

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: P393243

Luminaire Tested: **22EN-LD2-19-UNV-L93050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393243
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 (3000K)
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: 1820.4 lumens
Efficiency: N/A
Efficacy: 113.8 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

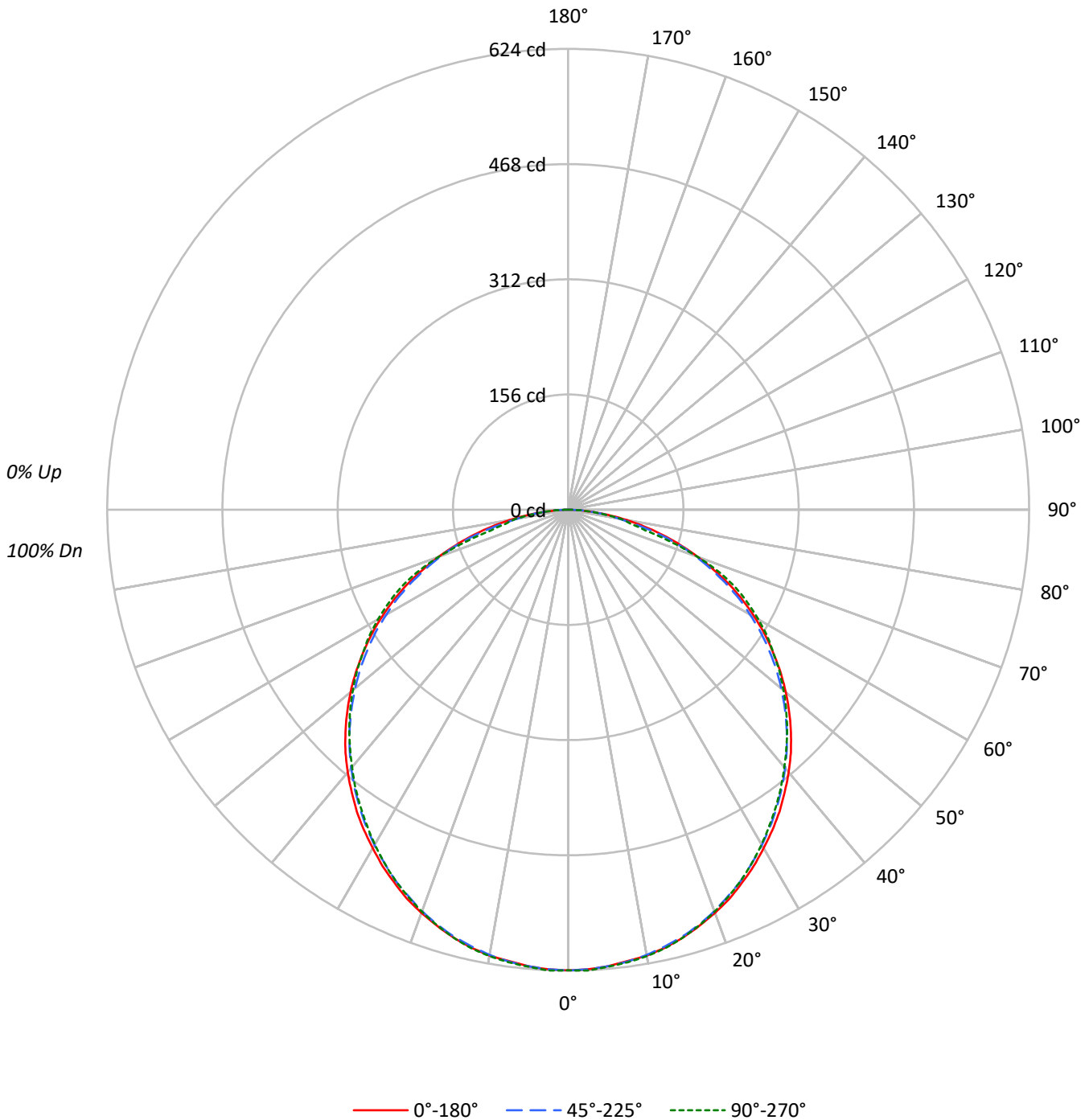
Input Watts (W): 16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393243

