

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: P798220

Luminaire Tested: 22GRSCT3-F125-UNV-LOW-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798220
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-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

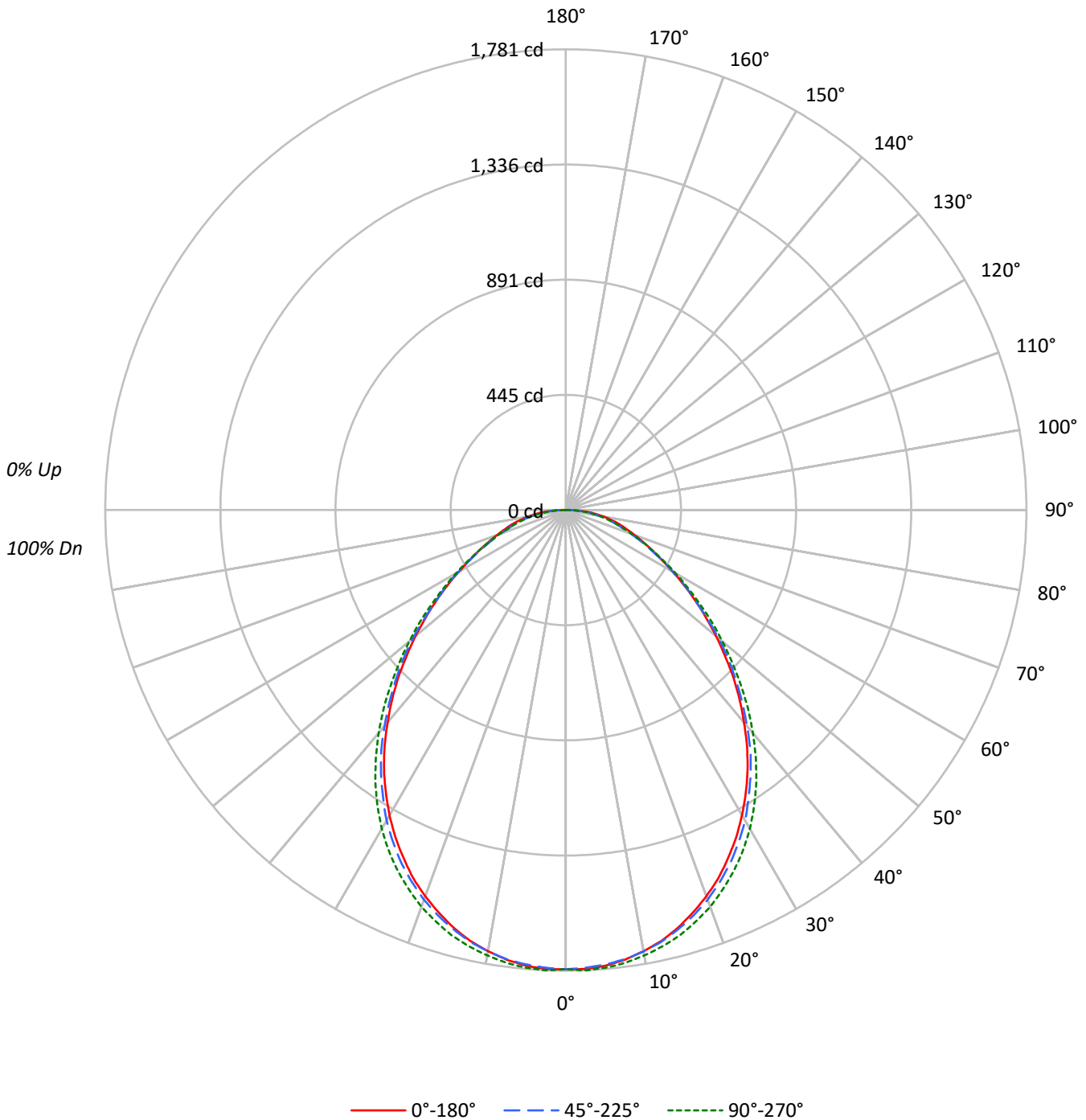
Lumens per Lamp: N/A
Luminaire Lumens: 4045.0 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 28.6
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				
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°	4778	4778	4778
5°	4777	4764	4797
10°	4732	4735	4778
15°	4659	4675	4743
20°	4550	4591	4674
25°	4409	4470	4567
30°	4234	4308	4421
35°	4027	4092	4218
40°	3765	3828	3953
45°	3486	3539	3643
50°	3175	3226	3309
55°	2867	2875	2959
60°	2570	2581	2641
65°	2342	2295	2349
70°	2230	2105	2142
75°	2244	2031	2039
80°	2326	2050	2036
85°	2553	2174	2056

