

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: P393274

Luminaire Tested: **22EN-LD2-25-UNV-L93050-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-563-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-25-UNV-L93050-W2A-1-U (2700K)
Description: 2X2 ENCOUNTER, 2500 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2160.3 lumens
Efficiency: N/A
Efficacy: 120.0 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

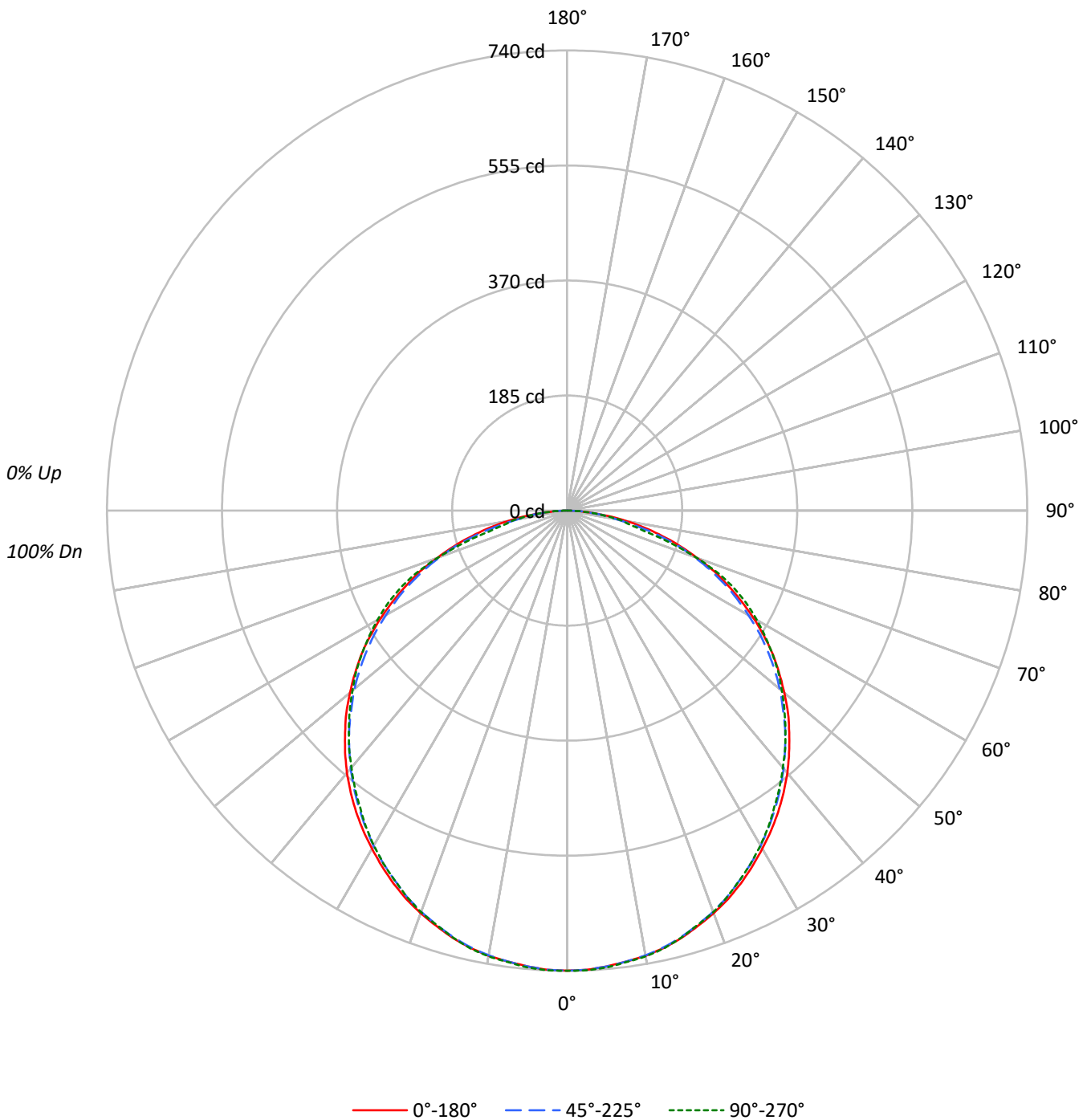
Input Watts (W): 18
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393274