CATALOG NUMBER: 22EN-LD2-19-UNV-L93050-W2A-1-U (3000K)

Luminous Intensity Polar Plot





TEST NUMBER: P393243

CATALOG NUMBER: 22EN-LD2-19-UNV-L93050-W2A-1-U (3000K)

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°	1676	1676	1678
10°	1675	1673	1677
15°	1671	1667	1671
20°	1664	1657	1659
25°	1654	1645	1645
30°	1644	1629	1626
35°	1639	1617	1612
40°	1631	1605	1599
45°	1623	1592	1595
50°	1610	1576	1593
55°	1592	1558	1592
60°	1570	1530	1601
65°	1538	1496	1596
70°	1467	1441	1467
75°	1384	1315	1128
80°	1247	1069	1133
85°	914	939	914



TEST NUMBER: P393243

CATALOG NUMBER: 22EN-LD2-19-UNV-L93050-W2A-1-U (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	3.2
10°-20°	168.9	9.3
20°-30°	255.4	14.0
30°-40°	308.6	17.0
40°-50°	324.0	17.8
50°-60°	300.0	16.5
60°-70°	236.6	13.0
70°-80°	132.3	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°	483.3	26.5
0°-40°	791.9	43.5
0°-60°	1415.8	77.8
0°-90°	1820.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1820.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	624	624	624	624	624	
5°	620	620	620	620	621	59
15°	600	598	598	598	600	169
25°	557	556	554	552	554	257
35°	499	496	492	489	491	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	



TEST NUMBER: P393243

CATALOG NUMBER: 22EN-LD2-19-UNV-L93050-W2A-1-U (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	623.7	623.7	623.7	623.7	623.7
2.5°	622.9	622.1	622.9	622.9	624.5
5°	620.4	619.6	620.4	620.4	621.2
7.5°	616.3	616.3	617.1	617.1	618.0
10°	613.0	612.2	612.2	612.2	613.8
12.5°	607.3	605.6	605.6	606.4	608.1
15°	599.9	598.2	598.2	598.2	599.9
17.5°	590.8	590.0	589.2	589.2	590.0
20°	581.0	579.3	578.5	578.5	579.3
22.5°	570.3	567.8	566.2	565.4	567.0
25°	557.1	555.5	553.9	552.2	553.9
27.5°	544.0	541.5	539.1	537.4	539.1
30°	529.2	527.6	524.3	521.8	523.4
32.5°	514.4	512.8	508.7	506.2	507.0
35°	498.8	496.3	492.2	488.9	490.6
37.5°	481.5	479.9	475.0	471.7	473.3
40°	464.3	461.8	456.9	453.6	455.2
42.5°	446.2	442.9	438.0	434.7	437.2
45°	426.5	423.2	418.3	415.8	419.1
47.5°	405.9	402.7	397.7	396.1	400.2
50°	384.6	382.1	376.4	376.4	380.5
52.5°	362.4	359.1	355.0	355.8	360.7
55°	339.4	336.9	332.0	333.6	339.4
57.5°	316.4	313.1	309.0	312.3	319.7
60°	291.7	288.4	284.3	290.1	297.5
62.5°	267.1	263.8	260.5	267.1	274.5
65°	241.6	238.3	235.0	243.2	250.6
67.5°	213.7	210.4	207.9	216.1	221.9
70°	186.5	183.2	183.2	184.1	186.5
72.5°	159.4	157.8	156.1	150.4	147.1
75°	133.1	130.7	126.5	114.2	108.5
77.5°	106.0	103.5	96.1	85.5	86.3
80°	80.5	78.1	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)