

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: P392779

Luminaire Tested: **12EN-LD2-17-UNV-L83050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392779  
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-L83050-W2A-1-U (3000K)  
Description: 1X2 ENCOUNTER, 1700 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1834.5 lumens  
Efficiency: N/A  
Efficacy: 116.8 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

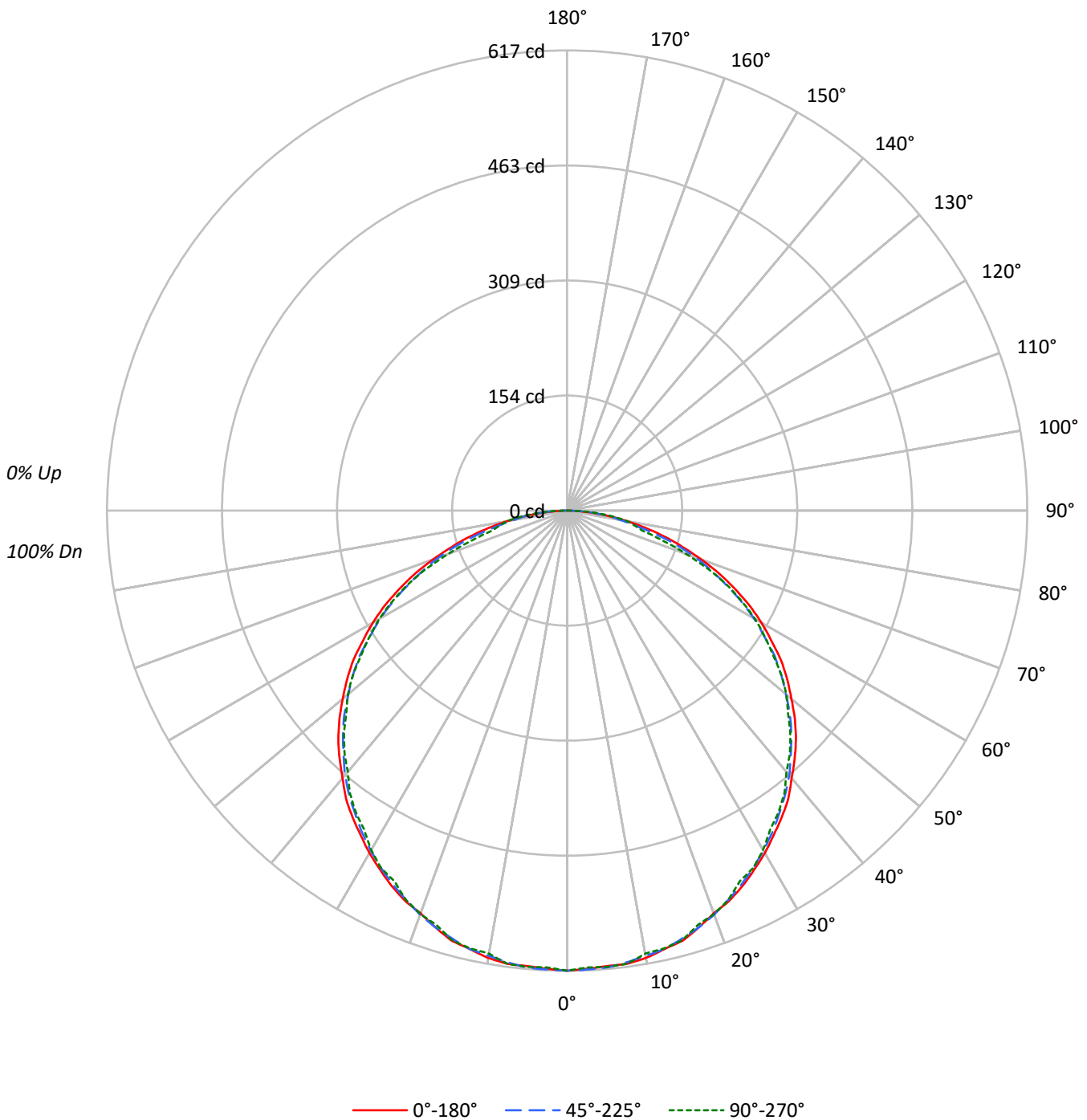
Input Watts (W): 15.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3320	3320	3320
5°	3312	3323	3317
10°	3329	3312	3296
15°	3328	3311	3322
20°	3291	3302	3297
25°	3301	3284	3255
30°	3296	3271	3265
35°	3297	3258	3245
40°	3291	3256	3214
45°	3303	3236	3220
50°	3287	3205	3213
55°	3287	3186	3157
60°	3241	3114	3134
65°	3158	2995	3019
70°	3004	2880	2662
75°	2824	2578	2169
80°	2532	2225	2532
85°	1945	2309	2489



