

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: P798211

Luminaire Tested: 22GRSCT3-F1-UNV-LOW-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2311-232-58)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22GRSCT3-F1-UNV-LOW-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

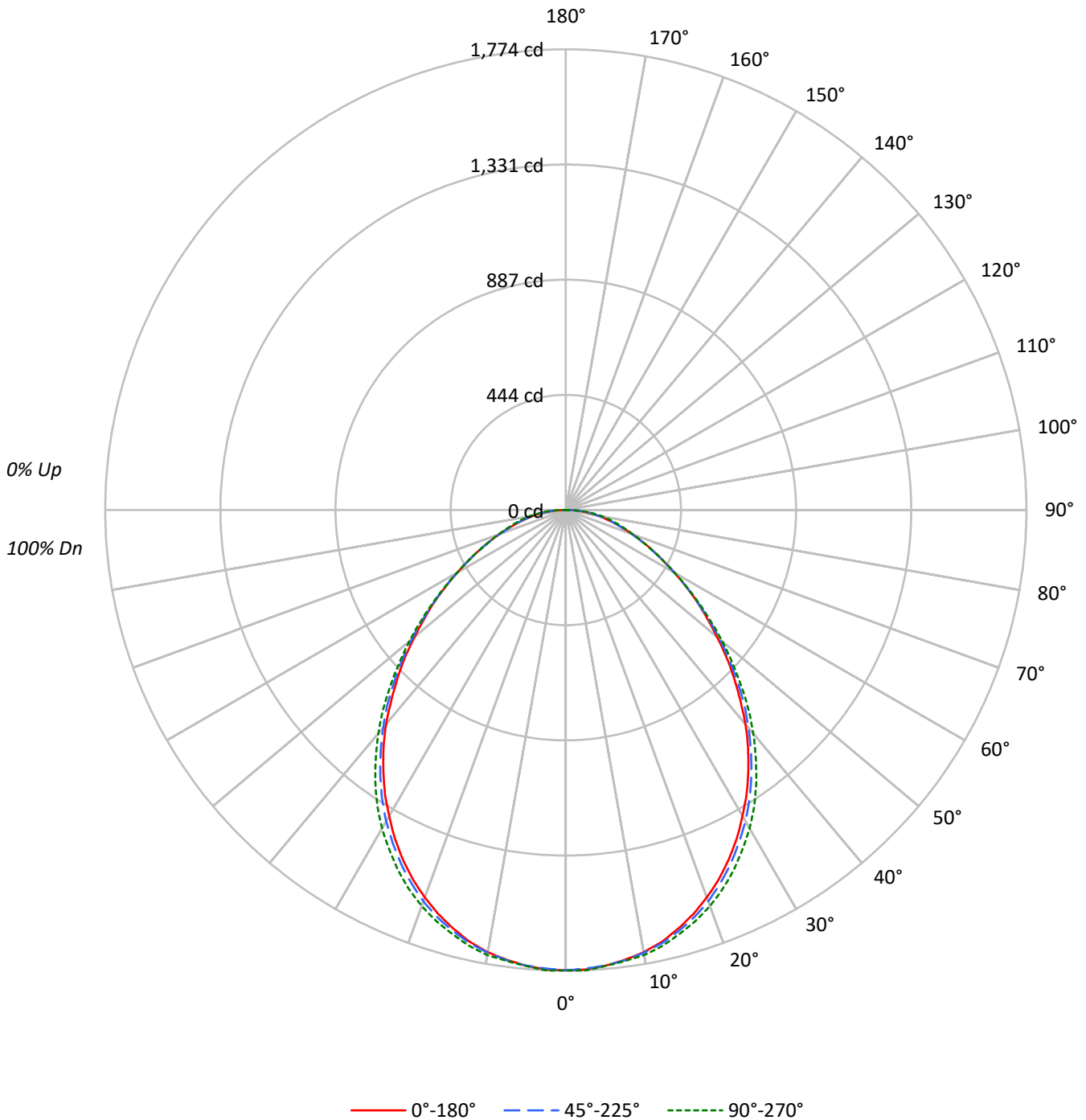
Lumens per Lamp: N/A
Luminaire Lumens: 4045.0 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	51	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	44	54	49	44	42	42	42	42
7	68	55	46	41	66	54	46	40	52	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	32	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°	4770	4770	4770
5°	4758	4756	4759
10°	4724	4730	4755
15°	4651	4677	4708
20°	4546	4592	4647
25°	4407	4461	4542
30°	4227	4300	4398
35°	4026	4091	4201
40°	3782	3843	3945
45°	3490	3556	3631
50°	3181	3236	3293
55°	2898	2910	2939
60°	2603	2603	2603
65°	2348	2336	2348
70°	2144	2125	2174
75°	1988	1994	2137
80°	1943	2011	2232
85°	2032	2167	2473

