

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: P392786

Luminaire Tested: **12EN-LD2-17-UNV-L92765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P392786  
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 (2700K)  
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: 1399.2 lumens  
Efficiency: N/A  
Efficacy: 90.9 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

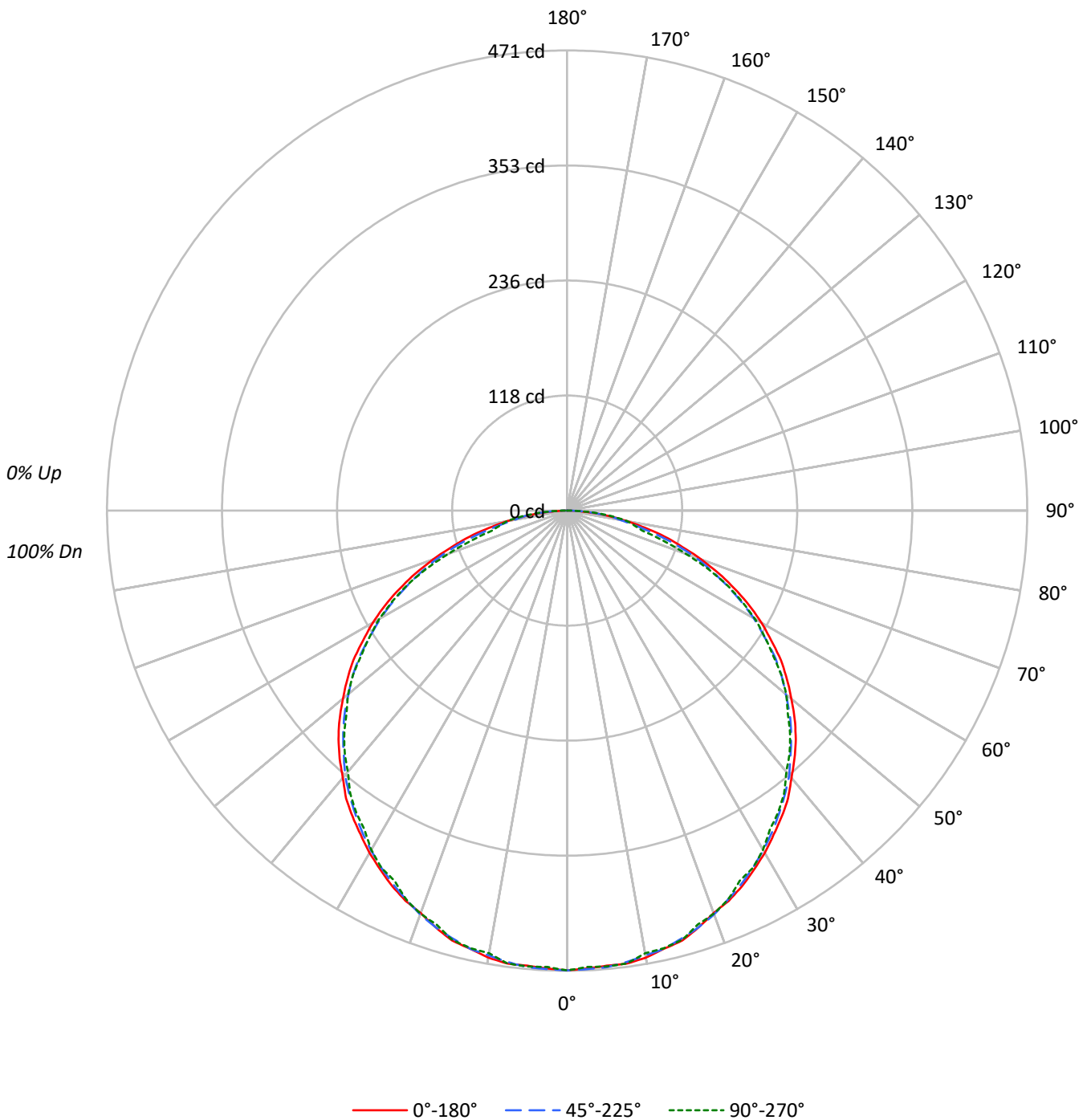
Input Watts (W): 15.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2533	2533	2533
5°	2526	2534	2530
10°	2539	2526	2514
15°	2539	2526	2534
20°	2510	2519	2514
25°	2518	2505	2482
30°	2514	2495	2491
35°	2515	2485	2476
40°	2510	2484	2452
45°	2519	2468	2456
50°	2508	2444	2451
55°	2507	2429	2409
60°	2472	2375	2391
65°	2408	2285	2304
70°	2291	2197	2031
75°	2154	1967	1655
80°	1931	1698	1931
85°	1482	1760	1902



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.5	3.2
10°-20°	127.9	9.1
20°-30°	194.5	13.9
30°-40°	237.1	16.9
40°-50°	251.0	17.9
50°-60°	232.3	16.6
60°-70°	180.1	12.9
70°-80°	100.6	7.2
80°-90°	31.2	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°	366.9	26.2
0°-40°	604.1	43.2
0°-60°	1087.3	77.7
0°-90°	1399.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1399.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	471	471	471	471	471	
5°	468	468	469	466	468	45
15°	456	454	453	453	455	128
25°	424	422	422	422	418	195
35°	383	382	378	375	377	239
45°	331	329	324	322	323	255
55°	267	264	259	257	257	238
65°	189	187	179	181	181	187
75°	104	101	95	85	80	109
85°	24	25	28	30	31	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	470.6	470.6	470.6	470.6	470.6
2.5°	469.1	469.1	469.8	472.1	467.6
5°	467.6	468.3	469.1	466.1	468.3
7.5°	467.6	466.1	466.1	466.1	467.6
10°	464.6	460.8	462.3	463.8	460.1
12.5°	459.3	459.3	459.3	456.3	458.6
15°	455.6	454.1	453.3	453.3	454.8
17.5°	447.3	445.8	447.3	447.3	444.3
20°	438.3	440.5	439.8	437.5	439.0
22.5°	432.3	432.3	430.8	430.0	430.8
25°	424.0	421.8	421.8	421.8	418.0
27.5°	414.3	413.5	412.0	409.0	412.0
30°	404.5	403.0	401.5	400.0	400.8
32.5°	393.3	391.8	390.3	390.3	386.5
35°	382.8	382.0	378.3	375.3	376.8
37.5°	371.5	368.5	366.2	364.0	364.7
40°	357.2	355.7	353.5	351.2	349.0
42.5°	344.5	343.7	338.5	336.2	337.0
45°	331.0	328.7	324.2	322.0	322.7
47.5°	316.0	313.7	309.2	307.7	306.2
50°	299.5	298.7	291.9	289.7	292.7
52.5°	283.7	281.4	276.2	273.9	276.2
55°	267.2	264.2	258.9	256.7	256.7
57.5°	247.7	246.2	238.7	237.2	239.4
60°	229.7	226.7	220.6	219.1	222.1
62.5°	210.1	207.1	200.4	201.1	201.9
65°	189.1	186.9	179.4	180.9	180.9
67.5°	168.1	165.1	159.1	156.9	156.1
70°	145.6	143.3	139.6	132.1	129.1
72.5°	123.8	122.3	117.8	105.8	103.6
75°	103.6	101.3	94.6	84.8	79.6
77.5°	81.8	81.8	72.0	69.0	70.5
80°	62.3	61.5	54.8	60.0	62.3
82.5°	42.8	41.3	44.3	46.5	47.3
85°	24.0	24.8	28.5	30.0	30.8
87.5°	9.8	12.0	12.8	14.3	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)