

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: P392797

Luminaire Tested: **12EN-LD2-17-UNV-L93050-W2A-1-U (4000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392797  
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-L93050-W2A-1-U (4000K)  
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: 1628.6 lumens  
Efficiency: N/A  
Efficacy: 105.8 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

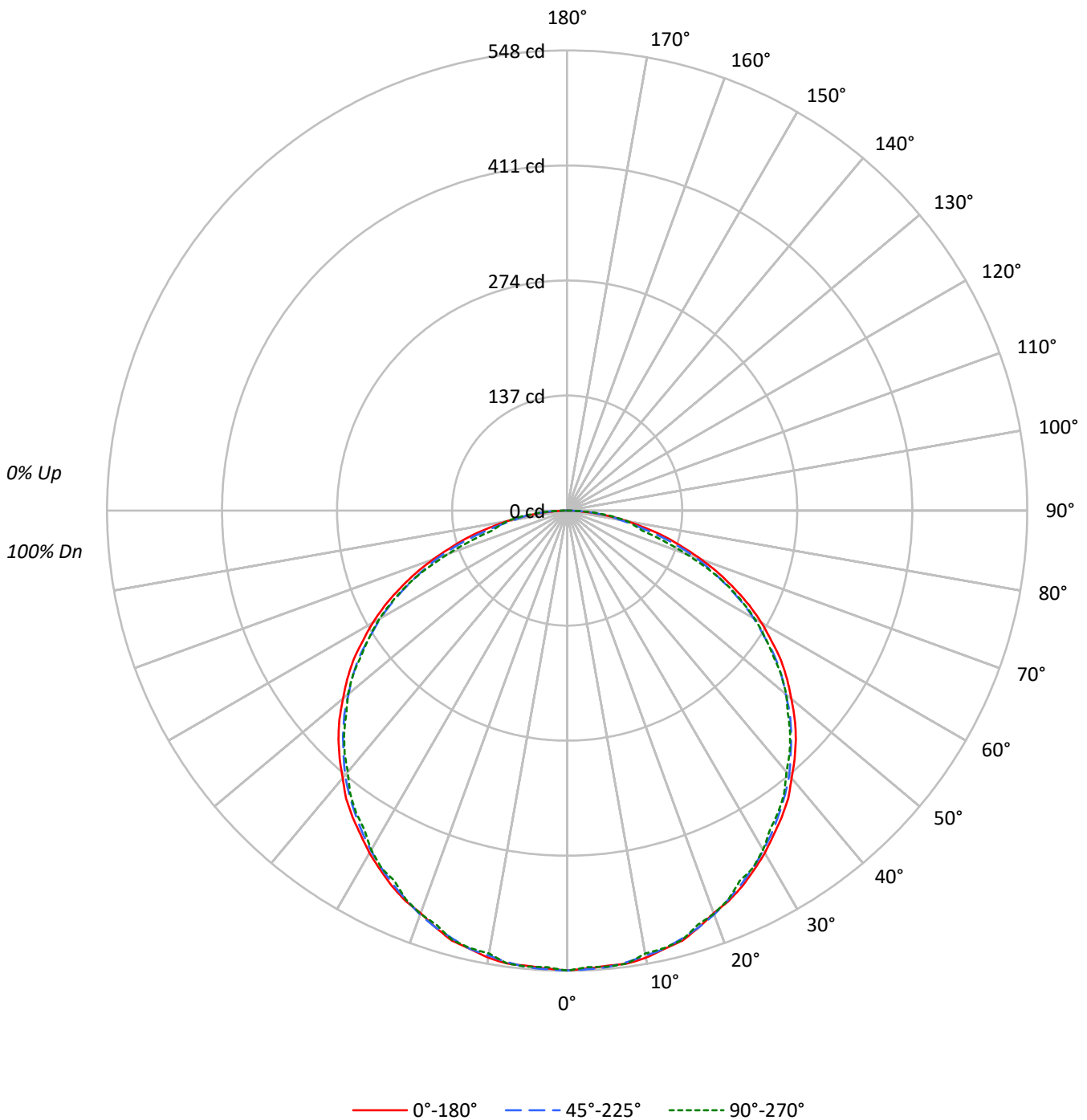
Input Watts (W): 15.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2948	2948	2948
5°	2940	2949	2945
10°	2955	2941	2926
15°	2954	2940	2949
20°	2922	2932	2927
25°	2931	2915	2889
30°	2926	2904	2899
35°	2927	2892	2881
40°	2921	2890	2854
45°	2932	2872	2859
50°	2918	2845	2853
55°	2918	2828	2803
60°	2877	2764	2784
65°	2803	2659	2681
70°	2667	2557	2364
75°	2506	2289	1926
80°	2247	1977	2247
85°	1729	2050	2211



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.8	3.2
10°-20°	148.9	9.1
20°-30°	226.4	13.9
30°-40°	276.0	16.9
40°-50°	292.1	17.9
50°-60°	270.3	16.6
60°-70°	209.7	12.9
70°-80°	117.1	7.2
80°-90°	36.3	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°	427.1	26.2
0°-40°	703.1	43.2
0°-60°	1265.5	77.7
0°-90°	1628.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1628.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	548	548	548	548	548	
5°	544	545	546	542	545	52
15°	530	528	528	528	529	149
25°	494	491	491	491	486	227
35°	446	445	440	437	438	279
45°	385	383	377	375	376	297
55°	311	308	301	299	299	277
65°	220	218	209	210	210	217
75°	120	118	110	99	93	127
85°	28	29	33	35	36	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	547.7	547.7	547.7	547.7	547.7
2.5°	545.9	545.9	546.8	549.4	544.2
5°	544.2	545.1	545.9	542.4	545.1
7.5°	544.2	542.4	542.4	542.4	544.2
10°	540.7	536.3	538.1	539.8	535.5
12.5°	534.6	534.6	534.6	531.1	533.7
15°	530.2	528.5	527.6	527.6	529.3
17.5°	520.6	518.9	520.6	520.6	517.1
20°	510.1	512.7	511.9	509.3	511.0
22.5°	503.1	503.1	501.4	500.5	501.4
25°	493.5	490.9	490.9	490.9	486.5
27.5°	482.2	481.3	479.6	476.1	479.6
30°	470.8	469.1	467.3	465.6	466.5
32.5°	457.7	456.0	454.2	454.2	449.9
35°	445.5	444.6	440.2	436.8	438.5
37.5°	432.4	428.9	426.3	423.7	424.5
40°	415.8	414.0	411.4	408.8	406.2
42.5°	400.9	400.1	394.0	391.3	392.2
45°	385.2	382.6	377.4	374.7	375.6
47.5°	367.7	365.1	359.9	358.1	356.4
50°	348.5	347.7	339.8	337.2	340.7
52.5°	330.2	327.6	321.5	318.8	321.5
55°	311.0	307.5	301.4	298.7	298.7
57.5°	288.3	286.5	277.8	276.0	278.6
60°	267.3	263.8	256.8	255.1	258.6
62.5°	244.6	241.1	233.2	234.1	235.0
65°	220.1	217.5	208.8	210.5	210.5
67.5°	195.7	192.2	185.2	182.6	181.7
70°	169.5	166.8	162.5	153.7	150.2
72.5°	144.1	142.4	137.1	123.2	120.5
75°	120.5	117.9	110.1	98.7	92.6
77.5°	95.2	95.2	83.9	80.4	82.1
80°	72.5	71.6	63.8	69.9	72.5
82.5°	49.8	48.0	51.5	54.2	55.0
85°	28.0	28.8	33.2	34.9	35.8
87.5°	11.4	14.0	14.8	16.6	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)