

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: P393238

Luminaire Tested: **22EN-LD2-19-UNV-L92765-W2A-1-U (4500K)**

Issue Date: 3/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P393238  
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-L92765-W2A-1-U (4500K)  
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: 1819.9 lumens  
Efficiency: N/A  
Efficacy: 113.7 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

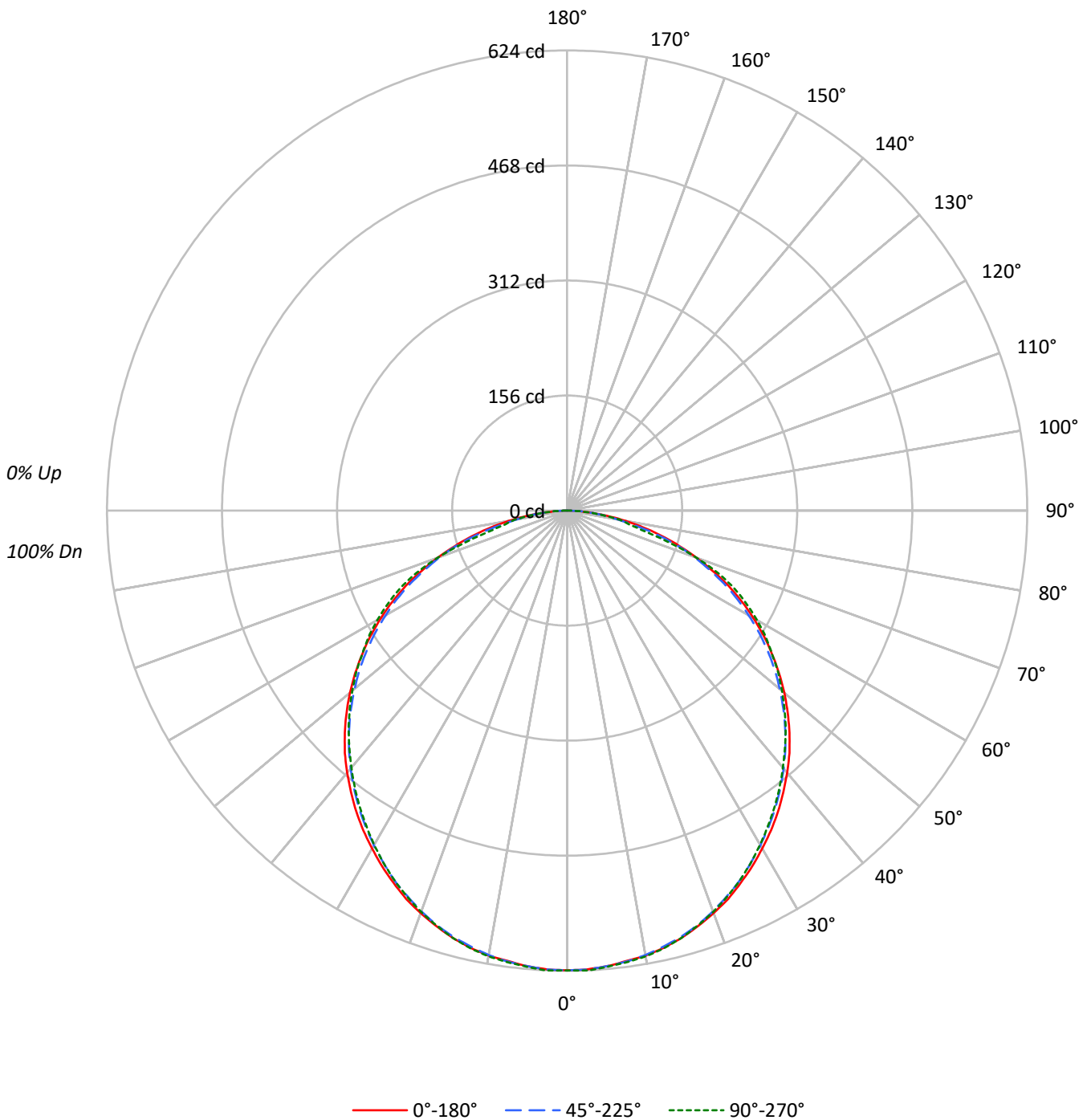
Input Watts (W): 16  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1678	1678	1678
5°	1675	1675	1677
10°	1674	1672	1677
15°	1671	1666	1671
20°	1663	1656	1659
25°	1654	1644	1644
30°	1644	1629	1626
35°	1638	1617	1611
40°	1630	1604	1599
45°	1623	1591	1595
50°	1610	1575	1592
55°	1592	1557	1592
60°	1569	1530	1601
65°	1538	1496	1596
70°	1467	1441	1467
75°	1384	1315	1127
80°	1247	1069	1133
85°	914	939	914



