

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: P798247

Luminaire Tested: 24GRSCT3-A19 156-UNV-LOW-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P293962)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24GRSCT3-A19 156-UNV-LOW-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

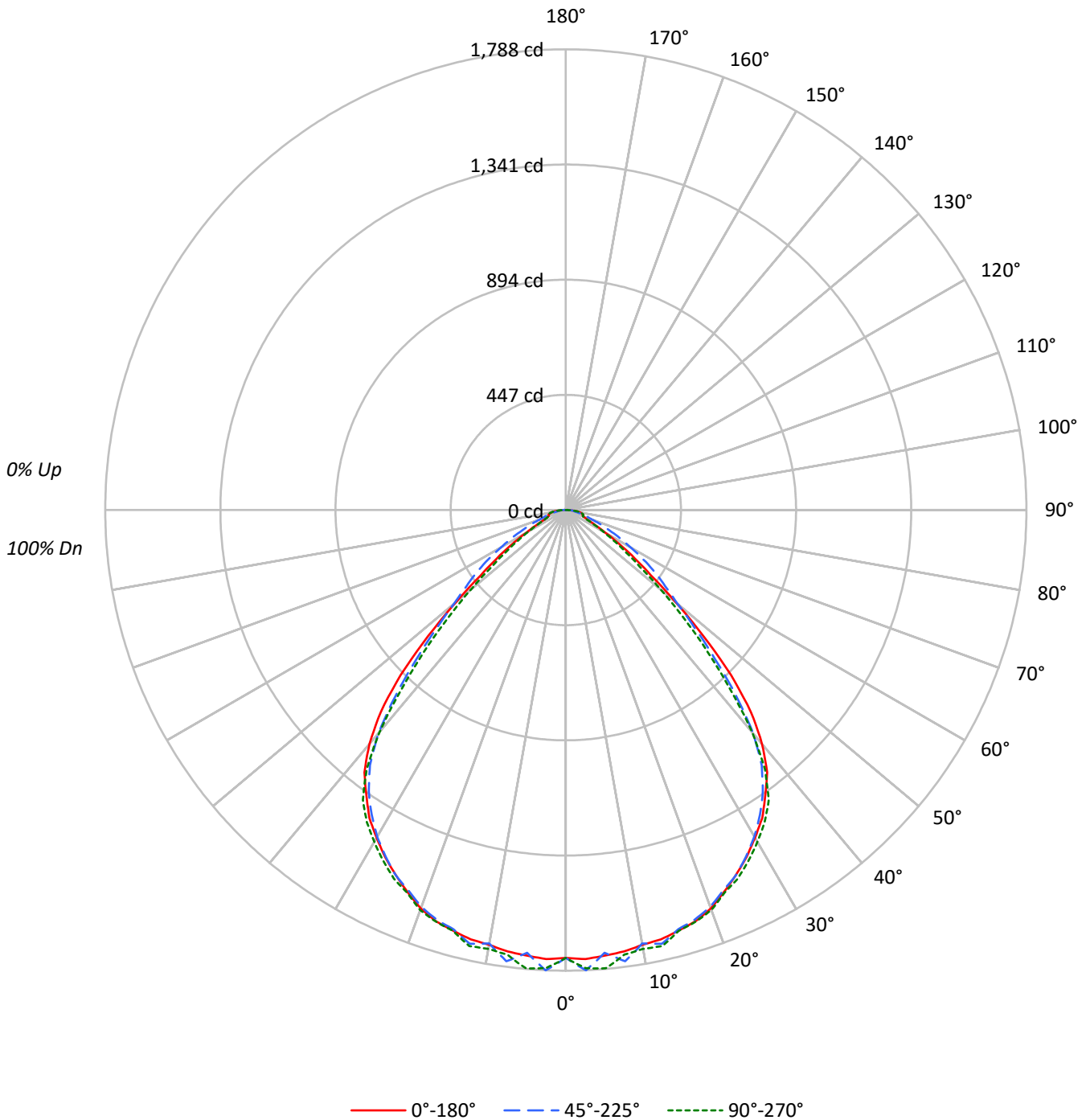
Lumens per Lamp: N/A
Luminaire Lumens: 3516.5 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.6
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	92	90	90	90	90	88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	79	79	79	77
3	95	86	79	74	93	85	78	73	82	77	72	79	75	71	77	73	70	70	70	70	68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	62	62	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	55	55	55	53
6	76	65	57	51	75	64	56	51	62	55	50	60	55	50	59	54	50	50	50	50	48
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	45	45	45	43
8	67	55	47	42	65	54	47	41	53	46	41	51	45	41	50	45	41	41	41	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	37	37	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	34	34	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2340	2340	2340
5°	2345	2329	2412
10°	2341	2334	2363
15°	2355	2347	2356
20°	2356	2347	2366
25°	2320	2321	2344
30°	2281	2274	2311
35°	2217	2190	2256
40°	2082	1989	1978
45°	1726	1561	1481
50°	1161	1184	1012
55°	766	994	664
60°	491	784	454
65°	316	599	308
70°	280	429	280
75°	361	341	364
80°	442	294	463
85°	514	437	540

