

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P798172

Luminaire Tested: 14GRSCT3-FGW080-UNV-HIGH-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P291572)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14GRSCT3-FGW080-UNV-HIGH-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

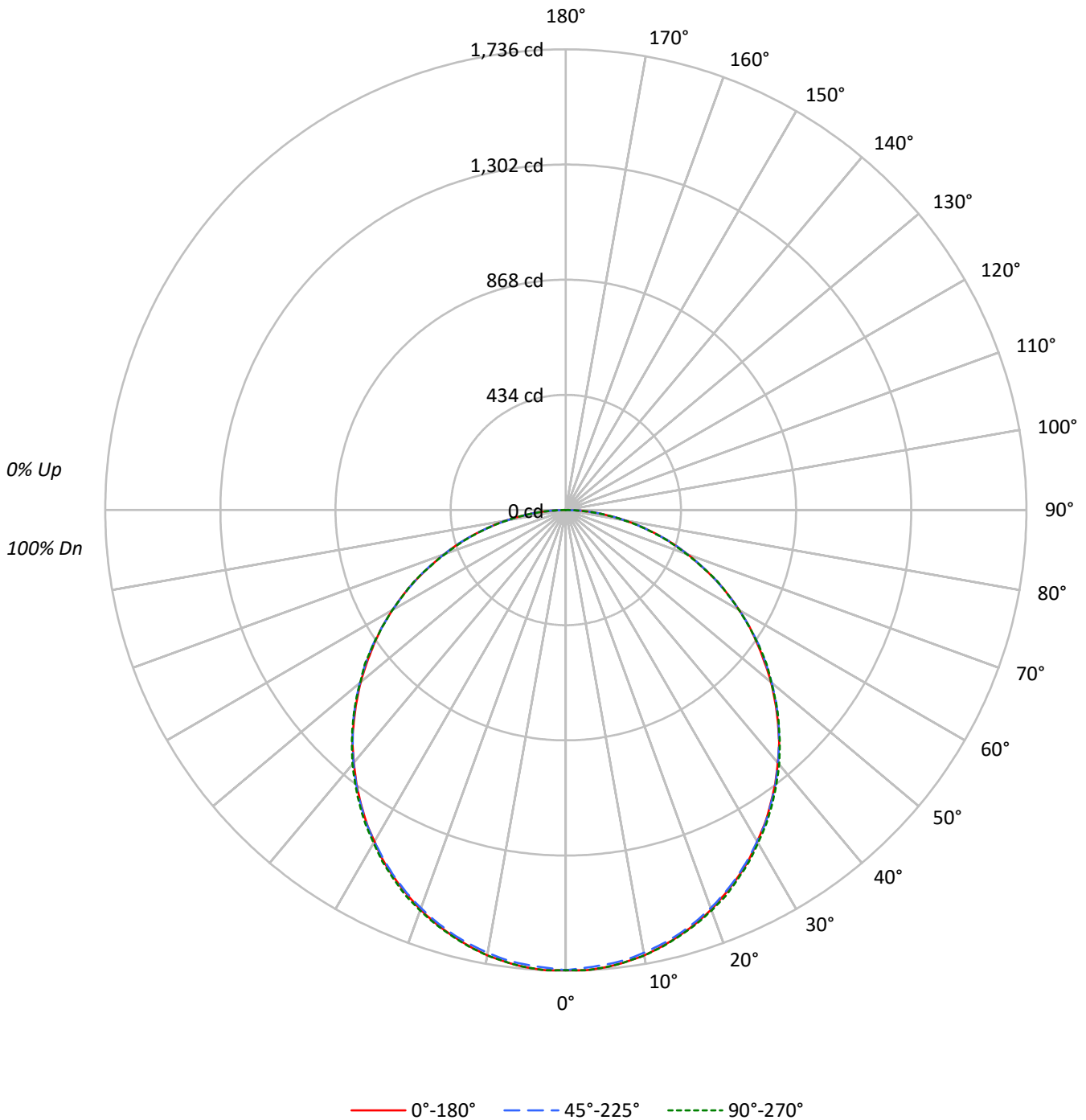
Lumens per Lamp: N/A
Luminaire Lumens: 4958.9 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): 120
Input Current (A_{in}): 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: 24 FT



TEST NUMBER: P798172
CATALOG NUMBER: 14GRSCT3-FGW080-UNV-HIGH-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P798172

