

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: P798213

Luminaire Tested: 22GRSCT3-F1-UNV-MID-3000K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798213  
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-MID-3000K  
Description: GRLED Selectable  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

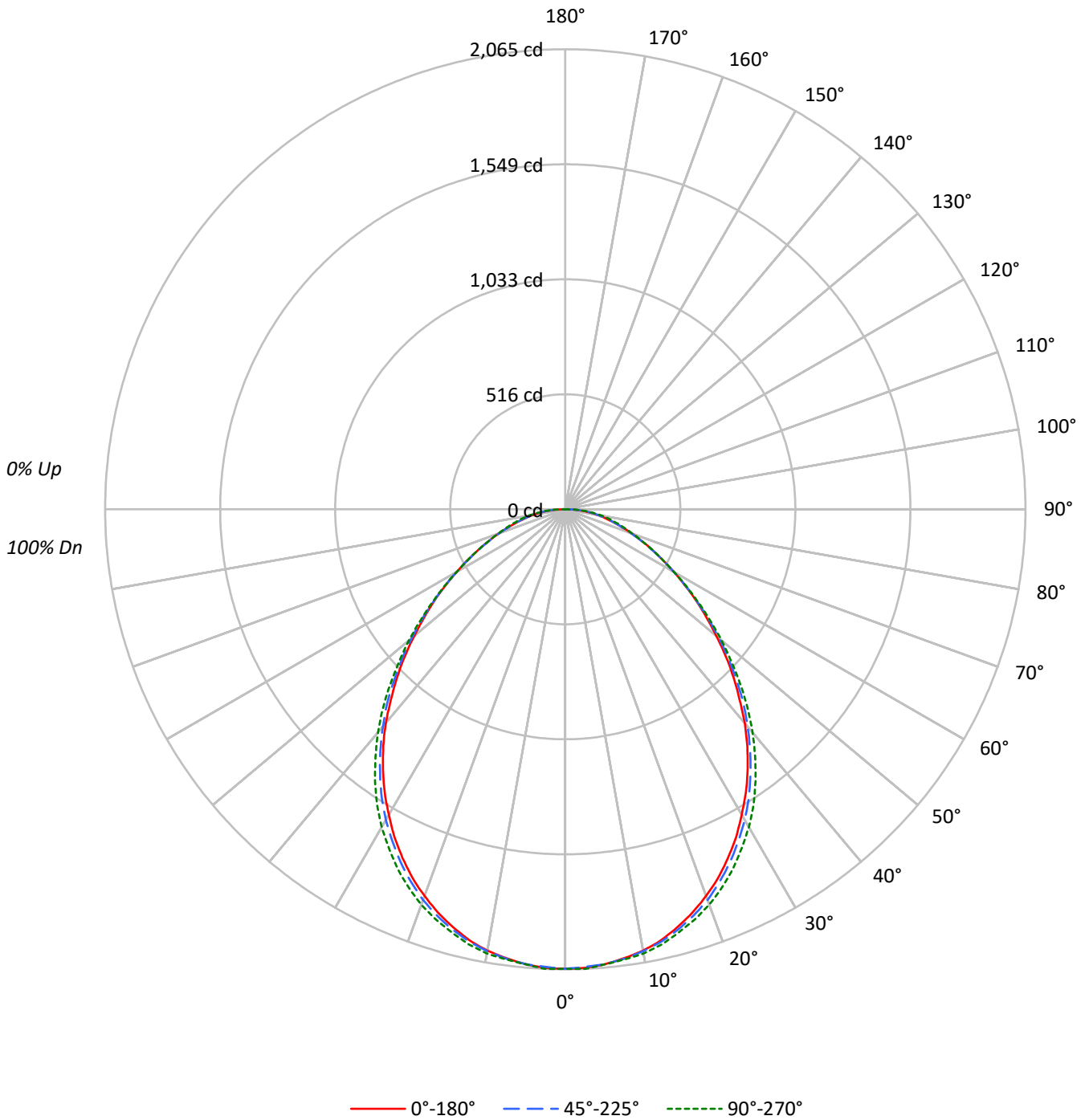
Lumens per Lamp: N/A  
Luminaire Lumens: 4707.0 lumens  
Efficiency: N/A  
Efficacy: 123.5 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.25  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.1  
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: P798213  
CATALOG NUMBER: 22GRSCT3-F1-UNV-MID-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P798213  
 CATALOG NUMBER: 22GRSCT3-F1-UNV-MID-3000K