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 1727 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.5	4.7
10°-20°	478.0	13.6
20°-30°	719.7	20.5
30°-40°	834.2	23.7
40°-50°	651.6	18.5
50°-60°	347.9	9.9
60°-70°	178.9	5.1
70°-80°	101.2	2.9
80°-90°	38.5	1.1
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°	1364.2	38.8
0°-40°	2198.3	62.5
0°-60°	3197.9	90.9
0°-90°	3516.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3516.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1739	1739	1739	1739	1739	
5°	1736	1785	1725	1772	1786	165
15°	1690	1701	1685	1695	1691	477
25°	1563	1558	1564	1562	1579	720
35°	1350	1344	1333	1360	1373	841
45°	907	908	821	813	778	683
55°	326	413	424	382	283	301
65°	99	207	188	207	97	109
75°	70	130	66	122	70	70
85°	33	44	28	44	35	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1738.8	1738.8	1738.8	1738.8	1738.8
2.5°	1744.4	1776.0	1788.4	1773.2	1780.1
5°	1736.0	1784.6	1724.6	1772.0	1785.6
7.5°	1728.0	1723.0	1766.5	1721.3	1740.5
10°	1713.4	1716.8	1708.2	1740.5	1729.2
12.5°	1706.5	1726.3	1724.6	1708.2	1733.2
15°	1690.3	1701.0	1684.6	1695.3	1691.3
17.5°	1673.9	1668.7	1667.0	1671.5	1675.5
20°	1645.6	1628.6	1638.9	1640.0	1652.4
22.5°	1604.9	1594.8	1597.0	1607.2	1608.4
25°	1562.6	1557.5	1563.7	1561.5	1578.9
27.5°	1518.6	1511.7	1515.7	1524.1	1534.9
30°	1468.3	1466.5	1463.8	1471.0	1487.4
32.5°	1418.6	1405.0	1402.8	1418.1	1436.7
35°	1349.7	1343.5	1333.3	1359.8	1373.4
37.5°	1284.2	1265.0	1248.6	1264.5	1270.0
40°	1185.4	1170.7	1132.3	1134.0	1126.1
42.5°	1064.0	1053.3	979.7	966.8	944.7
45°	906.9	907.5	820.6	813.2	778.2
47.5°	724.5	756.8	681.1	672.5	620.6
50°	554.6	612.7	565.8	552.3	483.4
52.5°	416.2	501.5	486.8	457.4	362.5
55°	326.5	412.7	423.6	381.7	282.9
57.5°	245.7	340.0	357.5	323.0	218.6
60°	182.4	286.3	291.4	277.9	168.8
62.5°	135.5	243.4	236.7	238.3	125.3
65°	99.3	207.2	188.1	206.7	96.6
67.5°	81.3	179.6	146.2	179.1	78.5
70°	71.2	159.3	109.0	157.6	71.2
72.5°	68.9	146.2	86.4	140.0	69.5
75°	69.5	130.5	65.5	122.0	70.0
77.5°	63.8	107.4	49.7	103.9	66.7
80°	57.1	81.3	37.9	82.4	59.8
82.5°	48.6	59.3	30.5	61.0	50.3
85°	33.3	43.5	28.3	43.5	35.0
87.5°	15.8	26.0	17.6	24.8	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)