

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: P798219

Luminaire Tested: 22GRSCT3-F125-UNV-LOW-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798219
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P291964)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22GRSCT3-F125-UNV-LOW-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

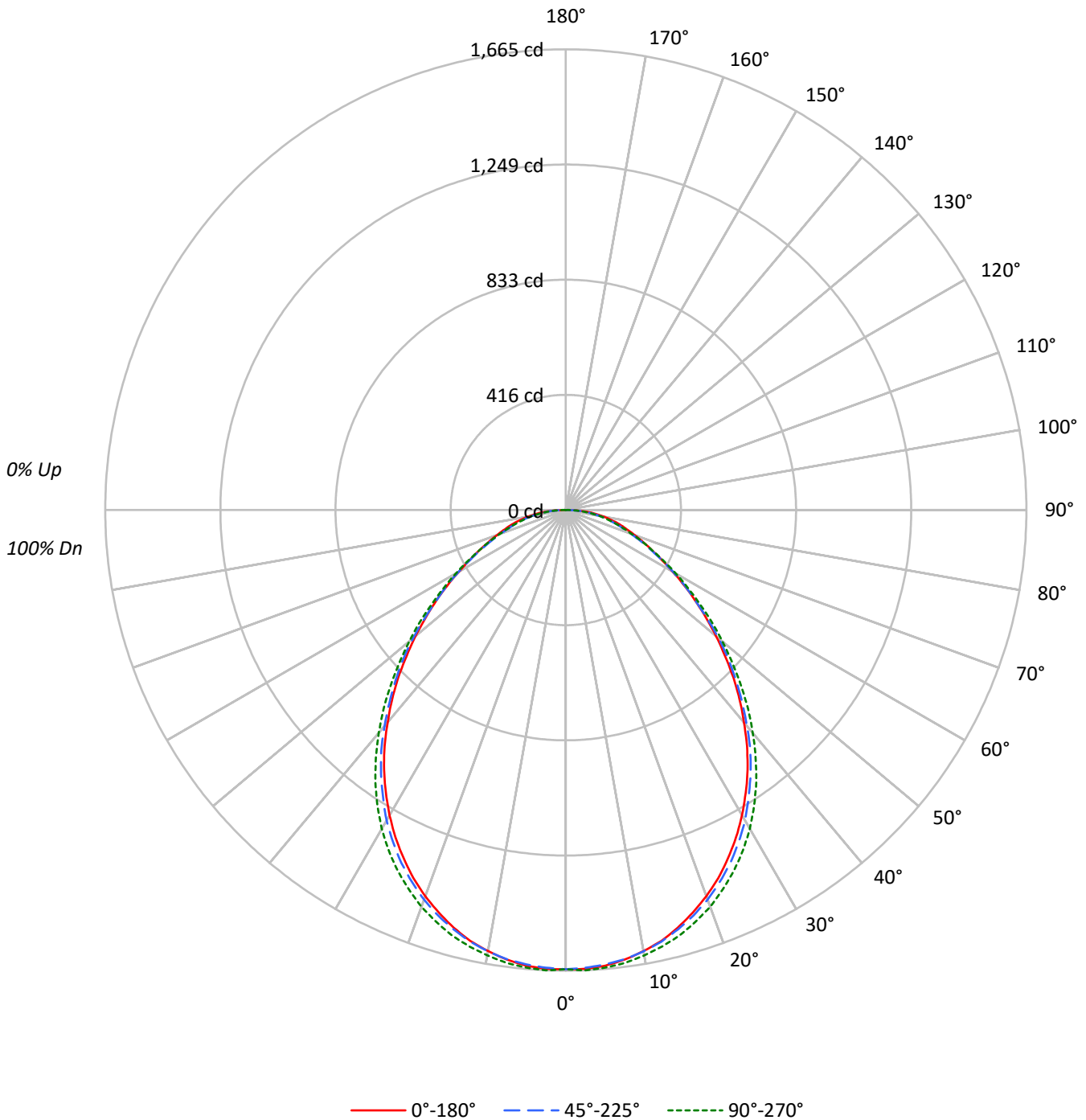
Lumens per Lamp: N/A
Luminaire Lumens: 3781.0 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 29.5
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



