

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: P392771

Luminaire Tested: **12EN-LD2-17-UNV-L82765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392771  
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 (3000K)  
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: 1710.1 lumens  
Efficiency: N/A  
Efficacy: 110.3 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

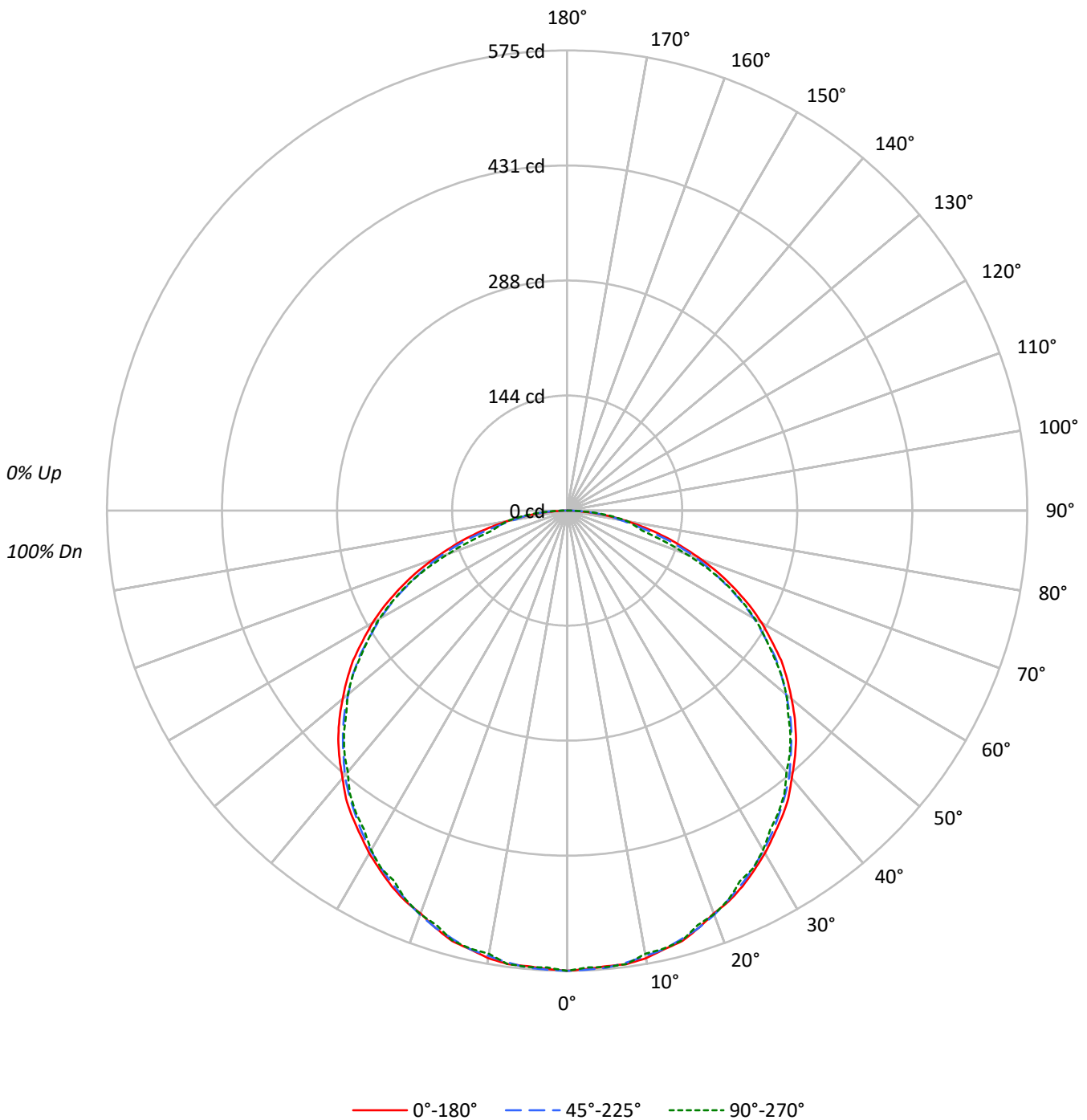
Input Watts (W): 15.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3095	3095	3095
5°	3087	3097	3092
10°	3103	3088	3073
15°	3102	3087	3097
20°	3068	3078	3073
25°	3077	3061	3034
30°	3072	3049	3044
35°	3074	3037	3025
40°	3067	3035	2996
45°	3079	3016	3002
50°	3064	2987	2995
55°	3064	2969	2943
60°	3021	2903	2922
65°	2943	2791	2814
70°	2799	2685	2483
75°	2633	2404	2021
80°	2359	2077	2359
85°	1815	2155	2322



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.4	3.2
10°-20°	156.3	9.1
20°-30°	237.7	13.9
30°-40°	289.8	16.9
40°-50°	306.7	17.9
50°-60°	283.9	16.6
60°-70°	220.2	12.9
70°-80°	123.0	7.2
80°-90°	38.1	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°	448.4	26.2
0°-40°	738.3	43.2
0°-60°	1328.8	77.7
0°-90°	1710.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1710.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	575	575	575	575	575	
5°	571	572	573	570	572	55
15°	557	555	554	554	556	157
25°	518	516	516	516	511	239
35°	468	467	462	459	460	293
45°	404	402	396	394	394	312
55°	326	323	316	314	314	291
65°	231	228	219	221	221	228
75°	127	124	116	104	97	133
85°	29	30	35	37	38	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	575.1	575.1	575.1	575.1	575.1
2.5°	573.3	573.3	574.2	576.9	571.4
5°	571.4	572.3	573.3	569.6	572.3
7.5°	571.4	569.6	569.6	569.6	571.4
10°	567.8	563.2	565.0	566.8	562.3
12.5°	561.3	561.3	561.3	557.7	560.4
15°	556.8	554.9	554.0	554.0	555.8
17.5°	546.7	544.8	546.7	546.7	543.0
20°	535.7	538.4	537.5	534.7	536.6
22.5°	528.3	528.3	526.5	525.6	526.5
25°	518.2	515.5	515.5	515.5	510.9
27.5°	506.3	505.4	503.6	499.9	503.6
30°	494.4	492.5	490.7	488.9	489.8
32.5°	480.6	478.8	477.0	477.0	472.4
35°	467.8	466.9	462.3	458.6	460.4
37.5°	454.0	450.4	447.6	444.9	445.8
40°	436.6	434.8	432.0	429.3	426.5
42.5°	421.0	420.1	413.7	410.9	411.8
45°	404.5	401.7	396.2	393.5	394.4
47.5°	386.1	383.4	377.9	376.1	374.2
50°	366.0	365.1	356.8	354.0	357.7
52.5°	346.7	344.0	337.5	334.8	337.5
55°	326.5	322.9	316.4	313.7	313.7
57.5°	302.7	300.8	291.7	289.8	292.6
60°	280.7	277.0	269.7	267.8	271.5
62.5°	256.8	253.2	244.9	245.8	246.7
65°	231.1	228.4	219.2	221.0	221.0
67.5°	205.5	201.8	194.5	191.7	190.8
70°	177.9	175.2	170.6	161.4	157.8
72.5°	151.3	149.5	144.0	129.3	126.6
75°	126.6	123.8	115.6	103.6	97.2
77.5°	100.0	100.0	88.1	84.4	86.2
80°	76.1	75.2	67.0	73.4	76.1
82.5°	52.3	50.4	54.1	56.9	57.8
85°	29.4	30.3	34.9	36.7	37.6
87.5°	11.9	14.7	15.6	17.4	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)