CATALOG NUMBER: 14GRSCT3-FGW080-UNV-HIGH-3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	85	85	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	71	71	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	60	60	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	51	51	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	45	45	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	39	39	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	35	35	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4667	4667	4667
5°	4672	4646	4672
10°	4656	4630	4656
15°	4624	4606	4628
20°	4589	4572	4599
25°	4543	4532	4557
30°	4482	4482	4502
35°	4426	4432	4452
40°	4366	4372	4393
45°	4301	4313	4320
50°	4227	4241	4234
55°	4143	4166	4158
60°	4061	4061	4061
65°	3968	3968	3987
70°	3843	3843	3805
75°	3709	3690	3676
80°	3539	3513	3487
85°	3325	3282	3177

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 4320 cd/sqm



TEST NUMBER: P798172
 CATALOG NUMBER: 14GRSCT3-FGW080-UNV-HIGH-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.0	3.3
10°-20°	468.0	9.4
20°-30°	705.3	14.2
30°-40°	845.3	17.0
40°-50°	874.0	17.6
50°-60°	792.5	16.0
60°-70°	615.9	12.4
70°-80°	376.2	7.6
80°-90°	117.7	2.4
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°	1337.4	27.0
0°-40°	2182.6	44.0
0°-60°	3849.2	77.6
0°-90°	4958.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4958.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1734	1734	1734	1734	1734	
5°	1730	1728	1720	1728	1730	164
15°	1660	1660	1653	1661	1661	468
25°	1530	1530	1526	1536	1535	705
35°	1347	1349	1349	1355	1355	843
45°	1130	1132	1133	1135	1135	872
55°	883	886	888	888	886	790
65°	623	623	623	620	626	616
75°	357	357	355	354	354	377
85°	108	105	106	103	103	119
90°	0	0	0	0	0	



TEST NUMBER: P798172

CATALOG NUMBER: 14GRSCT3-FGW080-UNV-HIGH-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1734.3	1734.3	1734.3	1734.3	1734.3
2.5°	1736.0	1734.3	1726.4	1734.3	1736.0
5°	1729.5	1727.8	1719.9	1727.8	1729.5
7.5°	1718.5	1718.5	1710.6	1718.5	1718.5
10°	1704.1	1702.7	1694.5	1702.7	1704.1
12.5°	1683.5	1683.5	1675.6	1683.5	1685.2
15°	1659.8	1659.8	1653.3	1661.2	1661.2
17.5°	1632.8	1634.5	1626.6	1635.8	1635.8
20°	1602.6	1601.2	1596.4	1604.3	1606.0
22.5°	1566.2	1567.9	1563.1	1572.4	1574.1
25°	1529.9	1529.9	1526.4	1536.0	1534.7
27.5°	1490.1	1490.1	1485.3	1493.2	1494.9
30°	1442.4	1444.1	1442.4	1450.7	1448.9
32.5°	1398.2	1399.9	1399.9	1403.0	1404.4
35°	1347.4	1349.1	1349.1	1355.3	1355.3
37.5°	1296.7	1296.7	1298.4	1303.2	1303.2
40°	1242.8	1244.5	1244.5	1249.0	1250.7
42.5°	1190.4	1187.3	1189.0	1193.8	1193.8
45°	1130.3	1131.7	1133.4	1135.1	1135.1
47.5°	1070.0	1073.1	1074.8	1076.5	1074.8
50°	1009.6	1013.1	1013.1	1011.3	1011.3
52.5°	944.8	952.7	951.0	951.0	954.4
55°	883.1	886.2	887.9	887.9	886.2
57.5°	821.0	824.4	821.0	822.7	819.6
60°	754.5	756.2	754.5	754.5	754.5
62.5°	689.7	691.0	687.9	687.9	687.9
65°	623.1	623.1	623.1	619.7	626.2
67.5°	553.2	556.3	556.3	558.0	551.8
70°	488.4	489.7	488.4	486.6	483.6
72.5°	423.2	424.9	426.3	420.1	418.4
75°	356.7	356.7	354.9	353.6	353.6
77.5°	291.8	291.8	291.8	288.4	288.4
80°	228.4	229.8	226.7	226.7	225.0
82.5°	166.3	166.3	166.3	165.0	161.5
85°	107.7	104.6	106.3	102.9	102.9
87.5°	49.0	49.0	49.0	46.0	52.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)