

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: P798193

Luminaire Tested: 22GRSCT3-A19 156-UNV-LOW-3000K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798193  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P292552)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 22GRSCT3-A19 156-UNV-LOW-3000K  
Description: GRLED Selectable  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

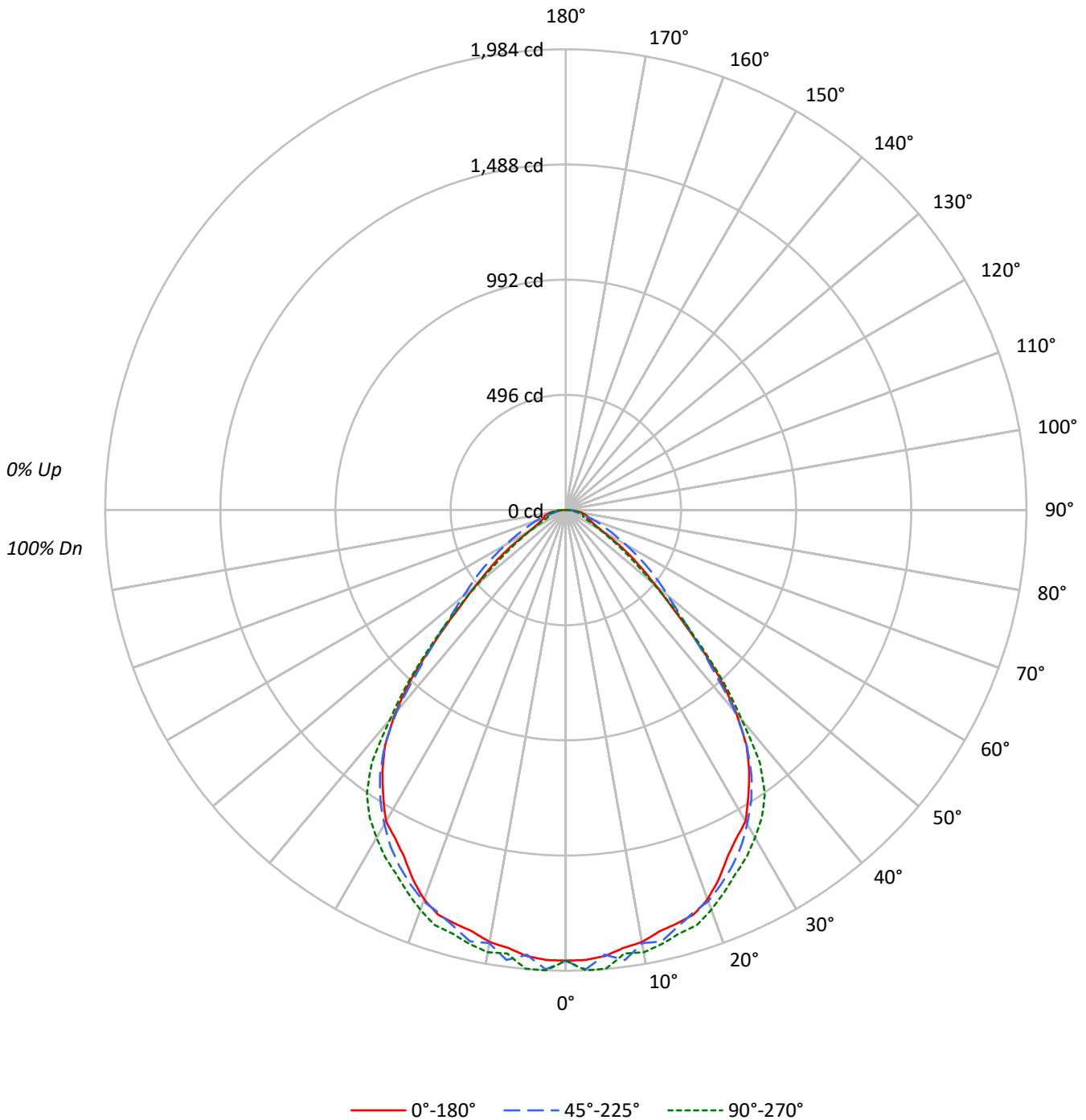
Lumens per Lamp: N/A  
Luminaire Lumens: 3723.4 lumens  
Efficiency: N/A  
Efficacy: 126.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.21  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P798193  
CATALOG NUMBER: 22GRSCT3-A19 156-UNV-LOW-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P798193

