

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: P392775

Luminaire Tested: **12EN-LD2-17-UNV-L82765-W2A-1-U (5000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392775  
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 (5000K)  
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: 1790.3 lumens  
Efficiency: N/A  
Efficacy: 116.3 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

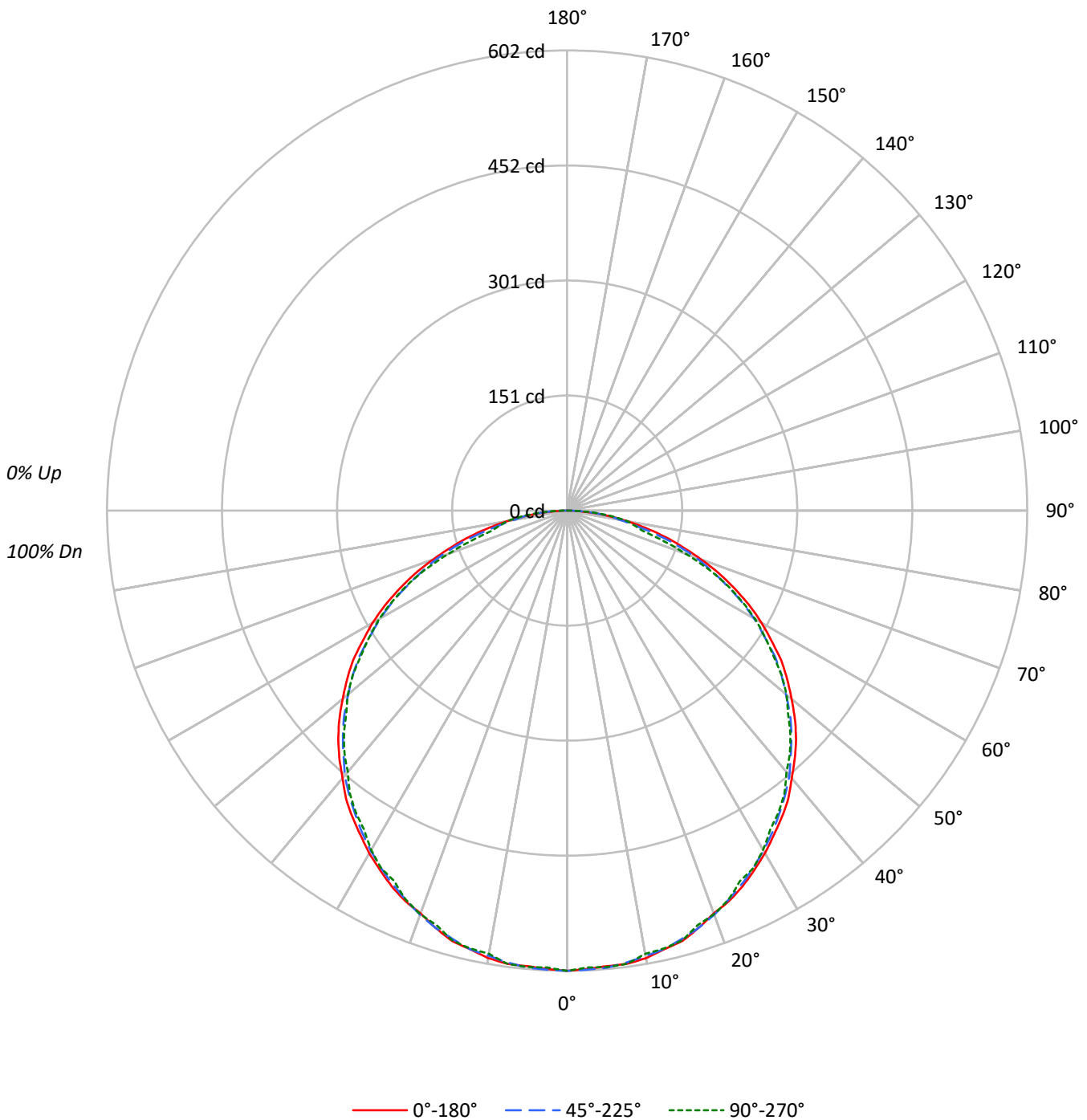
Input Watts (W): 15.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3240	3240	3240
5°	3232	3243	3237
10°	3248	3233	3217
15°	3248	3232	3242
20°	3212	3223	3218
25°	3222	3205	3176
30°	3217	3192	3187
35°	3217	3180	3167
40°	3211	3178	3137
45°	3223	3157	3143
50°	3208	3127	3136
55°	3208	3109	3081
60°	3162	3039	3059
65°	3082	2923	2947
70°	2932	2810	2600
75°	2755	2516	2117
80°	2470	2173	2470
85°	1896	2254	2433



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.0	3.2
10°-20°	163.7	9.1
20°-30°	248.8	13.9
30°-40°	303.4	16.9
40°-50°	321.1	17.9
50°-60°	297.2	16.6
60°-70°	230.5	12.9
70°-80°	128.7	7.2
80°-90°	39.9	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°	469.5	26.2
0°-40°	772.9	43.2
0°-60°	1391.2	77.7
0°-90°	1790.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1790.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	602	602	602	602	602	
5°	598	599	600	596	599	57
15°	583	581	580	580	582	164
25°	543	540	540	540	535	250
35°	490	489	484	480	482	306
45°	424	421	415	412	413	326
55°	342	338	331	328	328	304
65°	242	239	230	231	231	239
75°	132	130	121	108	102	139
85°	31	32	36	38	39	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	602.1	602.1	602.1	602.1	602.1
2.5°	600.2	600.2	601.1	604.0	598.2
5°	598.2	599.2	600.2	596.3	599.2
7.5°	598.2	596.3	596.3	596.3	598.2
10°	594.4	589.6	591.5	593.4	588.6
12.5°	587.7	587.7	587.7	583.8	586.7
15°	582.9	581.0	580.0	580.0	581.9
17.5°	572.3	570.4	572.3	572.3	568.5
20°	560.8	563.7	562.7	559.8	561.8
22.5°	553.1	553.1	551.2	550.2	551.2
25°	542.6	539.7	539.7	539.7	534.9
27.5°	530.1	529.1	527.2	523.3	527.2
30°	517.6	515.7	513.7	511.8	512.8
32.5°	503.2	501.3	499.3	499.3	494.5
35°	489.7	488.8	484.0	480.1	482.1
37.5°	475.3	471.5	468.6	465.7	466.7
40°	457.1	455.2	452.3	449.4	446.5
42.5°	440.8	439.8	433.1	430.2	431.2
45°	423.5	420.6	414.8	412.0	412.9
47.5°	404.3	401.4	395.6	393.7	391.8
50°	383.1	382.2	373.5	370.7	374.5
52.5°	363.0	360.1	353.4	350.5	353.4
55°	341.9	338.0	331.3	328.4	328.4
57.5°	316.9	315.0	305.4	303.4	306.3
60°	293.8	290.0	282.3	280.4	284.2
62.5°	268.9	265.0	256.4	257.4	258.3
65°	242.0	239.1	229.5	231.4	231.4
67.5°	215.1	211.3	203.6	200.7	199.7
70°	186.3	183.4	178.6	169.0	165.2
72.5°	158.4	156.5	150.8	135.4	132.5
75°	132.5	129.6	121.0	108.5	101.8
77.5°	104.7	104.7	92.2	88.3	90.3
80°	79.7	78.7	70.1	76.8	79.7
82.5°	54.7	52.8	56.7	59.5	60.5
85°	30.7	31.7	36.5	38.4	39.4
87.5°	12.5	15.4	16.3	18.2	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)