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.4	3.2
10°-20°	167.7	9.1
20°-30°	255.0	13.9
30°-40°	310.9	16.9
40°-50°	329.0	17.9
50°-60°	304.5	16.6
60°-70°	236.2	12.9
70°-80°	131.9	7.2
80°-90°	40.9	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°	481.1	26.2
0°-40°	792.0	43.2
0°-60°	1425.5	77.7
0°-90°	1834.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1834.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	617	617	617	617	617	
5°	613	614	615	611	614	58
15°	597	595	594	594	596	168
25°	556	553	553	553	548	256
35°	502	501	496	492	494	314
45°	434	431	425	422	423	334
55°	350	346	340	336	336	312
65°	248	245	235	237	237	245
75°	136	133	124	111	104	143
85°	32	32	37	39	40	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	616.9	616.9	616.9	616.9	616.9
2.5°	615.0	615.0	616.0	618.9	613.0
5°	613.0	614.0	615.0	611.0	614.0
7.5°	613.0	611.0	611.0	611.0	613.0
10°	609.1	604.1	606.1	608.1	603.2
12.5°	602.2	602.2	602.2	598.2	601.2
15°	597.3	595.3	594.3	594.3	596.3
17.5°	586.4	584.5	586.4	586.4	582.5
20°	574.6	577.6	576.6	573.6	575.6
22.5°	566.8	566.8	564.8	563.8	564.8
25°	555.9	553.0	553.0	553.0	548.1
27.5°	543.1	542.2	540.2	536.3	540.2
30°	530.3	528.4	526.4	524.4	525.4
32.5°	515.6	513.6	511.7	511.7	506.7
35°	501.8	500.8	495.9	492.0	493.9
37.5°	487.1	483.1	480.2	477.2	478.2
40°	468.4	466.4	463.4	460.5	457.5
42.5°	451.6	450.6	443.8	440.8	441.8
45°	433.9	431.0	425.1	422.1	423.1
47.5°	414.2	411.3	405.4	403.4	401.5
50°	392.6	391.6	382.8	379.8	383.7
52.5°	371.9	369.0	362.1	359.1	362.1
55°	350.3	346.3	339.5	336.5	336.5
57.5°	324.7	322.7	312.9	310.9	313.9
60°	301.1	297.2	289.3	287.3	291.2
62.5°	275.5	271.6	262.7	263.7	264.7
65°	248.0	245.0	235.2	237.1	237.1
67.5°	220.4	216.5	208.6	205.6	204.7
70°	190.9	187.9	183.0	173.2	169.2
72.5°	162.4	160.4	154.5	138.7	135.8
75°	135.8	132.8	124.0	111.2	104.3
77.5°	107.3	107.3	94.5	90.5	92.5
80°	81.7	80.7	71.8	78.7	81.7
82.5°	56.1	54.1	58.1	61.0	62.0
85°	31.5	32.5	37.4	39.4	40.3
87.5°	12.8	15.7	16.7	18.7	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)