CATALOG NUMBER: 22GRSCT3-A19 156-UNV-LOW-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	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	90	90	90	88
2	103	96	90	85	100	94	89	85	91	86	83	88	84	81	85	82	79	79	79	79	77
3	95	86	79	74	93	85	79	73	82	77	72	79	75	71	77	73	70	70	70	70	68
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62	62	62	62	60
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	59	56	56	56	56	54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	50	50	50	48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	45	45	45	44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41	41	41	41	40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	38	38	38	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	35	35	35	33

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

	0°	45°	90°
0°	5222	5222	5222
5°	5209	5192	5356
10°	5161	5175	5283
15°	5137	5177	5260
20°	5110	5135	5246
25°	4892	5030	5134
30°	4812	4855	5062
35°	4525	4582	4908
40°	4010	3982	4138
45°	2995	3001	3084
50°	2108	2398	2042
55°	1556	2025	1395
60°	973	1601	911
65°	793	1268	636
70°	786	1056	629
75°	975	775	812
80°	1088	612	992
85°	1084	1139	1108

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 3239 cd/sqm



TEST NUMBER: P798193  
 CATALOG NUMBER: 22GRSCT3-A19 156-UNV-LOW-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.7	5.0
10°-20°	526.2	14.1
20°-30°	779.3	20.9
30°-40°	872.9	23.4
40°-50°	641.4	17.2
50°-60°	358.5	9.6
60°-70°	199.8	5.4
70°-80°	117.4	3.2
80°-90°	43.1	1.2
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°	1490.2	40.0
0°-40°	2363.1	63.5
0°-60°	3363.1	90.3
0°-90°	3723.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3723.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1941	1941	1941	1941	1941	
5°	1928	1964	1922	1962	1983	182
15°	1844	1855	1858	1886	1888	521
25°	1648	1661	1694	1718	1729	764
35°	1377	1378	1395	1458	1494	853
45°	787	851	789	845	810	615
55°	332	404	432	431	297	296
65°	124	221	199	255	100	129
75°	94	132	74	150	78	94
85°	35	52	37	47	36	38
90°	0	0	0	0	0	



TEST NUMBER: P798193

CATALOG NUMBER: 22GRSCT3-A19 156-UNV-LOW-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1940.6	1940.6	1940.6	1940.6	1940.6
2.5°	1939.6	1957.3	1980.1	1982.7	1984.5
5°	1928.3	1964.2	1922.2	1961.7	1982.7
7.5°	1902.0	1924.0	1954.5	1915.1	1926.6
10°	1888.9	1894.0	1894.0	1943.2	1933.5
12.5°	1859.0	1894.0	1902.8	1893.3	1914.3
15°	1844.1	1855.4	1858.2	1886.1	1887.9
17.5°	1827.4	1824.9	1818.7	1838.7	1874.8
20°	1784.4	1774.7	1793.1	1817.7	1831.8
22.5°	1721.2	1723.9	1745.7	1766.0	1781.8
25°	1647.6	1660.7	1694.0	1717.8	1729.1
27.5°	1592.3	1611.5	1634.3	1662.5	1685.3
30°	1548.5	1546.7	1562.5	1602.8	1629.2
32.5°	1463.4	1469.6	1486.2	1534.4	1571.3
35°	1377.4	1378.2	1394.8	1458.1	1493.9
37.5°	1278.2	1271.3	1280.8	1349.2	1373.0
40°	1141.4	1143.0	1133.5	1181.7	1178.1
42.5°	981.6	995.7	945.7	1008.8	1004.4
45°	786.9	851.0	788.7	844.8	810.5
47.5°	621.2	715.9	664.2	705.4	641.4
50°	503.6	600.9	572.8	591.2	487.7
52.5°	413.2	492.1	501.0	505.4	380.7
55°	331.7	403.5	431.6	430.8	297.4
57.5°	244.9	328.1	360.6	373.7	225.4
60°	180.8	272.8	297.4	326.3	169.3
62.5°	145.7	239.5	245.7	285.9	128.9
65°	124.5	221.1	199.1	255.4	99.9
67.5°	110.6	206.2	162.4	228.0	85.1
70°	99.9	183.4	134.2	204.4	79.9
72.5°	97.3	156.2	103.5	182.4	78.9
75°	93.8	132.4	74.5	150.1	78.1
77.5°	80.7	113.2	53.5	115.8	72.8
80°	70.2	90.4	39.5	86.8	64.0
82.5°	54.3	68.4	35.1	65.8	51.7
85°	35.1	51.7	36.9	47.4	35.9
87.5°	16.7	28.9	26.4	25.4	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)