**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	102	102	102	100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	65	65	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	56	56	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	50	50	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	44	44	44	42
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40	40	40	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	36	36	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	32	32	32	32	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	30	30	30	28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5550	5550	5550
5°	5536	5535	5538
10°	5498	5504	5533
15°	5412	5442	5478
20°	5290	5344	5408
25°	5129	5191	5285
30°	4919	5004	5118
35°	4685	4761	4889
40°	4401	4472	4591
45°	4061	4138	4226
50°	3702	3765	3832
55°	3372	3386	3420
60°	3029	3029	3029
65°	2732	2719	2732
70°	2496	2473	2530
75°	2313	2321	2486
80°	2261	2340	2597
85°	2365	2519	2878

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4226 cd/sqm



TEST NUMBER: P798213  
 CATALOG NUMBER: 22GRSCT3-F1-UNV-MID-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.6	4.1
10°-20°	550.7	11.7
20°-30°	805.3	17.1
30°-40°	907.4	19.3
40°-50°	839.5	17.8
50°-60°	648.4	13.8
60°-70°	427.9	9.1
70°-80°	244.3	5.2
80°-90°	88.7	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°	1550.7	32.9
0°-40°	2458.1	52.2
0°-60°	3946.0	83.8
0°-90°	4707.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4707.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2063	2063	2063	2063	2063	
5°	2050	2052	2049	2049	2050	194
15°	1943	1950	1954	1961	1966	547
25°	1727	1737	1748	1768	1780	794
35°	1426	1436	1449	1475	1488	890
45°	1067	1077	1087	1103	1110	823
55°	719	718	722	727	729	643
65°	429	428	427	429	429	428
75°	222	225	223	235	239	239
85°	77	79	82	90	93	82
90°	0	0	0	0	0	



TEST NUMBER: P798213

CATALOG NUMBER: 22GRSCT3-F1-UNV-MID-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2062.6	2062.6	2062.6	2062.6	2062.6
2.5°	2060.4	2062.6	2056.1	2059.7	2064.8
5°	2049.6	2052.5	2048.9	2048.9	2050.3
7.5°	2032.2	2036.6	2034.4	2036.6	2038.0
10°	2012.0	2015.6	2014.2	2020.0	2025.0
12.5°	1982.4	1986.7	1988.2	1995.4	2000.5
15°	1942.7	1949.9	1953.5	1960.7	1966.5
17.5°	1898.6	1906.5	1913.0	1922.4	1931.1
20°	1847.3	1856.7	1866.1	1878.4	1888.5
22.5°	1791.7	1800.3	1809.7	1826.3	1837.9
25°	1727.4	1736.8	1748.3	1767.8	1780.1
27.5°	1659.5	1668.1	1680.4	1702.8	1714.4
30°	1582.9	1595.2	1610.3	1632.7	1647.2
32.5°	1508.5	1518.6	1533.0	1556.2	1572.0
35°	1426.1	1435.5	1449.2	1475.2	1488.2
37.5°	1341.6	1348.8	1362.5	1388.5	1398.7
40°	1252.7	1259.9	1273.0	1296.8	1306.9
42.5°	1157.4	1169.6	1183.4	1201.4	1211.5
45°	1067.1	1077.2	1087.3	1103.2	1110.4
47.5°	977.5	984.0	993.4	1006.4	1010.7
50°	884.3	891.5	899.4	908.8	915.3
52.5°	799.0	803.4	809.1	814.9	819.3
55°	718.8	718.1	721.7	726.8	728.9
57.5°	637.2	637.9	640.1	643.0	644.4
60°	562.8	562.1	562.8	564.2	562.8
62.5°	492.7	492.0	491.3	492.7	493.4
65°	429.1	427.7	427.0	429.1	429.1
67.5°	370.6	369.2	367.7	372.1	371.3
70°	317.2	316.4	314.3	320.0	321.5
72.5°	267.3	268.0	265.9	277.4	278.9
75°	222.5	224.7	223.2	234.8	239.1
77.5°	183.5	186.4	187.1	197.2	202.3
80°	145.9	148.1	151.0	161.1	167.6
82.5°	111.3	112.7	118.5	125.0	130.0
85°	76.6	78.7	81.6	90.3	93.2
87.5°	39.7	41.9	44.1	52.0	50.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)