

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: P798196

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798196
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-MID-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

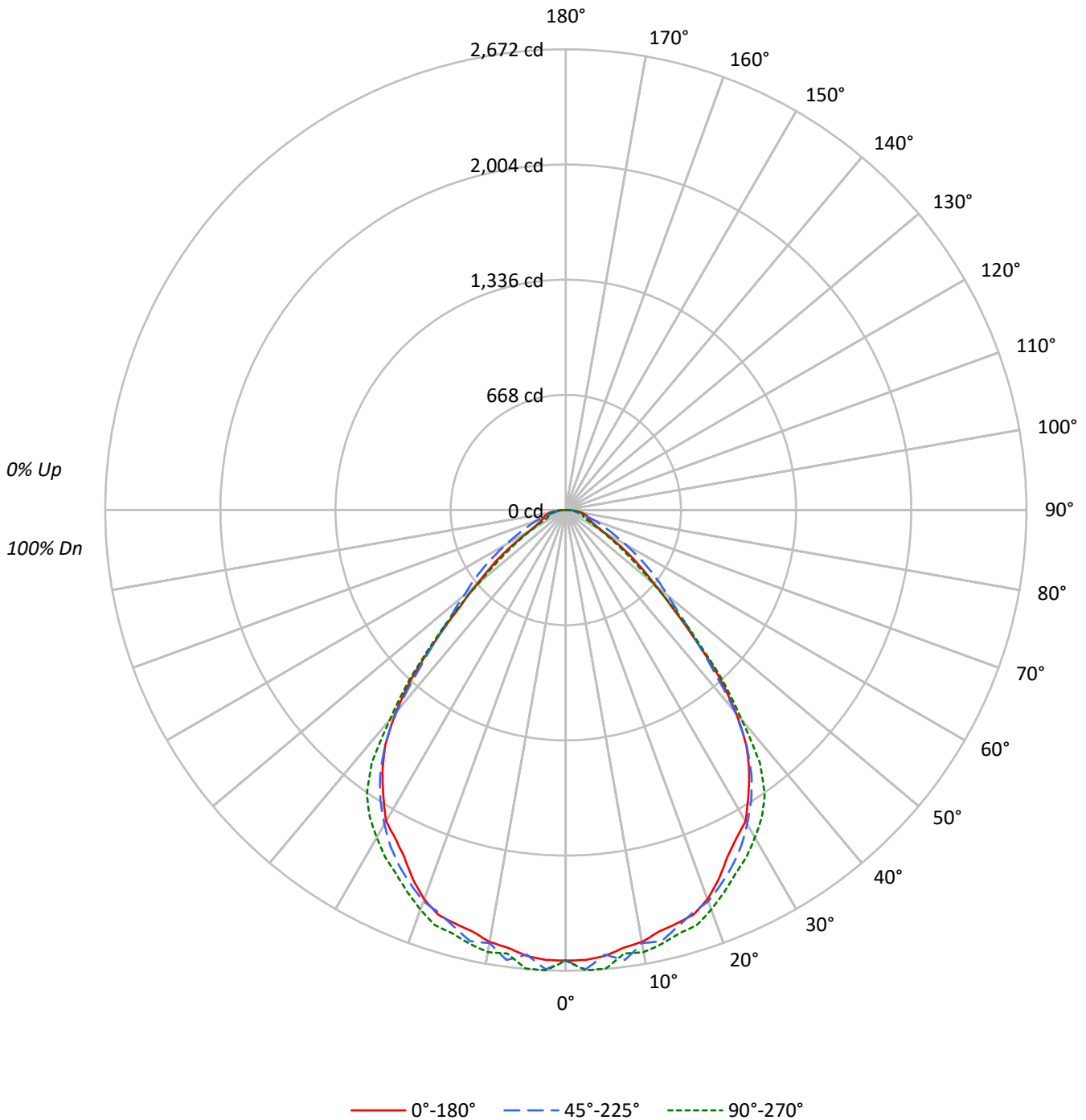
Lumens per Lamp: N/A
Luminaire Lumens: 5013.5 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.21
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 36.6
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				
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°	7032	7032	7032
5°	7014	6991	7211
10°	6950	6969	7114
15°	6917	6970	7082
20°	6880	6914	7063
25°	6587	6772	6913
30°	6479	6537	6816
35°	6093	6170	6608
40°	5399	5361	5572
45°	4032	4042	4153
50°	2839	3229	2749
55°	2095	2727	1879
60°	1311	2155	1227
65°	1068	1706	856
70°	1058	1422	847
75°	1313	1044	1094
80°	1464	823	1336
85°	1460	1535	1491

