

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: P798194

Luminaire Tested: 22GRSCT3-A19 156-UNV-LOW-4000K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798194  
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-4000K  
Description: GRLED Selectable  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

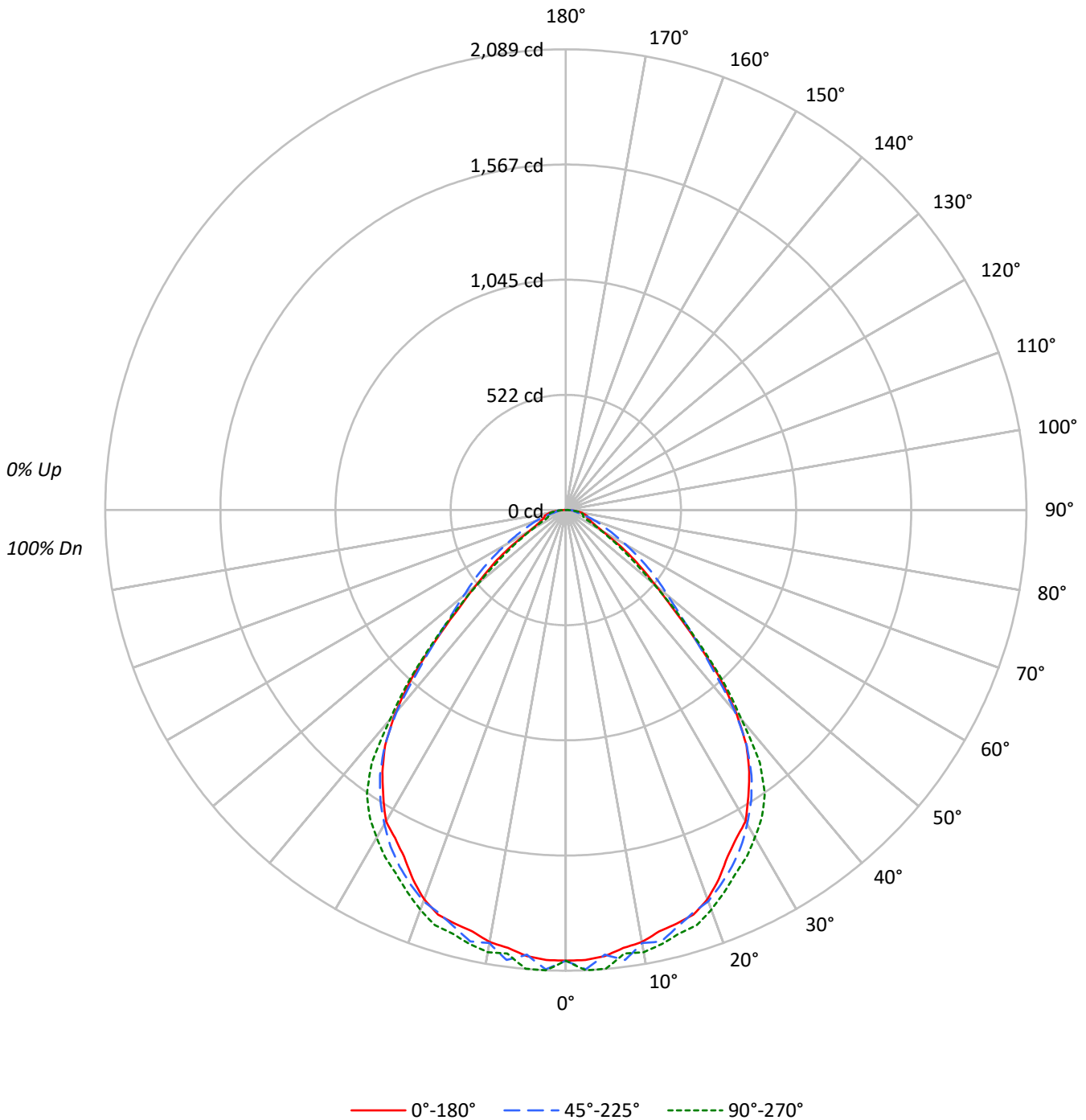
Lumens per Lamp: N/A  
Luminaire Lumens: 3920.4 lumens  
Efficiency: N/A  
Efficacy: 132.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.21  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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



