

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: P393247

Luminaire Tested: **22EN-LD2-19-UNV-L93050-W2A-1-U (5000K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393247  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22EN-LD2-19-UNV-L93050-W2A-1-U (5000K)  
Description: 2X2 ENCOUNTER, 1900 LUMENS, VIVIDTUNE TUNABLE WHITE  
Light Source: 2700K/6500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1954.3 lumens  
Efficiency: N/A  
Efficacy: 124.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

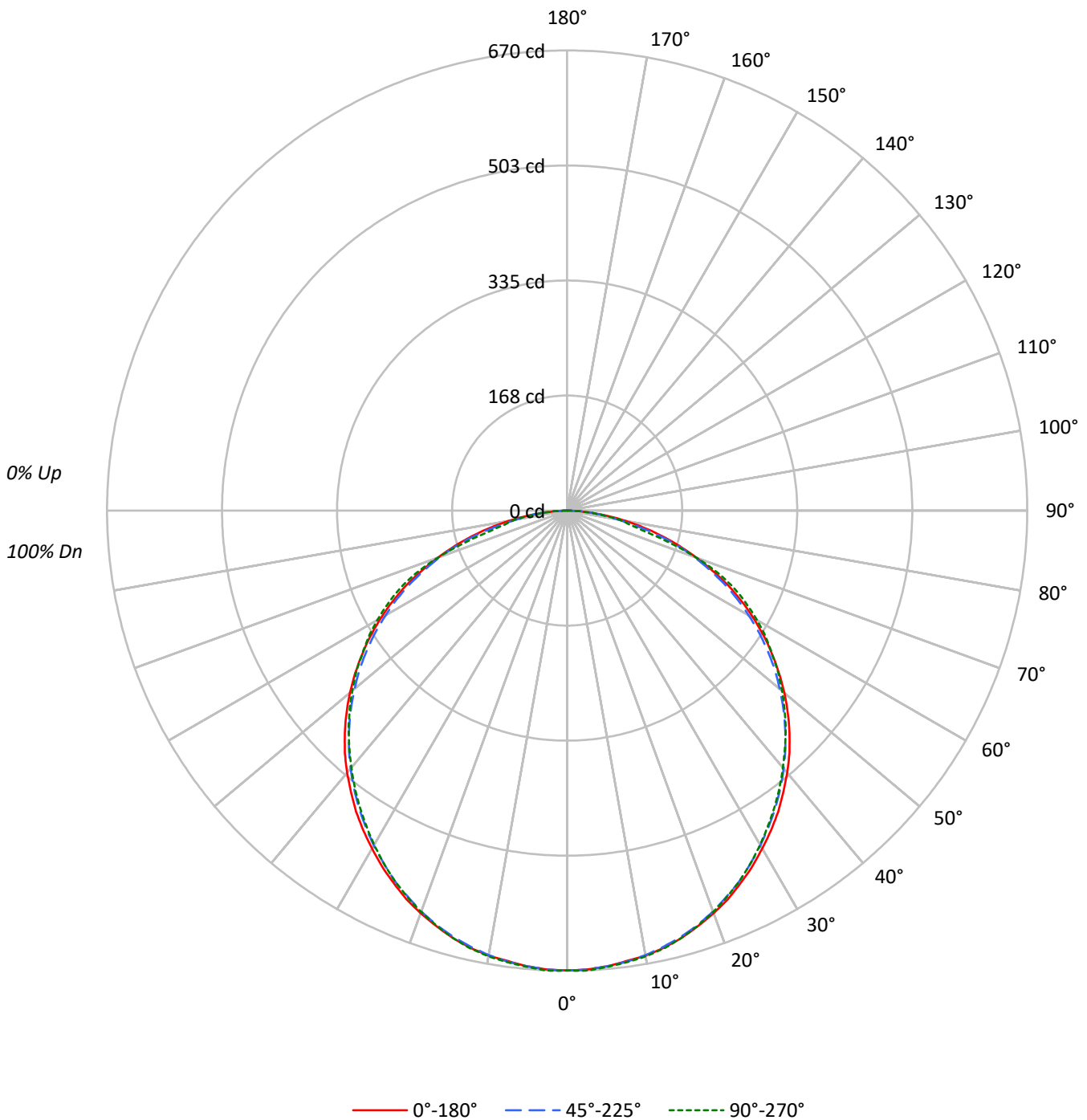
Input Watts (W): 15.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

