

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: P392795

Luminaire Tested: **12EN-LD2-17-UNV-L93050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392795  
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 (3000K)  
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: 1532.0 lumens  
Efficiency: N/A  
Efficacy: 98.8 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

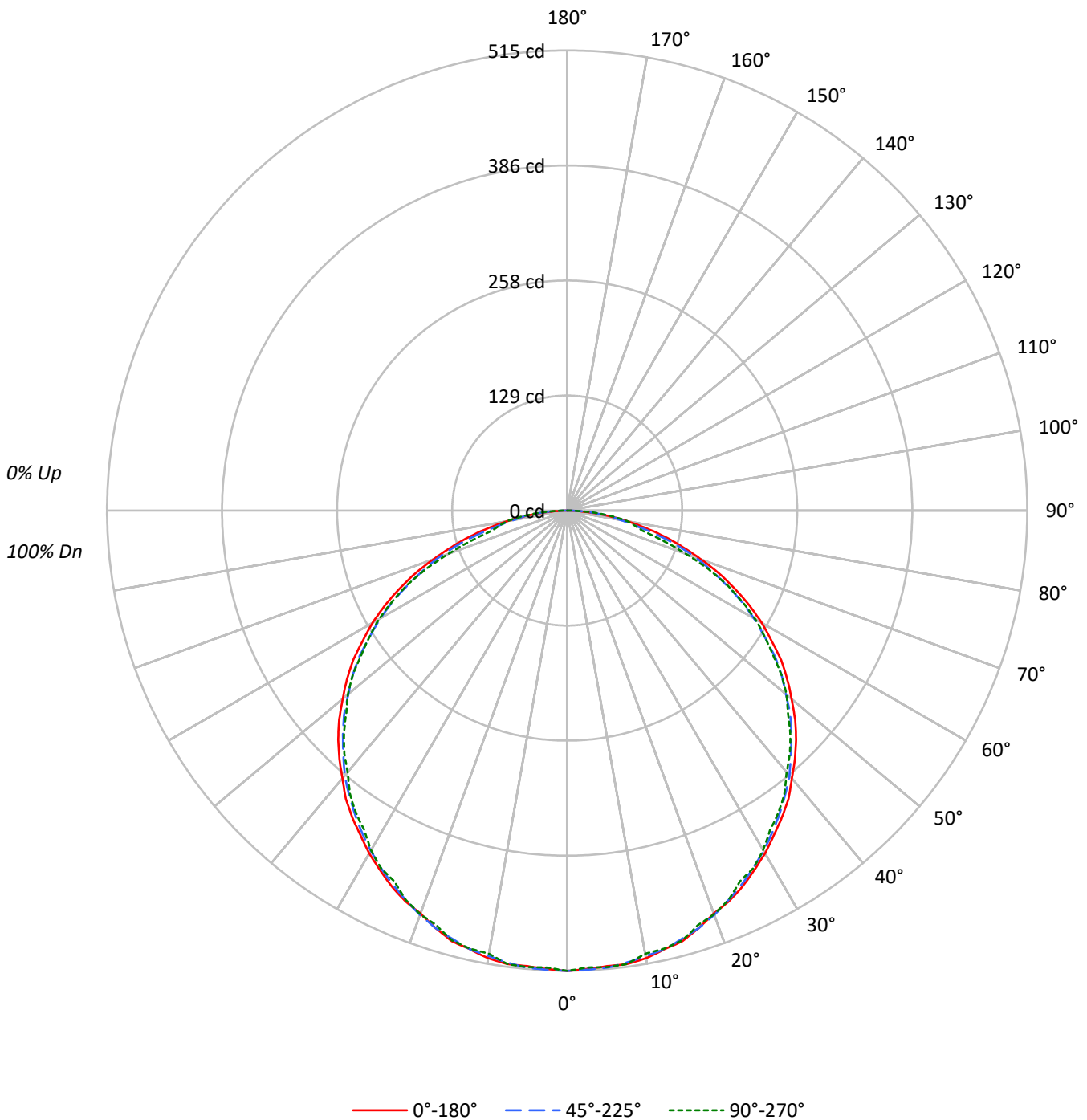
Input Watts (W): 15.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	36	29	25	23					23			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2773	2773	2773
5°	2766	2775	2770
10°	2780	2766	2753
15°	2779	2765	2775
20°	2749	2758	2753
25°	2757	2742	2718
30°	2752	2732	2727
35°	2754	2721	2710
40°	2748	2719	2684
45°	2758	2702	2689
50°	2745	2677	2683
55°	2745	2660	2637
60°	2707	2601	2618
65°	2637	2501	2521
70°	2508	2404	2223
75°	2358	2152	1811
80°	2114	1860	2114
85°	1624	1927	2081



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.8	3.2
10°-20°	140.1	9.1
20°-30°	212.9	13.9
30°-40°	259.6	16.9
40°-50°	274.8	17.9
50°-60°	254.3	16.6
60°-70°	197.2	12.9
70°-80°	110.2	7.2
80°-90°	34.1	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°	401.7	26.2
0°-40°	661.4	43.2
0°-60°	1190.5	77.7
0°-90°	1532.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1532.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	515	515	515	515	515	
5°	512	513	514	510	513	49
15°	499	497	496	496	498	140
25°	464	462	462	462	458	214
35°	419	418	414	411	412	262
45°	362	360	355	352	353	279
55°	292	289	284	281	281	260
65°	207	205	196	198	198	205
75°	113	111	104	93	87	119
85°	26	27	31	33	34	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	515.2	515.2	515.2	515.2	515.2
2.5°	513.6	513.6	514.4	516.9	511.9
5°	511.9	512.8	513.6	510.3	512.8
7.5°	511.9	510.3	510.3	510.3	511.9
10°	508.7	504.6	506.2	507.8	503.7
12.5°	502.9	502.9	502.9	499.6	502.1
15°	498.8	497.2	496.3	496.3	498.0
17.5°	489.8	488.1	489.8	489.8	486.5
20°	479.9	482.4	481.5	479.1	480.7
22.5°	473.3	473.3	471.7	470.9	471.7
25°	464.3	461.8	461.8	461.8	457.7
27.5°	453.6	452.8	451.1	447.8	451.1
30°	442.9	441.3	439.6	438.0	438.8
32.5°	430.6	428.9	427.3	427.3	423.2
35°	419.1	418.3	414.2	410.9	412.5
37.5°	406.8	403.5	401.0	398.5	399.4
40°	391.1	389.5	387.0	384.6	382.1
42.5°	377.2	376.4	370.6	368.1	369.0
45°	362.4	359.9	355.0	352.5	353.3
47.5°	346.0	343.5	338.6	336.9	335.3
50°	327.9	327.1	319.7	317.2	320.5
52.5°	310.6	308.2	302.4	299.9	302.4
55°	292.5	289.3	283.5	281.0	281.0
57.5°	271.2	269.5	261.3	259.7	262.1
60°	251.5	248.2	241.6	239.9	243.2
62.5°	230.1	226.8	219.4	220.2	221.0
65°	207.1	204.6	196.4	198.0	198.0
67.5°	184.1	180.8	174.2	171.7	170.9
70°	159.4	157.0	152.8	144.6	141.3
72.5°	135.6	133.9	129.0	115.9	113.4
75°	113.4	110.9	103.5	92.9	87.1
77.5°	89.6	89.6	78.9	75.6	77.2
80°	68.2	67.4	60.0	65.7	68.2
82.5°	46.8	45.2	48.5	50.9	51.8
85°	26.3	27.1	31.2	32.9	33.7
87.5°	10.7	13.1	14.0	15.6	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)