CATALOG NUMBER: 22EN-LD2-25-UNV-L93050-W2A-1-U (2700K)

Luminous Intensity Polar Plot





TEST NUMBER: P393274

CATALOG NUMBER: 22EN-LD2-25-UNV-L93050-W2A-1-U (2700K)

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	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	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	45	57	50	45	55	49	44	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°	1991	1991	1991
5°	1987	1987	1992
10°	1987	1984	1989
15°	1982	1977	1980
20°	1973	1966	1968
25°	1964	1948	1948
30°	1950	1934	1932
35°	1943	1918	1909
40°	1935	1902	1896
45°	1922	1886	1889
50°	1909	1869	1887
55°	1896	1847	1892
60°	1863	1812	1896
65°	1820	1776	1891
70°	1746	1705	1739
75°	1652	1562	1356
80°	1499	1258	1337
85°	1093	1121	1093



TEST NUMBER: P393274

CATALOG NUMBER: 22EN-LD2-25-UNV-L93050-W2A-1-U (2700K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	3.2
10°-20°	200.3	9.3
20°-30°	303.0	14.0
30°-40°	366.0	16.9
40°-50°	384.1	17.8
50°-60°	355.9	16.5
60°-70°	281.0	13.0
70°-80°	157.6	7.3
80°-90°	42.5	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°	573.2	26.5
0°-40°	939.2	43.5
0°-60°	1679.2	77.7
0°-90°	2160.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2160.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	740	740	740	740	740	
5°	736	735	736	736	737	70
15°	712	710	710	710	711	201
25°	661	659	656	654	656	305
35°	592	589	584	580	581	370
45°	505	501	496	493	496	390
55°	404	400	394	397	403	360
65°	286	282	279	288	297	283
75°	159	156	150	136	130	168
85°	35	35	36	35	35	45
90°	0	0	0	0	0	



TEST NUMBER: P393274

CATALOG NUMBER: 22EN-LD2-25-UNV-L93050-W2A-1-U (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	740.0	740.0	740.0	740.0	740.0
2.5°	739.1	738.2	739.1	739.1	740.0
5°	735.6	734.8	735.6	736.5	737.4
7.5°	731.3	730.5	731.3	732.2	732.2
10°	727.0	725.3	726.1	727.0	727.9
12.5°	720.1	719.2	719.2	719.2	721.0
15°	711.5	709.7	709.7	709.7	710.6
17.5°	700.2	699.4	698.5	698.5	698.5
20°	689.0	687.3	686.4	685.6	687.3
22.5°	676.1	674.3	672.6	670.9	672.6
25°	661.4	658.8	656.2	654.5	656.2
27.5°	645.0	643.3	639.8	637.2	639.8
30°	627.7	625.1	622.5	619.9	621.7
32.5°	610.4	607.9	603.5	600.1	602.7
35°	591.5	588.9	583.7	580.2	581.1
37.5°	571.6	568.1	563.0	559.5	561.2
40°	550.9	547.4	541.4	537.1	539.6
42.5°	528.4	525.0	518.9	516.3	518.9
45°	505.1	500.8	495.6	493.0	496.5
47.5°	481.8	478.3	470.6	470.6	474.0
50°	455.9	452.4	446.4	446.4	450.7
52.5°	430.0	425.7	420.5	422.2	428.3
55°	404.1	399.8	393.7	397.2	403.2
57.5°	375.6	372.1	366.1	371.3	378.2
60°	346.2	341.9	336.7	343.6	352.3
62.5°	316.0	312.6	308.2	316.9	326.4
65°	285.8	282.3	278.9	288.4	297.0
67.5°	256.4	252.1	248.7	257.3	263.3
70°	221.9	219.3	216.7	218.4	221.0
72.5°	190.8	188.2	185.6	178.7	176.1
75°	158.9	156.3	150.2	135.6	130.4
77.5°	127.8	125.2	114.0	101.0	101.9
80°	96.7	94.1	81.2	83.8	86.3
82.5°	66.5	63.0	60.4	59.6	59.6
85°	35.4	35.4	36.3	35.4	35.4
87.5°	14.7	15.5	15.5	15.5	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)