

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: P392773

Luminaire Tested: **12EN-LD2-17-UNV-L82765-W2A-1-U (4000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392773  
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 (4000K)  
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: 1741.6 lumens  
Efficiency: N/A  
Efficacy: 112.4 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

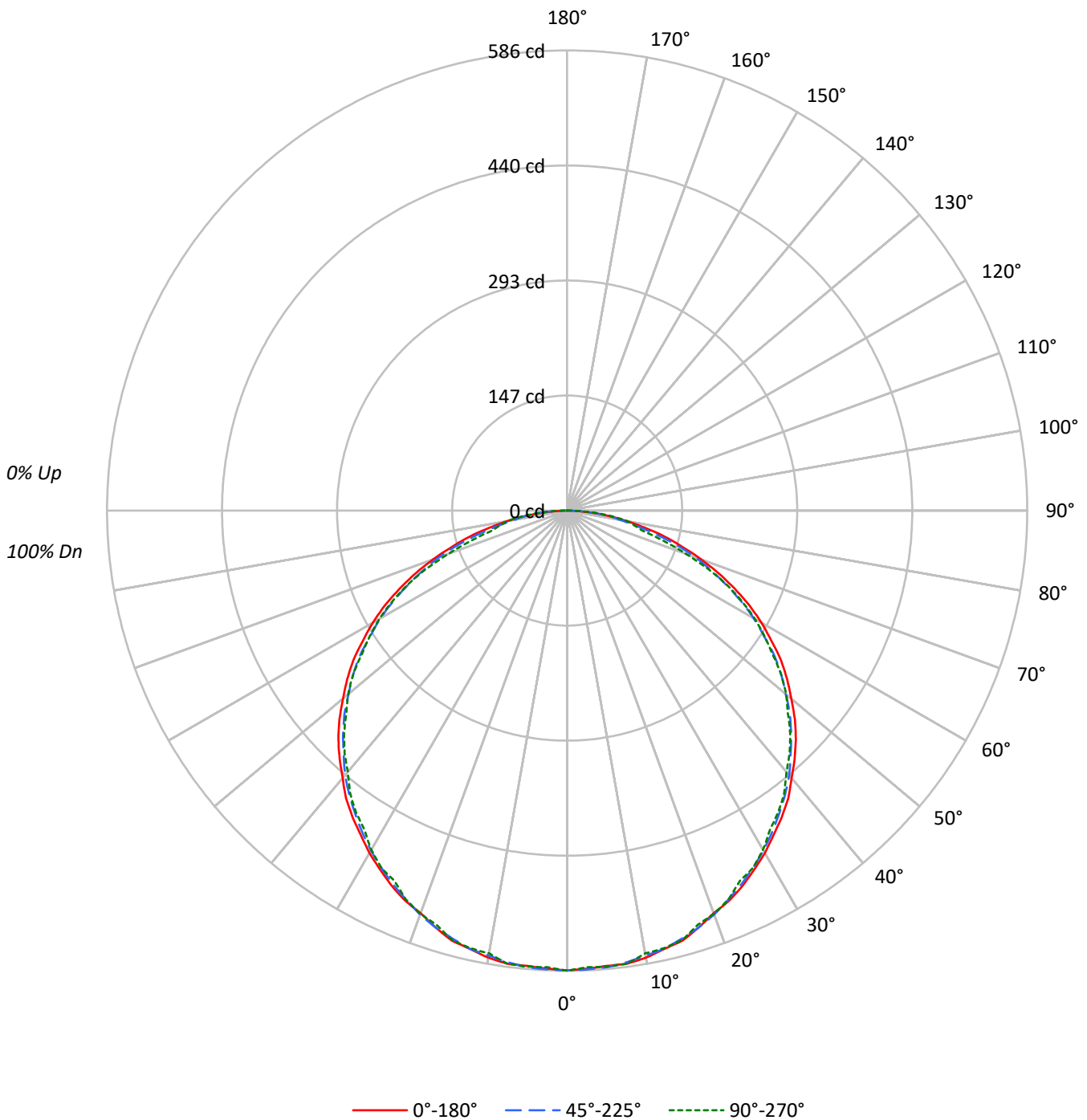
Input Watts (W): 15.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3152	3152	3152
5°	3144	3154	3149
10°	3160	3145	3129
15°	3159	3144	3154
20°	3124	3135	3130
25°	3134	3118	3090
30°	3129	3106	3100
35°	3130	3093	3081
40°	3124	3091	3052
45°	3136	3072	3057
50°	3121	3043	3050
55°	3121	3024	2998
60°	3076	2956	2976
65°	2998	2844	2867
70°	2851	2735	2529
75°	2680	2447	2059
80°	2402	2114	2402
85°	1846	2192	2365



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.4	3.2
10°-20°	159.2	9.1
20°-30°	242.1	13.9
30°-40°	295.2	16.9
40°-50°	312.4	17.9
50°-60°	289.1	16.6
60°-70°	224.2	12.9
70°-80°	125.2	7.2
80°-90°	38.8	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°	456.7	26.2
0°-40°	751.9	43.2
0°-60°	1353.3	77.7
0°-90°	1741.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1741.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	586	586	586	586	586	
5°	582	583	584	580	583	56
15°	567	565	564	564	566	160
25°	528	525	525	525	520	243
35°	476	476	471	467	469	298
45°	412	409	404	401	402	317
55°	333	329	322	320	320	296
65°	235	233	223	225	225	233
75°	129	126	118	106	99	136
85°	30	31	36	37	38	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	585.7	585.7	585.7	585.7	585.7
2.5°	583.8	583.8	584.8	587.6	582.0
5°	582.0	582.9	583.8	580.1	582.9
7.5°	582.0	580.1	580.1	580.1	582.0
10°	578.2	573.6	575.4	577.3	572.6
12.5°	571.7	571.7	571.7	568.0	570.8
15°	567.0	565.2	564.2	564.2	566.1
17.5°	556.8	554.9	556.8	556.8	553.0
20°	545.5	548.3	547.4	544.6	546.5
22.5°	538.1	538.1	536.2	535.3	536.2
25°	527.8	525.0	525.0	525.0	520.3
27.5°	515.6	514.7	512.8	509.1	512.8
30°	503.5	501.6	499.8	497.9	498.8
32.5°	489.5	487.6	485.8	485.8	481.1
35°	476.4	475.5	470.8	467.1	468.9
37.5°	462.4	458.7	455.9	453.1	454.0
40°	444.7	442.8	440.0	437.2	434.4
42.5°	428.8	427.8	421.3	418.5	419.4
45°	412.0	409.2	403.6	400.7	401.7
47.5°	393.3	390.5	384.9	383.0	381.1
50°	372.7	371.8	363.4	360.6	364.3
52.5°	353.1	350.3	343.8	341.0	343.8
55°	332.6	328.8	322.3	319.5	319.5
57.5°	308.3	306.4	297.1	295.2	298.0
60°	285.8	282.1	274.6	272.8	276.5
62.5°	261.6	257.8	249.4	250.4	251.3
65°	235.4	232.6	223.3	225.1	225.1
67.5°	209.2	205.5	198.0	195.2	194.3
70°	181.2	178.4	173.8	164.4	160.7
72.5°	154.1	152.3	146.7	131.7	128.9
75°	128.9	126.1	117.7	105.6	99.0
77.5°	101.8	101.8	89.7	85.9	87.8
80°	77.5	76.6	68.2	74.7	77.5
82.5°	53.2	51.4	55.1	57.9	58.9
85°	29.9	30.8	35.5	37.4	38.3
87.5°	12.1	14.9	15.9	17.7	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)