

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: P392791

Luminaire Tested: **12EN-LD2-17-UNV-L92765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392791  
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 (5000K)  
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: 1571.5 lumens  
Efficiency: N/A  
Efficacy: 101.4 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

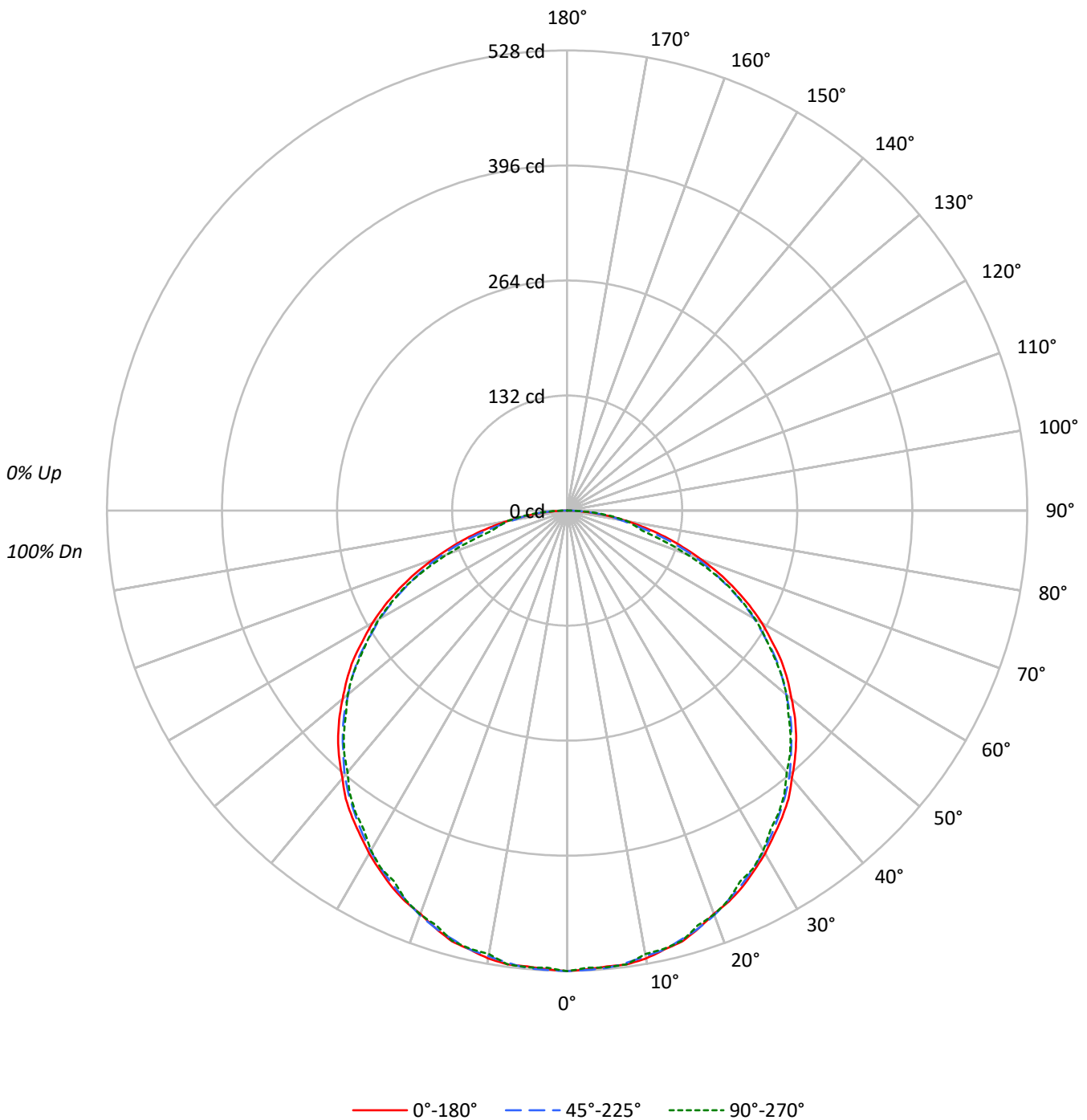
Input Watts (W): 15.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2844	2844	2844
5°	2837	2846	2842
10°	2852	2837	2824
15°	2851	2837	2846
20°	2820	2829	2824
25°	2828	2813	2788
30°	2823	2803	2797
35°	2825	2791	2780
40°	2819	2789	2753
45°	2829	2771	2758
50°	2816	2745	2752
55°	2816	2729	2705
60°	2776	2667	2686
65°	2705	2566	2586
70°	2573	2467	2282
75°	2418	2208	1857
80°	2170	1906	2170
85°	1667	1976	2137



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.0	3.2
10°-20°	143.7	9.1
20°-30°	218.4	13.9
30°-40°	266.3	16.9
40°-50°	281.8	17.9
50°-60°	260.9	16.6
60°-70°	202.3	12.9
70°-80°	113.0	7.2
80°-90°	35.0	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°	412.1	26.2
0°-40°	678.4	43.2
0°-60°	1221.1	77.7
0°-90°	1571.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1571.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	528	528	528	528	528	
5°	525	526	527	523	526	50
15°	512	510	509	509	511	144
25°	476	474	474	474	470	219
35°	430	429	425	421	423	269
45°	372	369	364	362	362	286
55°	300	297	291	288	288	267
65°	212	210	202	203	203	210
75°	116	114	106	95	89	122
85°	27	28	32	34	35	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	528.5	528.5	528.5	528.5	528.5
2.5°	526.8	526.8	527.7	530.2	525.1
5°	525.1	526.0	526.8	523.4	526.0
7.5°	525.1	523.4	523.4	523.4	525.1
10°	521.8	517.5	519.2	520.9	516.7
12.5°	515.9	515.9	515.9	512.5	515.0
15°	511.6	510.0	509.1	509.1	510.8
17.5°	502.4	500.7	502.4	502.4	499.0
20°	492.3	494.8	493.9	491.4	493.1
22.5°	485.5	485.5	483.8	483.0	483.8
25°	476.2	473.7	473.7	473.7	469.5
27.5°	465.3	464.4	462.8	459.4	462.8
30°	454.3	452.6	451.0	449.3	450.1
32.5°	441.7	440.0	438.3	438.3	434.1
35°	429.9	429.0	424.8	421.4	423.1
37.5°	417.2	413.9	411.3	408.8	409.6
40°	401.2	399.5	397.0	394.5	391.9
42.5°	386.9	386.0	380.1	377.6	378.5
45°	371.7	369.2	364.1	361.6	362.4
47.5°	354.9	352.3	347.3	345.6	343.9
50°	336.3	335.5	327.9	325.4	328.7
52.5°	318.6	316.1	310.2	307.7	310.2
55°	300.1	296.7	290.8	288.3	288.3
57.5°	278.2	276.5	268.0	266.4	268.9
60°	257.9	254.6	247.8	246.1	249.5
62.5°	236.0	232.6	225.1	225.9	226.7
65°	212.4	209.9	201.5	203.1	203.1
67.5°	188.8	185.4	178.7	176.2	175.3
70°	163.5	161.0	156.8	148.4	145.0
72.5°	139.1	137.4	132.3	118.8	116.3
75°	116.3	113.8	106.2	95.2	89.3
77.5°	91.9	91.9	80.9	77.5	79.2
80°	70.0	69.1	61.5	67.4	70.0
82.5°	48.0	46.4	49.7	52.3	53.1
85°	27.0	27.8	32.0	33.7	34.6
87.5°	11.0	13.5	14.3	16.0	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)