

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: P798139

Luminaire Tested: 14GRSCT3-A19 156-UNV-LOW-3500K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798139  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P291376)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 14GRSCT3-A19 156-UNV-LOW-3500K  
Description: GRLED Selectable  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

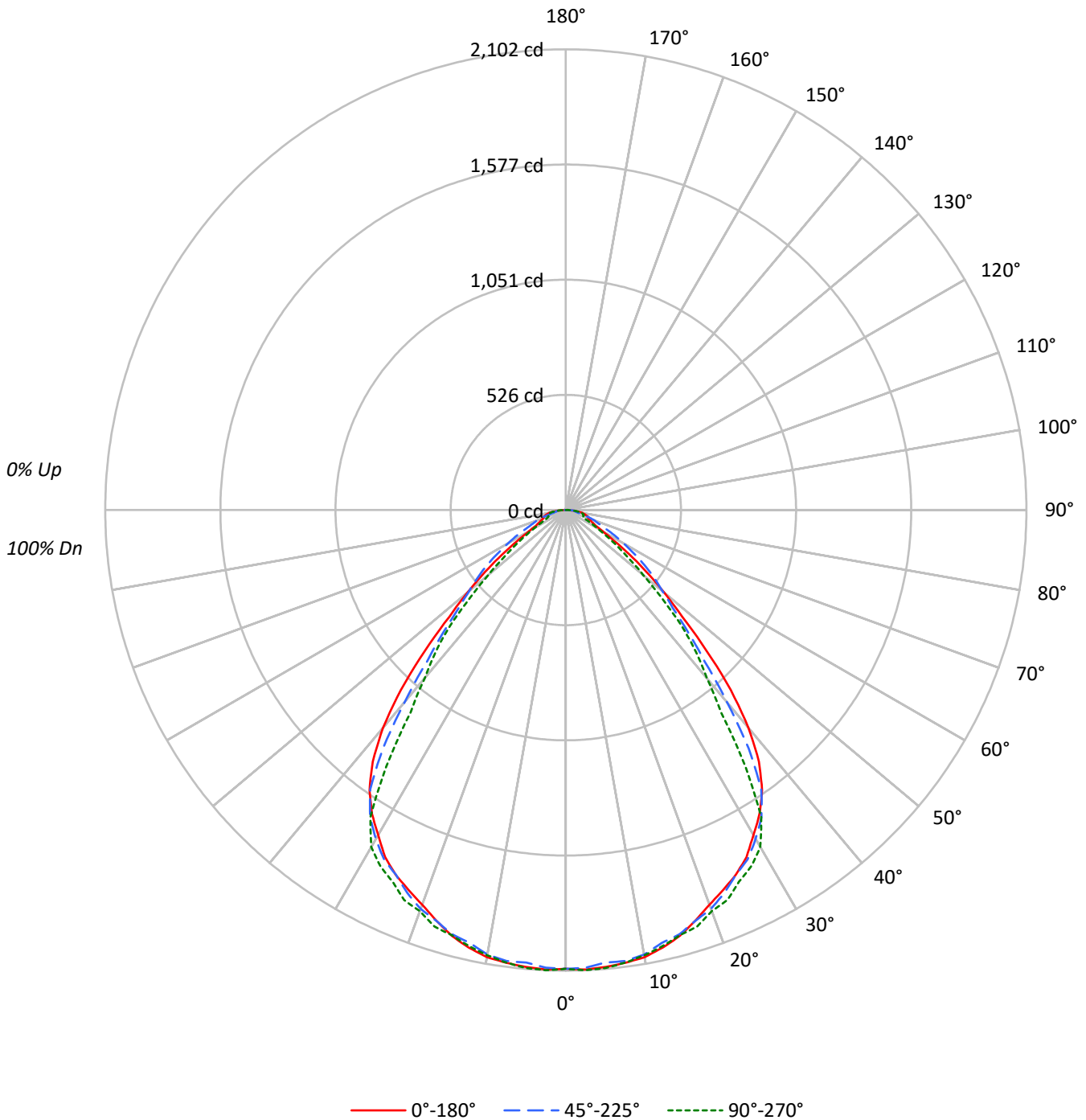
Lumens per Lamp: N/A  
Luminaire Lumens: 3936.7 lumens  
Efficiency: N/A  
Efficacy: 135.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.18  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 29.1  
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: P798139  
CATALOG NUMBER: 14GRSCT3-A19 156-UNV-LOW-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P798139

