

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: P392788

Luminaire Tested: **12EN-LD2-17-UNV-L92765-W2A-1-U (3500K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P392788
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 (3500K)
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: 1476.5 lumens
Efficiency: N/A
Efficacy: 95.3 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

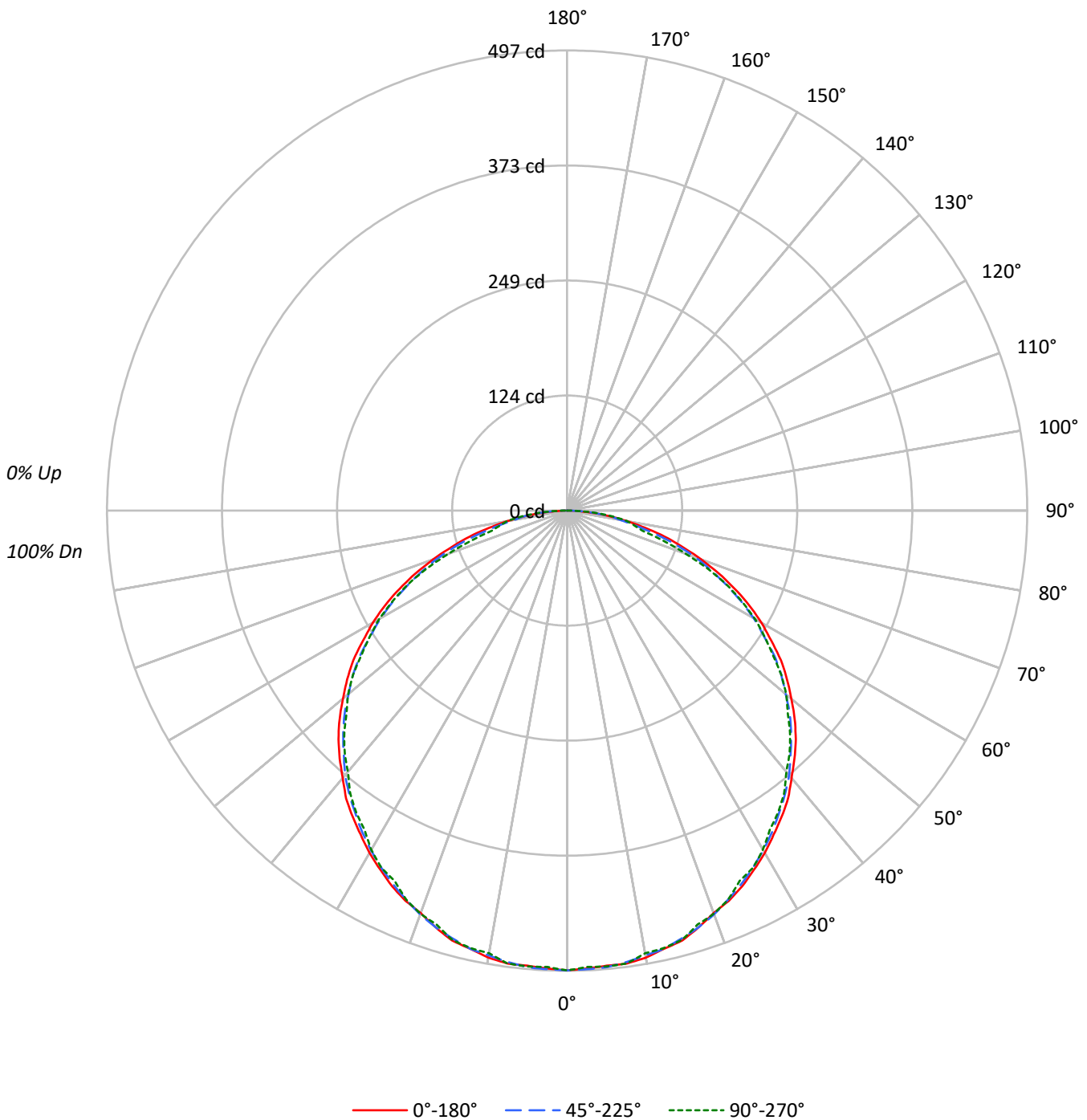
Input Watts (W): 15.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2673	2673	2673
5°	2666	2674	2670
10°	2679	2666	2653
15°	2678	2665	2674
20°	2649	2658	2653
25°	2657	2643	2619
30°	2653	2633	2628
35°	2654	2622	2612
40°	2649	2621	2588
45°	2659	2604	2592
50°	2646	2580	2586
55°	2645	2563	2541
60°	2608	2506	2523
65°	2542	2411	2431
70°	2417	2318	2143
75°	2273	2075	1745
80°	2036	1791	2036
85°	1562	1859	2007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.0	3.2
10°-20°	135.0	9.1
20°-30°	205.2	13.9
30°-40°	250.2	16.9
40°-50°	264.8	17.9
50°-60°	245.1	16.6
60°-70°	190.1	12.9
70°-80°	106.2	7.2
80°-90°	32.9	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°	387.2	26.2
0°-40°	637.4	43.2
0°-60°	1147.3	77.7
0°-90°	1476.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1476.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	497	497	497	497	497	
5°	493	494	495	492	494	47
15°	481	479	478	478	480	135
25°	448	445	445	445	441	206
35°	404	403	399	396	398	253
45°	349	347	342	340	340	269
55°	282	279	273	271	271	251
65°	200	197	189	191	191	197
75°	109	107	100	90	84	115
85°	25	26	30	32	32	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	496.6	496.6	496.6	496.6	496.6
2.5°	495.0	495.0	495.8	498.1	493.4
5°	493.4	494.2	495.0	491.8	494.2
7.5°	493.4	491.8	491.8	491.8	493.4
10°	490.2	486.3	487.8	489.4	485.5
12.5°	484.7	484.7	484.7	481.5	483.9
15°	480.7	479.1	478.3	478.3	479.9
17.5°	472.0	470.4	472.0	472.0	468.8
20°	462.5	464.9	464.1	461.7	463.3
22.5°	456.2	456.2	454.6	453.8	454.6
25°	447.5	445.1	445.1	445.1	441.1
27.5°	437.2	436.4	434.8	431.6	434.8
30°	426.9	425.3	423.7	422.1	422.9
32.5°	415.0	413.4	411.8	411.8	407.9
35°	403.9	403.1	399.1	396.0	397.6
37.5°	392.0	388.8	386.5	384.1	384.9
40°	377.0	375.4	373.0	370.6	368.3
42.5°	363.5	362.7	357.2	354.8	355.6
45°	349.3	346.9	342.1	339.7	340.5
47.5°	333.4	331.0	326.3	324.7	323.1
50°	316.0	315.2	308.1	305.7	308.9
52.5°	299.4	297.0	291.4	289.1	291.4
55°	281.9	278.8	273.2	270.8	270.8
57.5°	261.3	259.8	251.8	250.3	252.6
60°	242.3	239.2	232.8	231.3	234.4
62.5°	221.7	218.6	211.5	212.2	213.0
65°	199.6	197.2	189.3	190.9	190.9
67.5°	177.4	174.2	167.9	165.5	164.7
70°	153.6	151.3	147.3	139.4	136.2
72.5°	130.7	129.1	124.3	111.7	109.3
75°	109.3	106.9	99.8	89.5	83.9
77.5°	86.3	86.3	76.0	72.9	74.4
80°	65.7	64.9	57.8	63.4	65.7
82.5°	45.1	43.6	46.7	49.1	49.9
85°	25.3	26.1	30.1	31.7	32.5
87.5°	10.3	12.7	13.5	15.0	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)