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

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

	0°	45°	90°
0°	5498	5498	5498
5°	5484	5467	5639
10°	5434	5449	5563
15°	5409	5450	5538
20°	5380	5407	5523
25°	5151	5296	5405
30°	5066	5112	5330
35°	4764	4824	5167
40°	4222	4193	4357
45°	3153	3160	3248
50°	2220	2525	2150
55°	1638	2132	1469
60°	1025	1685	960
65°	835	1335	670
70°	828	1112	662
75°	1026	816	855
80°	1145	643	1044
85°	1139	1198	1167

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 3410 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.5	5.0
10°-20°	554.0	14.1
20°-30°	820.5	20.9
30°-40°	919.1	23.4
40°-50°	675.3	17.2
50°-60°	377.5	9.6
60°-70°	210.4	5.4
70°-80°	123.6	3.2
80°-90°	45.4	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°	1569.0	40.0
0°-40°	2488.2	63.5
0°-60°	3541.0	90.3
0°-90°	3920.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3920.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2043	2043	2043	2043	2043	
5°	2030	2068	2024	2065	2088	192
15°	1942	1954	1956	1986	1988	548
25°	1735	1748	1784	1809	1820	804
35°	1450	1451	1469	1535	1573	898
45°	828	896	830	890	853	647
55°	349	425	454	454	313	312
65°	131	233	210	269	105	136
75°	99	139	78	158	82	99
85°	37	54	39	50	38	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2043.3	2043.3	2043.3	2043.3	2043.3
2.5°	2042.2	2060.8	2084.8	2087.5	2089.4
5°	2030.3	2068.1	2023.9	2065.4	2087.5
7.5°	2002.6	2025.8	2057.9	2016.4	2028.5
10°	1988.8	1994.2	1994.2	2046.0	2035.8
12.5°	1957.3	1994.2	2003.4	1993.4	2015.5
15°	1941.6	1953.5	1956.4	1985.9	1987.8
17.5°	1924.1	1921.4	1914.9	1936.0	1974.0
20°	1878.8	1868.6	1888.0	1913.9	1928.7
22.5°	1812.2	1815.1	1838.1	1859.4	1876.1
25°	1734.8	1748.5	1783.6	1808.7	1820.5
27.5°	1676.5	1696.8	1720.8	1750.4	1774.4
30°	1630.4	1628.5	1645.2	1687.6	1715.3
32.5°	1540.8	1547.3	1564.8	1615.6	1654.4
35°	1450.2	1451.1	1468.6	1535.2	1573.0
37.5°	1345.8	1338.5	1348.6	1420.6	1445.6
40°	1201.8	1203.5	1193.5	1244.2	1240.4
42.5°	1033.5	1048.4	995.8	1062.1	1057.6
45°	828.5	896.0	830.4	889.5	853.4
47.5°	654.0	753.8	699.3	742.7	675.3
50°	530.2	632.7	603.1	622.5	513.5
52.5°	435.0	518.1	527.5	532.1	400.8
55°	349.2	424.8	454.5	453.6	313.1
57.5°	257.8	345.5	379.7	393.5	237.4
60°	190.4	287.2	313.1	343.6	178.3
62.5°	153.4	252.2	258.6	301.0	135.7
65°	131.1	232.8	209.6	268.9	105.2
67.5°	116.5	217.1	171.0	240.1	89.6
70°	105.2	193.1	141.3	215.2	84.1
72.5°	102.5	164.5	109.0	192.1	83.1
75°	98.7	139.4	78.5	158.0	82.2
77.5°	85.0	119.2	56.4	121.9	76.6
80°	73.9	95.2	41.5	91.4	67.4
82.5°	57.2	72.0	36.9	69.3	54.5
85°	36.9	54.5	38.8	49.9	37.8
87.5°	17.5	30.5	27.8	26.7	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)