

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: P798275

Luminaire Tested: 24GRSCT3-F125-UNV-LOW-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P293206)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24GRSCT3-F125-UNV-LOW-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

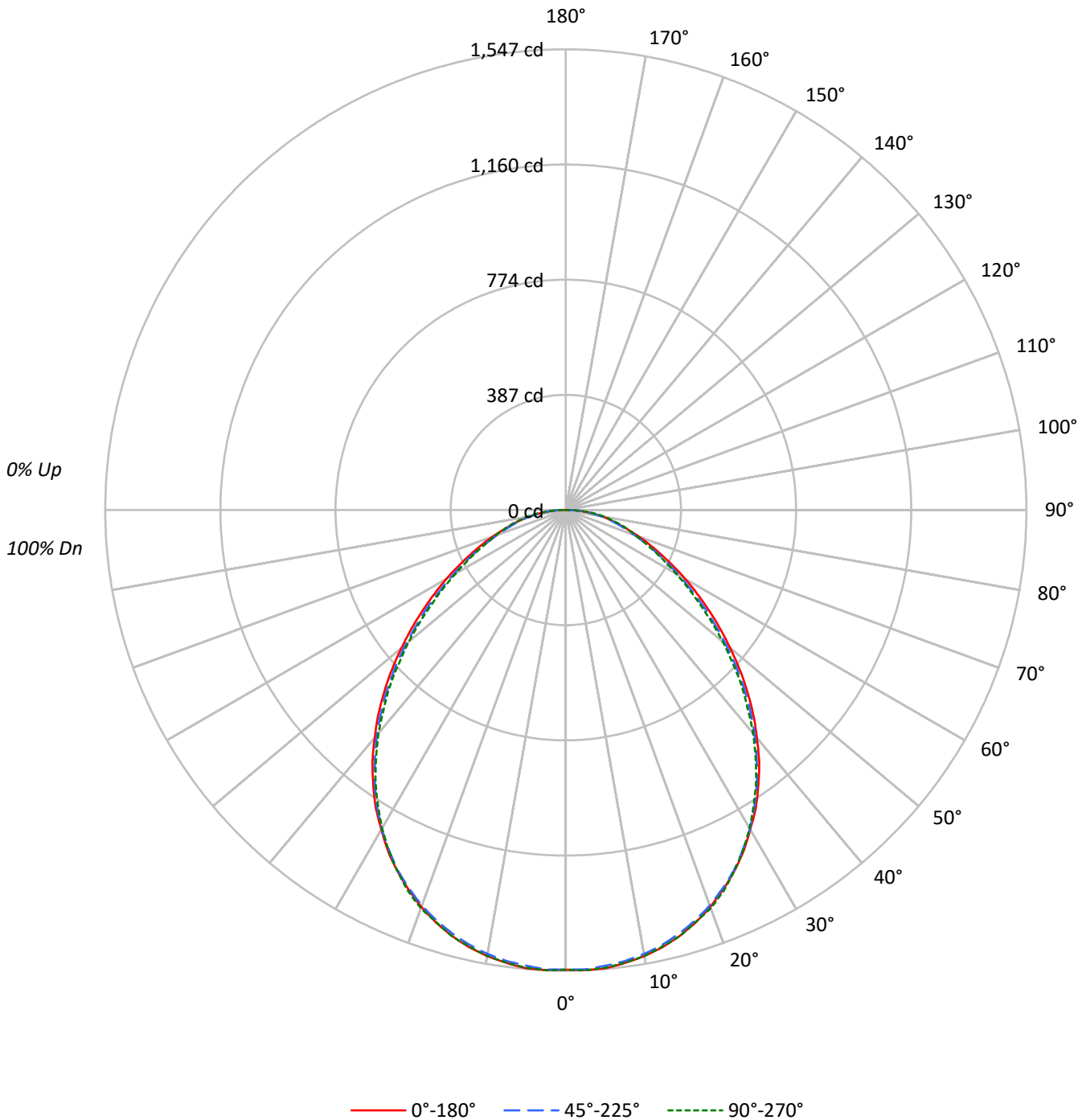
Lumens per Lamp: N/A
Luminaire Lumens: 3632.1 lumens
Efficiency: N/A
Efficacy: 150.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24.1
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: 24 FT