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.9	3.2
10°-20°	168.9	9.3
20°-30°	255.3	14.0
30°-40°	308.5	17.0
40°-50°	323.9	17.8
50°-60°	299.9	16.5
60°-70°	236.5	13.0
70°-80°	132.2	7.3
80°-90°	35.7	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°	483.1	26.5
0°-40°	791.6	43.5
0°-60°	1415.4	77.8
0°-90°	1819.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1819.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	624	624	624	624	624	
5°	620	619	620	620	621	59
15°	600	598	598	598	600	169
25°	557	555	554	552	554	257
35°	499	496	492	489	490	312
45°	426	423	418	416	419	329
55°	339	337	332	334	339	303
65°	242	238	235	243	251	238
75°	133	131	126	114	108	140
85°	30	30	30	30	30	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	623.5	623.5	623.5	623.5	623.5
2.5°	622.7	621.9	622.7	622.7	624.3
5°	620.2	619.4	620.2	620.2	621.0
7.5°	616.1	616.1	616.9	616.9	617.8
10°	612.8	612.0	612.0	612.0	613.7
12.5°	607.1	605.4	605.4	606.3	607.9
15°	599.7	598.0	598.0	598.0	599.7
17.5°	590.7	589.8	589.0	589.0	589.8
20°	580.8	579.2	578.3	578.3	579.2
22.5°	570.1	567.6	566.0	565.2	566.8
25°	557.0	555.3	553.7	552.0	553.7
27.5°	543.8	541.4	538.9	537.3	538.9
30°	529.0	527.4	524.1	521.6	523.3
32.5°	514.3	512.6	508.5	506.0	506.9
35°	498.6	496.2	492.1	488.8	490.4
37.5°	481.4	479.7	474.8	471.5	473.2
40°	464.1	461.7	456.7	453.5	455.1
42.5°	446.1	442.8	437.9	434.6	437.0
45°	426.4	423.1	418.1	415.7	419.0
47.5°	405.8	402.5	397.6	396.0	400.1
50°	384.5	382.0	376.2	376.2	380.3
52.5°	362.3	359.0	354.9	355.7	360.6
55°	339.3	336.8	331.9	333.5	339.3
57.5°	316.3	313.0	308.9	312.2	319.6
60°	291.6	288.3	284.2	290.0	297.4
62.5°	267.0	263.7	260.4	267.0	274.4
65°	241.5	238.2	234.9	243.2	250.6
67.5°	213.6	210.3	207.8	216.1	221.8
70°	186.5	183.2	183.2	184.0	186.5
72.5°	159.4	157.7	156.1	150.3	147.0
75°	133.1	130.6	126.5	114.2	108.4
77.5°	106.0	103.5	96.1	85.4	86.3
80°	80.5	78.0	69.0	71.5	73.1
82.5°	54.2	53.4	50.9	50.1	50.1
85°	29.6	29.6	30.4	30.4	29.6
87.5°	12.3	12.3	13.1	13.1	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)