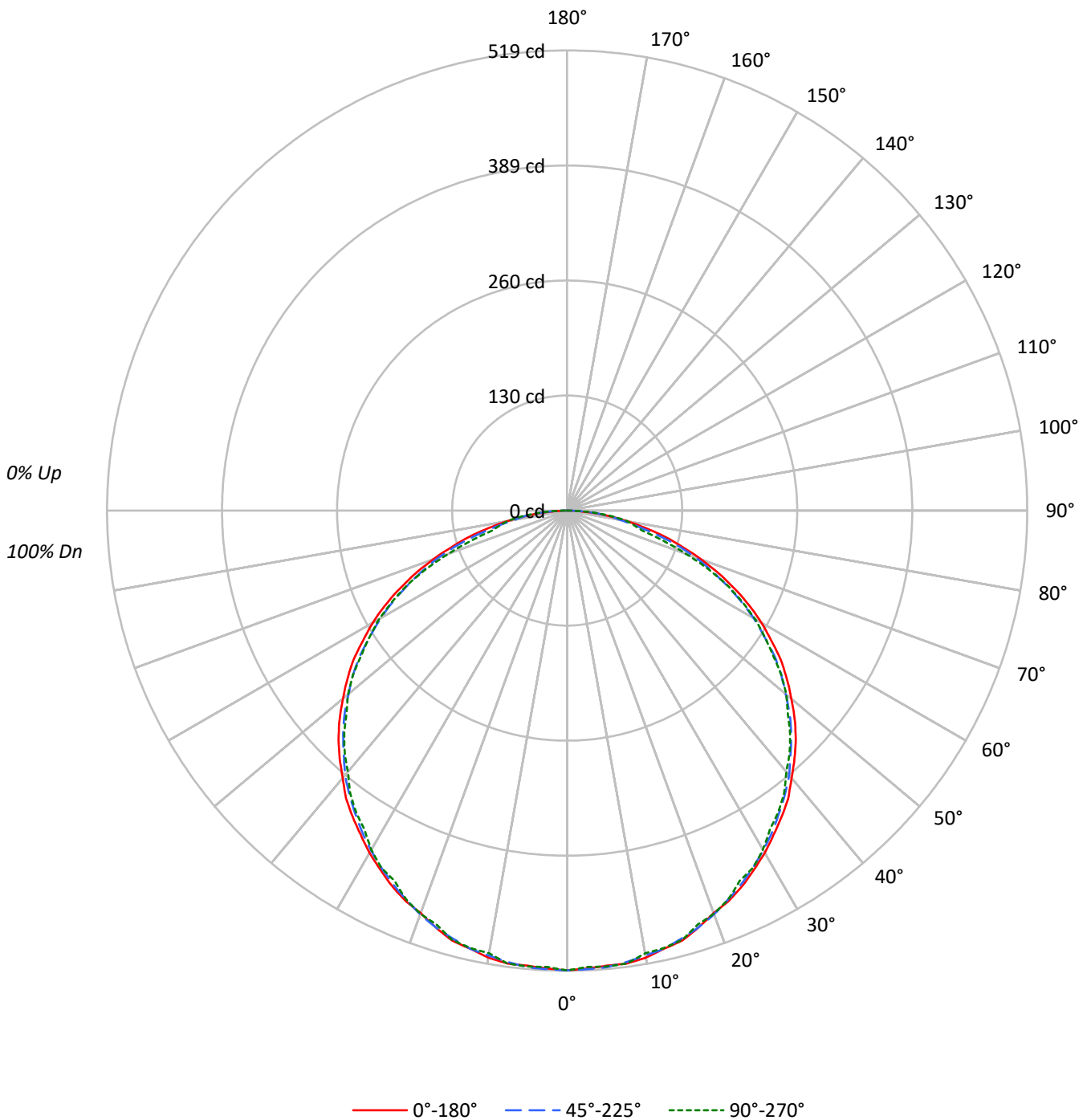
Input Watts (W): 15.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2791	2791	2791
5°	2783	2793	2788
10°	2798	2784	2771
15°	2797	2783	2793
20°	2766	2775	2771
25°	2775	2760	2736
30°	2770	2750	2744
35°	2771	2738	2728
40°	2766	2736	2702
45°	2776	2719	2707
50°	2763	2694	2700
55°	2762	2677	2654
60°	2724	2617	2635
65°	2654	2518	2538
70°	2524	2420	2239
75°	2373	2167	1824
80°	2126	1872	2126
85°	1636	1939	2093



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.1	3.2
10°-20°	141.0	9.1
20°-30°	214.3	13.9
30°-40°	261.3	16.9
40°-50°	276.5	17.9
50°-60°	255.9	16.6
60°-70°	198.5	12.9
70°-80°	110.9	7.2
80°-90°	34.4	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°	404.3	26.2
0°-40°	665.7	43.2
0°-60°	1198.1	77.7
0°-90°	1541.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1541.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	519	519	519	519	519	
5°	515	516	517	514	516	49
15°	502	500	500	500	501	141
25°	467	465	465	465	461	215
35°	422	421	417	414	415	264
45°	365	362	357	355	356	281
55°	294	291	285	283	283	262
65°	208	206	198	199	199	206
75°	114	112	104	94	88	120
85°	26	27	31	33	34	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	518.6	518.6	518.6	518.6	518.6
2.5°	516.9	516.9	517.7	520.2	515.2
5°	515.2	516.1	516.9	513.6	516.1
7.5°	515.2	513.6	513.6	513.6	515.2
10°	511.9	507.8	509.5	511.1	507.0
12.5°	506.1	506.1	506.1	502.8	505.3
15°	502.0	500.4	499.5	499.5	501.2
17.5°	492.9	491.3	492.9	492.9	489.6
20°	483.0	485.5	484.6	482.2	483.8
22.5°	476.4	476.4	474.7	473.9	474.7
25°	467.3	464.8	464.8	464.8	460.7
27.5°	456.5	455.7	454.0	450.7	454.0
30°	445.8	444.1	442.5	440.8	441.6
32.5°	433.4	431.7	430.1	430.1	425.9
35°	421.8	421.0	416.8	413.5	415.2
37.5°	409.4	406.1	403.6	401.1	401.9
40°	393.7	392.0	389.5	387.1	384.6
42.5°	379.6	378.8	373.0	370.5	371.3
45°	364.7	362.2	357.3	354.8	355.6
47.5°	348.2	345.7	340.7	339.1	337.4
50°	330.0	329.2	321.7	319.2	322.5
52.5°	312.6	310.1	304.3	301.9	304.3
55°	294.4	291.1	285.3	282.8	282.8
57.5°	272.9	271.3	263.0	261.3	263.8
60°	253.1	249.8	243.1	241.5	244.8
62.5°	231.6	228.3	220.8	221.6	222.5
65°	208.4	205.9	197.7	199.3	199.3
67.5°	185.3	181.9	175.3	172.9	172.0
70°	160.4	158.0	153.8	145.6	142.3
72.5°	136.5	134.8	129.8	116.6	114.1
75°	114.1	111.6	104.2	93.5	87.7
77.5°	90.1	90.1	79.4	76.1	77.7
80°	68.6	67.8	60.4	66.2	68.6
82.5°	47.1	45.5	48.8	51.3	52.1
85°	26.5	27.3	31.4	33.1	33.9
87.5°	10.8	13.2	14.1	15.7	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)