

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: P798192

Luminaire Tested: 22GRSCT3-A19 156-UNV-LOW--3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798192
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--3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

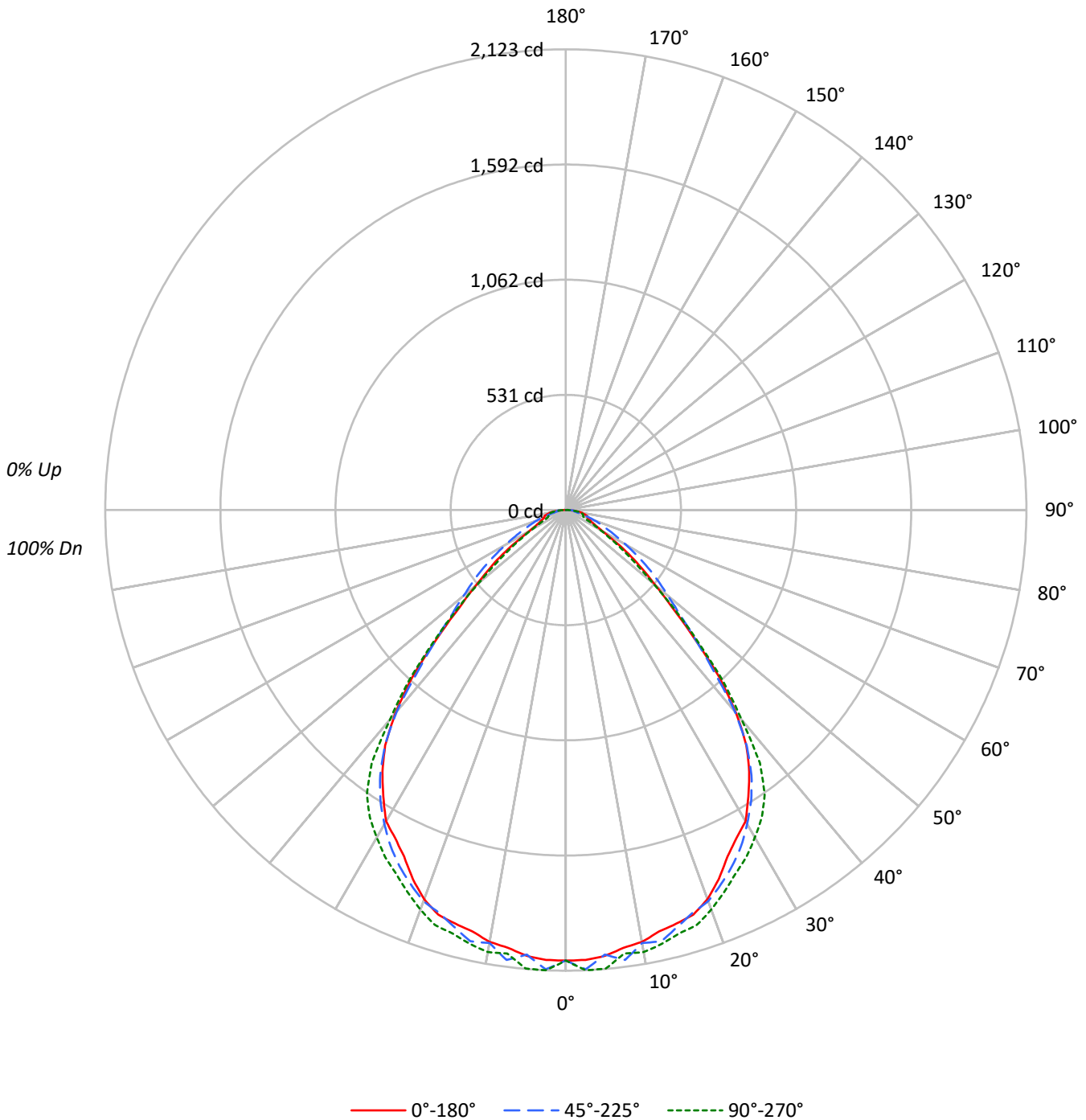
Lumens per Lamp: N/A
Luminaire Lumens: 3983.4 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.21
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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°	5587	5587	5587
5°	5573	5555	5730
10°	5522	5537	5652
15°	5496	5538	5627
20°	5467	5493	5612
25°	5233	5381	5492
30°	5148	5194	5416
35°	4841	4902	5251
40°	4290	4260	4428
45°	3204	3211	3300
50°	2256	2565	2184
55°	1665	2167	1493
60°	1041	1713	975
65°	848	1356	681
70°	841	1130	673
75°	1043	830	869
80°	1164	654	1062
85°	1158	1220	1186