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 4360 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.7	5.0
10°-20°	708.5	14.1
20°-30°	1049.3	20.9
30°-40°	1175.4	23.4
40°-50°	863.7	17.2
50°-60°	482.8	9.6
60°-70°	269.0	5.4
70°-80°	158.1	3.2
80°-90°	58.1	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°	2006.5	40.0
0°-40°	3181.9	63.5
0°-60°	4528.3	90.3
0°-90°	5013.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5013.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2613	2613	2613	2613	2613	
5°	2596	2645	2588	2641	2670	246
15°	2483	2498	2502	2540	2542	701
25°	2218	2236	2281	2313	2328	1028
35°	1855	1856	1878	1963	2012	1149
45°	1060	1146	1062	1138	1091	828
55°	447	543	581	580	400	398
65°	168	298	268	344	134	174
75°	126	178	100	202	105	127
85°	47	70	50	64	48	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2613.0	2613.0	2613.0	2613.0	2613.0
2.5°	2611.7	2635.4	2666.1	2669.6	2672.0
5°	2596.5	2644.8	2588.2	2641.3	2669.6
7.5°	2561.0	2590.6	2631.7	2578.6	2594.1
10°	2543.3	2550.3	2550.3	2616.5	2603.4
12.5°	2503.0	2550.3	2562.0	2549.2	2577.5
15°	2483.0	2498.2	2502.0	2539.6	2542.0
17.5°	2460.6	2457.1	2448.8	2475.8	2524.4
20°	2402.6	2389.6	2414.4	2447.5	2466.4
22.5°	2317.5	2321.2	2350.6	2377.8	2399.2
25°	2218.4	2236.1	2280.9	2312.9	2328.2
27.5°	2144.0	2169.9	2200.6	2238.5	2269.2
30°	2085.0	2082.6	2103.9	2158.1	2193.6
32.5°	1970.4	1978.7	2001.1	2066.0	2115.7
35°	1854.6	1855.6	1878.1	1963.2	2011.5
37.5°	1721.1	1711.8	1724.6	1816.7	1848.7
40°	1536.9	1539.0	1526.2	1591.1	1586.3
42.5°	1321.7	1340.7	1273.4	1358.3	1352.4
45°	1059.6	1145.8	1062.0	1137.5	1091.3
47.5°	836.4	964.0	894.3	949.8	863.6
50°	678.1	809.2	771.2	796.1	656.7
52.5°	556.3	662.6	674.6	680.5	512.6
55°	446.6	543.3	581.2	580.1	400.4
57.5°	329.7	441.8	485.6	503.2	303.5
60°	243.5	367.3	400.4	439.4	228.0
62.5°	196.2	322.5	330.8	385.0	173.5
65°	167.7	297.7	268.0	343.8	134.5
67.5°	149.0	277.6	218.6	307.0	114.5
70°	134.5	246.9	180.7	275.2	107.6
72.5°	131.1	210.4	139.4	245.6	106.3
75°	126.3	178.3	100.4	202.1	105.2
77.5°	108.7	152.4	72.1	155.9	98.0
80°	94.5	121.7	53.1	116.9	86.2
82.5°	73.1	92.1	47.3	88.6	69.7
85°	47.3	69.7	49.7	63.8	48.3
87.5°	22.4	39.0	35.5	34.2	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)