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3631 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.3	4.1
10°-20°	473.2	11.7
20°-30°	692.1	17.1
30°-40°	779.8	19.3
40°-50°	721.5	17.8
50°-60°	557.2	13.8
60°-70°	367.7	9.1
70°-80°	210.0	5.2
80°-90°	76.3	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°	1332.6	32.9
0°-40°	2112.4	52.2
0°-60°	3391.0	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°	1772	1772	1772	1772	1772	
5°	1761	1764	1761	1761	1762	167
15°	1669	1676	1679	1685	1690	470
25°	1484	1492	1502	1519	1530	682
35°	1226	1234	1245	1268	1279	765
45°	917	926	934	948	954	707
55°	618	617	620	625	626	552
65°	369	368	367	369	369	368
75°	191	193	192	202	206	205
85°	66	68	70	78	80	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1772.5	1772.5	1772.5	1772.5	1772.5
2.5°	1770.6	1772.5	1766.9	1770.0	1774.4
5°	1761.3	1763.8	1760.7	1760.7	1761.9
7.5°	1746.4	1750.2	1748.3	1750.2	1751.4
10°	1729.0	1732.1	1730.9	1735.9	1740.2
12.5°	1703.6	1707.3	1708.6	1714.8	1719.1
15°	1669.4	1675.7	1678.8	1685.0	1689.9
17.5°	1631.6	1638.4	1644.0	1652.1	1659.5
20°	1587.5	1595.6	1603.6	1614.2	1622.9
22.5°	1539.7	1547.1	1555.2	1569.5	1579.4
25°	1484.4	1492.5	1502.4	1519.2	1529.8
27.5°	1426.1	1433.5	1444.1	1463.3	1473.3
30°	1360.3	1370.8	1383.9	1403.1	1415.5
32.5°	1296.3	1305.0	1317.4	1337.3	1351.0
35°	1225.5	1233.6	1245.4	1267.8	1278.9
37.5°	1152.9	1159.1	1170.9	1193.3	1201.9
40°	1076.5	1082.7	1093.9	1114.4	1123.1
42.5°	994.6	1005.1	1016.9	1032.5	1041.2
45°	917.0	925.7	934.4	948.0	954.2
47.5°	840.0	845.6	853.7	864.8	868.6
50°	759.9	766.1	772.9	781.0	786.6
52.5°	686.7	690.4	695.3	700.3	704.0
55°	617.7	617.1	620.2	624.6	626.4
57.5°	547.6	548.2	550.1	552.5	553.8
60°	483.6	483.0	483.6	484.9	483.6
62.5°	423.4	422.8	422.2	423.4	424.0
65°	368.8	367.5	366.9	368.8	368.8
67.5°	318.5	317.3	316.0	319.7	319.1
70°	272.5	271.9	270.1	275.0	276.3
72.5°	229.7	230.3	228.5	238.4	239.6
75°	191.2	193.1	191.8	201.8	205.5
77.5°	157.7	160.2	160.8	169.5	173.8
80°	125.4	127.3	129.8	138.4	144.0
82.5°	95.6	96.9	101.8	107.4	111.8
85°	65.8	67.7	70.2	77.6	80.1
87.5°	34.1	36.0	37.9	44.7	43.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)