

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: P392790

Luminaire Tested: **12EN-LD2-17-UNV-L92765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392790  
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-L92765-W2A-1-U (4500K)  
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: 1531.6 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

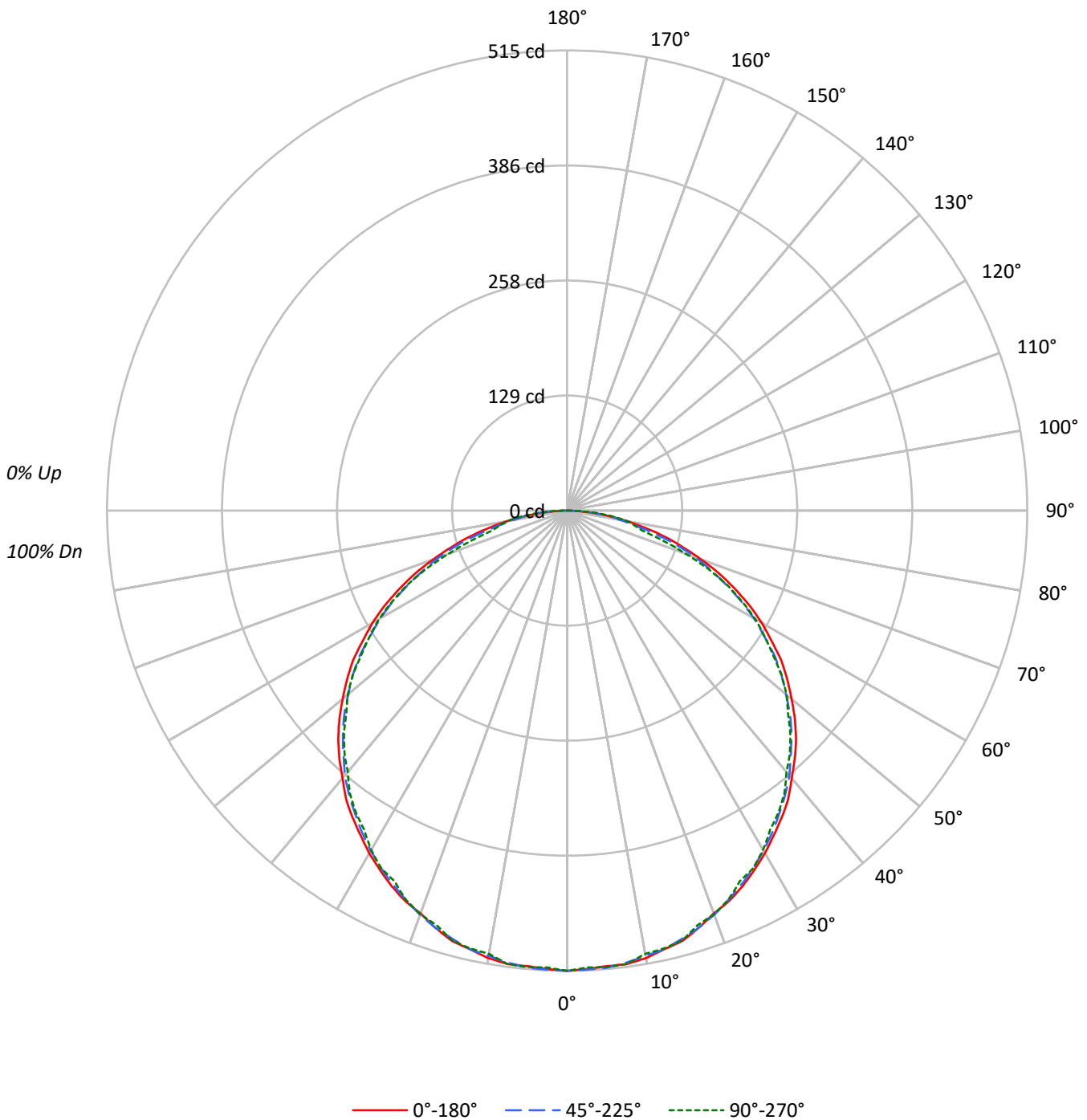
Input Watts (W): 15.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2772	2772	2772
5°	2765	2774	2769
10°	2779	2765	2752
15°	2778	2765	2774
20°	2748	2757	2753
25°	2756	2742	2717
30°	2752	2731	2726
35°	2753	2720	2710
40°	2747	2718	2684
45°	2758	2701	2688
50°	2745	2676	2683
55°	2745	2659	2636
60°	2706	2599	2618
65°	2636	2500	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°	48.7	3.2
10°-20°	140.0	9.1
20°-30°	212.9	13.9
30°-40°	259.6	16.9
40°-50°	274.7	17.9
50°-60°	254.2	16.6
60°-70°	197.2	12.9
70°-80°	110.1	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°	401.6	26.2
0°-40°	661.2	43.2
0°-60°	1190.1	77.7
0°-90°	1531.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1531.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	515	515	515	515	515	
5°	512	513	513	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	283	281	281	260
65°	207	205	196	198	198	204
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°	515.1	515.1	515.1	515.1	515.1
2.5°	513.4	513.4	514.3	516.7	511.8
5°	511.8	512.6	513.4	510.1	512.6
7.5°	511.8	510.1	510.1	510.1	511.8
10°	508.5	504.4	506.0	507.7	503.6
12.5°	502.8	502.8	502.8	499.5	501.9
15°	498.6	497.0	496.2	496.2	497.8
17.5°	489.6	488.0	489.6	489.6	486.3
20°	479.8	482.2	481.4	478.9	480.6
22.5°	473.2	473.2	471.5	470.7	471.5
25°	464.1	461.7	461.7	461.7	457.6
27.5°	453.5	452.6	451.0	447.7	451.0
30°	442.8	441.1	439.5	437.9	438.7
32.5°	430.5	428.8	427.2	427.2	423.1
35°	419.0	418.1	414.0	410.7	412.4
37.5°	406.6	403.4	400.9	398.4	399.2
40°	391.0	389.4	386.9	384.5	382.0
42.5°	377.1	376.2	370.5	368.0	368.8
45°	362.3	359.8	354.9	352.4	353.2
47.5°	345.8	343.4	338.5	336.8	335.2
50°	327.8	327.0	319.6	317.1	320.4
52.5°	310.5	308.1	302.3	299.8	302.3
55°	292.5	289.2	283.4	280.9	280.9
57.5°	271.1	269.4	261.2	259.6	262.1
60°	251.4	248.1	241.5	239.9	243.2
62.5°	230.0	226.7	219.3	220.2	221.0
65°	207.0	204.6	196.3	198.0	198.0
67.5°	184.0	180.7	174.2	171.7	170.9
70°	159.4	156.9	152.8	144.6	141.3
72.5°	135.5	133.9	129.0	115.8	113.4
75°	113.4	110.9	103.5	92.8	87.1
77.5°	89.5	89.5	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)