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3643 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	4.1
10°-20°	473.9	11.7
20°-30°	693.6	17.1
30°-40°	779.9	19.3
40°-50°	719.2	17.8
50°-60°	554.3	13.7
60°-70°	365.8	9.0
70°-80°	212.9	5.3
80°-90°	77.6	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°	1335.3	33.0
0°-40°	2115.2	52.3
0°-60°	3388.8	83.8
0°-90°	4045.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4045.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1776	1776	1776	1776	1776	
5°	1768	1764	1764	1772	1776	168
15°	1672	1672	1678	1693	1703	471
25°	1485	1492	1505	1526	1538	683
35°	1226	1231	1246	1271	1284	764
45°	916	917	930	949	957	705
55°	611	610	613	623	631	548
65°	368	366	360	363	369	369
75°	216	206	195	191	196	227
85°	83	82	70	65	67	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1775.7	1775.7	1775.7	1775.7	1775.7
2.5°	1775.7	1771.9	1771.0	1777.6	1781.4
5°	1768.3	1764.5	1763.6	1771.9	1775.7
7.5°	1753.2	1750.5	1751.3	1760.7	1765.5
10°	1731.6	1730.8	1732.7	1742.8	1748.6
12.5°	1706.4	1705.3	1709.1	1720.4	1727.8
15°	1672.5	1672.5	1678.2	1693.2	1702.6
17.5°	1632.2	1634.9	1643.4	1658.5	1668.9
20°	1588.9	1591.7	1603.1	1619.9	1632.2
22.5°	1541.0	1544.8	1556.1	1576.9	1587.0
25°	1484.8	1492.3	1505.4	1526.2	1538.3
27.5°	1426.5	1435.0	1447.3	1472.5	1483.8
30°	1362.7	1368.5	1386.3	1409.8	1422.9
32.5°	1295.1	1300.8	1315.9	1344.1	1355.3
35°	1225.8	1231.3	1245.5	1270.7	1283.9
37.5°	1150.7	1155.4	1172.4	1192.1	1206.1
40°	1071.9	1078.4	1089.7	1113.2	1125.3
42.5°	994.9	997.7	1010.0	1033.3	1042.8
45°	916.1	916.9	930.0	948.9	957.4
47.5°	834.4	836.3	852.2	863.5	872.0
50°	758.3	759.4	770.6	780.8	790.3
52.5°	682.4	682.4	687.9	699.2	711.5
55°	611.0	610.1	612.9	623.3	630.7
57.5°	543.4	542.5	546.3	552.9	558.4
60°	477.6	475.9	479.5	483.4	490.8
62.5°	419.5	421.5	416.8	422.3	428.0
65°	367.8	366.1	360.4	363.2	368.9
67.5°	323.7	321.0	311.6	313.5	320.1
70°	283.4	277.7	267.5	267.5	272.2
72.5°	246.8	241.3	228.1	229.0	230.9
75°	215.8	206.5	195.3	191.4	196.1
77.5°	182.1	174.5	164.3	161.3	163.2
80°	150.1	144.6	132.3	128.7	131.4
82.5°	119.1	114.5	100.5	97.5	98.6
85°	82.7	81.6	70.4	64.7	66.6
87.5°	44.1	45.2	36.7	32.9	34.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)