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Luminous Intensity Polar Plot





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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	100	100	100	100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85	85	85	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73	73	73	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62	62	62	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54	54	54	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48	48	48	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42	42	42	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38	38	38	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34	34	34	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31	31	31	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28	28	28	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4466	4466	4466
5°	4465	4453	4484
10°	4423	4426	4466
15°	4355	4370	4433
20°	4253	4291	4369
25°	4121	4178	4269
30°	3958	4026	4133
35°	3764	3824	3942
40°	3519	3578	3695
45°	3259	3308	3406
50°	2967	3015	3093
55°	2679	2688	2766
60°	2403	2412	2469
65°	2189	2145	2195
70°	2084	1968	2002
75°	2097	1897	1906
80°	2174	1917	1905
85°	2387	2032	1920

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3406 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.8	4.1
10°-20°	443.0	11.7
20°-30°	648.4	17.1
30°-40°	729.0	19.3
40°-50°	672.3	17.8
50°-60°	518.2	13.7
60°-70°	341.9	9.0
70°-80°	199.0	5.3
80°-90°	72.5	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°	1248.2	33.0
0°-40°	1977.2	52.3
0°-60°	3167.6	83.8
0°-90°	3781.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3781.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1660	1660	1660	1660	1660	
5°	1653	1649	1648	1656	1660	157
15°	1563	1563	1569	1583	1591	440
25°	1388	1395	1407	1427	1438	638
35°	1146	1151	1164	1188	1200	714
45°	856	857	869	887	895	659
55°	571	570	573	583	590	512
65°	344	342	337	340	345	345
75°	202	193	182	179	183	212
85°	77	76	66	60	62	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1659.8	1659.8	1659.8	1659.8	1659.8
2.5°	1659.8	1656.2	1655.5	1661.6	1665.2
5°	1652.9	1649.3	1648.5	1656.2	1659.8
7.5°	1638.8	1636.2	1637.0	1645.7	1650.3
10°	1618.6	1617.8	1619.6	1629.1	1634.5
12.5°	1595.0	1594.0	1597.6	1608.1	1615.0
15°	1563.3	1563.3	1568.7	1582.7	1591.4
17.5°	1525.7	1528.2	1536.2	1550.2	1559.9
20°	1485.2	1487.8	1498.5	1514.2	1525.7
22.5°	1440.4	1444.0	1454.5	1473.9	1483.5
25°	1387.9	1394.9	1407.2	1426.6	1437.9
27.5°	1333.4	1341.4	1352.9	1376.4	1386.9
30°	1273.8	1279.1	1295.8	1317.8	1330.1
32.5°	1210.6	1215.9	1230.0	1256.4	1266.9
35°	1145.8	1150.9	1164.2	1187.8	1200.1
37.5°	1075.6	1080.0	1095.8	1114.3	1127.4
40°	1001.9	1008.1	1018.6	1040.6	1051.9
42.5°	930.0	932.6	944.0	965.8	974.8
45°	856.3	857.1	869.3	887.0	894.9
47.5°	780.0	781.8	796.6	807.1	815.0
50°	708.8	709.8	720.3	729.8	738.8
52.5°	637.9	637.9	643.0	653.5	665.0
55°	571.1	570.3	572.9	582.6	589.5
57.5°	507.9	507.1	510.7	516.8	522.0
60°	446.5	444.9	448.2	451.8	458.7
62.5°	392.2	393.9	389.6	394.7	400.1
65°	343.8	342.2	336.9	339.5	344.8
67.5°	302.6	300.0	291.3	293.1	299.2
70°	264.9	259.6	250.1	250.1	254.4
72.5°	230.7	225.5	213.2	214.0	215.8
75°	201.7	193.0	182.5	178.9	183.3
77.5°	170.2	163.1	153.6	150.8	152.6
80°	140.3	135.1	123.7	120.3	122.9
82.5°	111.4	107.0	93.9	91.2	92.1
85°	77.3	76.3	65.8	60.4	62.2
87.5°	41.2	42.2	34.3	30.7	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)