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

	0°	45°	90°
0°	1802	1802	1802
5°	1799	1799	1801
10°	1798	1796	1801
15°	1794	1789	1794
20°	1786	1778	1781
25°	1776	1765	1765
30°	1765	1749	1746
35°	1759	1736	1730
40°	1751	1723	1717
45°	1742	1709	1712
50°	1728	1691	1710
55°	1709	1672	1709
60°	1686	1643	1718
65°	1652	1606	1713
70°	1575	1548	1575
75°	1486	1413	1210
80°	1340	1148	1216
85°	982	1007	982



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.3	3.2
10°-20°	181.3	9.3
20°-30°	274.1	14.0
30°-40°	331.3	17.0
40°-50°	347.9	17.8
50°-60°	322.0	16.5
60°-70°	254.0	13.0
70°-80°	142.0	7.3
80°-90°	38.4	2.0
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°	518.8	26.5
0°-40°	850.1	43.5
0°-60°	1519.9	77.8
0°-90°	1954.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1954.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	670	670	670	670	670	
5°	666	665	666	666	667	63
15°	644	642	642	642	644	182
25°	598	596	595	593	595	276
35°	536	533	528	525	527	335
45°	458	454	449	446	450	353
55°	364	362	356	358	364	326
65°	259	256	252	261	269	255
75°	143	140	136	123	116	151
85°	32	32	33	33	32	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	669.6	669.6	669.6	669.6	669.6
2.5°	668.7	667.8	668.7	668.7	670.4
5°	666.0	665.1	666.0	666.0	666.9
7.5°	661.6	661.6	662.5	662.5	663.4
10°	658.1	657.2	657.2	657.2	659.0
12.5°	651.9	650.1	650.1	651.0	652.8
15°	644.0	642.2	642.2	642.2	644.0
17.5°	634.3	633.4	632.5	632.5	633.4
20°	623.7	621.9	621.0	621.0	621.9
22.5°	612.2	609.6	607.8	606.9	608.7
25°	598.1	596.3	594.6	592.8	594.6
27.5°	584.0	581.3	578.7	576.9	578.7
30°	568.1	566.3	562.8	560.2	561.9
32.5°	552.2	550.5	546.0	543.4	544.3
35°	535.5	532.8	528.4	524.9	526.6
37.5°	516.9	515.2	509.9	506.4	508.1
40°	498.4	495.8	490.5	486.9	488.7
42.5°	479.0	475.5	470.2	466.7	469.3
45°	457.8	454.3	449.0	446.4	449.9
47.5°	435.8	432.3	427.0	425.2	429.6
50°	412.8	410.2	404.0	404.0	408.4
52.5°	389.0	385.5	381.1	382.0	387.3
55°	364.3	361.7	356.4	358.2	364.3
57.5°	339.6	336.1	331.7	335.2	343.2
60°	313.2	309.6	305.2	311.4	319.3
62.5°	286.7	283.2	279.6	286.7	294.6
65°	259.4	255.8	252.3	261.1	269.1
67.5°	229.4	225.8	223.2	232.0	238.2
70°	200.2	196.7	196.7	197.6	200.2
72.5°	171.1	169.4	167.6	161.4	157.9
75°	142.9	140.3	135.9	122.6	116.4
77.5°	113.8	111.2	103.2	91.7	92.6
80°	86.5	83.8	74.1	76.7	78.5
82.5°	58.2	57.3	54.7	53.8	53.8
85°	31.8	31.8	32.6	32.6	31.8
87.5°	13.2	13.2	14.1	14.1	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)