CATALOG NUMBER: 14GRSCT3-A19 156-UNV-LOW-3500K

**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	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79	79	79	79	77
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	70	70	70	68
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	63	63	63	61
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	56	56	56	54
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51	51	51	51	49
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	46	46	46	44
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	42	42	42	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	38	38	38	37
10	60	48	40	36	58	47	40	36	46	40	35	45	39	35	44	39	35	35	35	35	34

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

	0°	45°	90°
0°	5633	5633	5633
5°	5652	5599	5665
10°	5661	5626	5636
15°	5603	5583	5596
20°	5487	5546	5576
25°	5453	5450	5554
30°	5320	5384	5516
35°	5130	5110	4695
40°	4555	4020	3520
45°	3457	3008	2846
50°	2452	2407	1931
55°	1678	2055	1328
60°	1038	1639	887
65°	855	1262	642
70°	851	1100	660
75°	1022	788	882
80°	1175	727	1105
85°	1112	1281	1250

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 3608 cd/sqm



TEST NUMBER: P798139  
 CATALOG NUMBER: 14GRSCT3-A19 156-UNV-LOW-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.6	5.0
10°-20°	566.9	14.4
20°-30°	852.5	21.7
30°-40°	929.4	23.6
40°-50°	650.8	16.5
50°-60°	368.4	9.4
60°-70°	201.6	5.1
70°-80°	122.2	3.1
80°-90°	46.3	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°	1618.0	41.1
0°-40°	2547.4	64.7
0°-60°	3566.6	90.6
0°-90°	3936.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3936.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2093	2093	2093	2093	2093	
5°	2092	2089	2073	2097	2097	199
15°	2011	2006	2004	2033	2009	566
25°	1836	1840	1836	1878	1871	843
35°	1562	1554	1555	1476	1429	962
45°	908	948	790	780	748	705
55°	358	428	438	434	283	327
65°	134	221	198	250	101	138
75°	98	142	76	149	85	102
85°	36	59	42	50	40	40
90°	0	0	0	0	0	



TEST NUMBER: P798139

CATALOG NUMBER: 14GRSCT3-A19 156-UNV-LOW-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2093.3	2093.3	2093.3	2093.3	2093.3
2.5°	2098.7	2096.1	2089.7	2102.3	2101.5
5°	2092.5	2088.8	2072.6	2097.0	2097.0
7.5°	2083.5	2074.5	2075.3	2088.8	2082.6
10°	2071.7	2056.3	2059.1	2062.7	2062.7
12.5°	2044.7	2030.2	2023.1	2034.7	2038.3
15°	2011.3	2006.0	2004.1	2033.0	2008.6
17.5°	1964.5	1976.2	1965.3	1988.9	1992.5
20°	1915.9	1938.3	1936.6	1952.7	1947.3
22.5°	1876.3	1890.6	1890.6	1910.5	1926.6
25°	1836.4	1840.1	1835.6	1878.0	1870.7
27.5°	1785.1	1782.5	1796.8	1818.5	1832.8
30°	1712.1	1713.1	1732.8	1761.7	1775.2
32.5°	1645.5	1637.4	1661.8	1674.4	1659.8
35°	1561.6	1554.5	1555.4	1476.0	1429.3
37.5°	1447.3	1453.5	1370.6	1225.5	1164.3
40°	1296.8	1309.4	1144.4	1036.3	1002.0
42.5°	1114.6	1118.3	938.0	902.9	880.4
45°	908.3	948.1	790.3	780.5	747.9
47.5°	720.1	794.0	662.3	668.7	591.2
50°	585.7	659.5	575.0	577.5	461.3
52.5°	463.2	535.4	507.3	499.2	362.2
55°	357.7	428.1	438.0	434.3	283.0
57.5°	263.1	338.9	367.8	381.2	218.1
60°	192.9	276.6	304.6	331.6	164.8
62.5°	153.3	239.8	249.6	289.2	128.0
65°	134.2	220.7	198.2	250.5	100.8
67.5°	119.9	210.0	161.4	221.8	88.4
70°	108.1	189.2	139.8	198.2	83.9
72.5°	108.1	165.9	110.0	175.7	84.8
75°	98.3	141.5	75.8	148.8	84.8
77.5°	87.3	120.7	56.7	120.7	79.2
80°	75.8	94.6	46.9	92.9	71.3
82.5°	55.9	71.3	40.5	69.4	57.6
85°	36.0	58.7	41.5	50.5	40.5
87.5°	17.1	29.8	26.1	25.3	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)