TEST NUMBER: P798275
CATALOG NUMBER: 24GRSCT3-F125-UNV-LOW-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P798275

CATALOG NUMBER: 24GRSCT3-F125-UNV-LOW-4000K

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	87	87	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	74	74	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	64	64	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	56	56	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	49	49	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	44	44	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	39	39	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	35	35	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	32	32	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	29	29	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2077	2077	2077
5°	2086	2075	2083
10°	2078	2068	2077
15°	2062	2051	2063
20°	2031	2023	2038
25°	1987	1982	1987
30°	1925	1921	1917
35°	1852	1838	1831
40°	1753	1733	1719
45°	1640	1610	1590
50°	1507	1467	1441
55°	1374	1324	1285
60°	1248	1181	1150
65°	1124	1061	1043
70°	1030	963	989
75°	962	918	986
80°	955	937	1029
85°	973	982	1122

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1640 cd/sqm



TEST NUMBER: P798275
 CATALOG NUMBER: 24GRSCT3-F125-UNV-LOW-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.1	4.0
10°-20°	415.3	11.4
20°-30°	613.6	16.9
30°-40°	697.6	19.2
40°-50°	651.5	17.9
50°-60°	506.6	13.9
60°-70°	336.2	9.3
70°-80°	194.5	5.4
80°-90°	70.7	1.9
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°	1175.0	32.4
0°-40°	1872.6	51.6
0°-60°	3030.7	83.4
0°-90°	3632.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3632.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1544	1544	1544	1544	1544	
5°	1545	1537	1536	1539	1543	147
15°	1480	1473	1472	1472	1481	417
25°	1339	1333	1335	1332	1338	616
35°	1128	1122	1119	1111	1114	704
45°	862	855	846	835	836	664
55°	586	577	564	550	548	525
65°	353	342	333	327	328	353
75°	185	180	177	184	190	198
85°	63	62	64	72	73	68
90°	0	0	0	0	0	



TEST NUMBER: P798275

CATALOG NUMBER: 24GRSCT3-F125-UNV-LOW-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1543.6	1543.6	1543.6	1543.6	1543.6
2.5°	1546.0	1541.4	1543.6	1541.9	1547.0
5°	1544.8	1536.9	1536.2	1539.1	1542.6
7.5°	1534.0	1525.5	1527.1	1527.1	1532.9
10°	1520.9	1512.5	1513.6	1514.2	1520.4
12.5°	1503.4	1494.8	1495.5	1494.8	1501.0
15°	1480.1	1472.7	1472.1	1471.6	1481.2
17.5°	1451.7	1441.4	1444.9	1445.5	1450.5
20°	1418.7	1410.8	1413.1	1412.5	1423.3
22.5°	1379.6	1373.9	1375.6	1374.4	1384.7
25°	1338.7	1333.0	1335.3	1332.5	1338.2
27.5°	1292.7	1288.7	1286.5	1284.8	1288.7
30°	1238.9	1236.5	1236.5	1229.1	1233.7
32.5°	1187.7	1180.3	1180.3	1177.4	1174.6
35°	1127.6	1121.9	1119.0	1111.1	1114.5
37.5°	1067.3	1054.3	1053.2	1046.9	1046.9
40°	998.1	990.7	986.7	979.9	978.7
42.5°	932.3	924.9	918.0	906.7	904.3
45°	861.9	855.0	845.9	835.1	835.6
47.5°	792.0	782.4	773.8	760.7	759.0
50°	719.9	713.1	700.6	689.3	688.6
52.5°	652.3	641.5	630.2	616.6	616.6
55°	585.9	577.4	564.4	549.6	547.9
57.5°	522.3	514.4	499.6	488.8	485.9
60°	463.9	452.4	438.8	429.8	427.5
62.5°	405.4	395.2	384.9	375.8	375.3
65°	353.1	342.3	333.2	327.0	327.6
67.5°	305.9	297.0	286.7	285.0	285.6
70°	261.7	252.1	244.7	248.7	251.5
72.5°	219.7	214.7	209.5	215.2	219.2
75°	185.0	180.5	176.6	184.5	189.6
77.5°	153.2	149.9	149.3	156.1	160.6
80°	123.2	119.2	120.9	128.8	132.8
82.5°	93.6	90.9	91.4	101.0	103.9
85°	63.0	61.9	63.6	72.1	72.7
87.5°	33.5	33.5	34.7	39.7	38.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)