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 3465 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.6	5.0
10°-20°	562.9	14.1
20°-30°	833.7	20.9
30°-40°	933.9	23.4
40°-50°	686.2	17.2
50°-60°	383.6	9.6
60°-70°	213.8	5.4
70°-80°	125.6	3.2
80°-90°	46.2	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°	1594.2	40.0
0°-40°	2528.1	63.5
0°-60°	3597.9	90.3
0°-90°	3983.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3983.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2076	2076	2076	2076	2076	
5°	2063	2101	2056	2099	2121	195
15°	1973	1985	1988	2018	2020	557
25°	1763	1777	1812	1838	1850	817
35°	1474	1474	1492	1560	1598	913
45°	842	910	844	904	867	658
55°	355	432	462	461	318	317
65°	133	236	213	273	107	138
75°	100	142	80	161	84	101
85°	38	55	40	51	38	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2076.1	2076.1	2076.1	2076.1	2076.1
2.5°	2075.1	2094.0	2118.3	2121.1	2123.0
5°	2063.0	2101.4	2056.4	2098.6	2121.1
7.5°	2034.8	2058.3	2091.0	2048.8	2061.1
10°	2020.8	2026.3	2026.3	2078.9	2068.5
12.5°	1988.7	2026.3	2035.6	2025.4	2047.9
15°	1972.8	1984.9	1987.9	2017.8	2019.7
17.5°	1955.0	1952.3	1945.7	1967.1	2005.7
20°	1909.0	1898.6	1918.3	1944.6	1959.7
22.5°	1841.3	1844.3	1867.6	1889.3	1906.2
25°	1762.6	1776.6	1812.3	1837.7	1849.8
27.5°	1703.5	1724.0	1748.4	1778.5	1802.9
30°	1656.6	1654.7	1671.6	1714.7	1742.9
32.5°	1565.6	1572.2	1590.0	1641.5	1681.0
35°	1473.5	1474.4	1492.2	1559.9	1598.3
37.5°	1367.5	1360.1	1370.2	1443.4	1468.9
40°	1221.1	1222.8	1212.6	1264.2	1260.4
42.5°	1050.2	1065.2	1011.8	1079.2	1074.6
45°	841.9	910.4	843.8	903.8	867.1
47.5°	664.5	765.9	710.6	754.7	686.2
50°	538.8	642.9	612.8	632.5	521.8
52.5°	442.0	526.5	536.0	540.7	407.3
55°	354.9	431.6	461.8	460.9	318.2
57.5°	262.0	351.0	385.8	399.8	241.2
60°	193.4	291.9	318.2	349.1	181.1
62.5°	155.9	256.2	262.8	305.9	137.9
65°	133.2	236.5	213.0	273.2	106.9
67.5°	118.4	220.6	173.7	243.9	91.0
70°	106.9	196.2	143.6	218.7	85.5
72.5°	104.1	167.1	110.7	195.1	84.4
75°	100.3	141.7	79.8	160.6	83.6
77.5°	86.3	121.1	57.3	123.9	77.8
80°	75.1	96.7	42.2	92.9	68.5
82.5°	58.1	73.2	37.5	70.4	55.4
85°	37.5	55.4	39.5	50.7	38.4
87.5°	17.8	31.0	28.2	27.2	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)