

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: P798215

Luminaire Tested: 22GRSCT3-F1-UNV-MID-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2311-232-58)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22GRSCT3-F1-UNV-MID-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

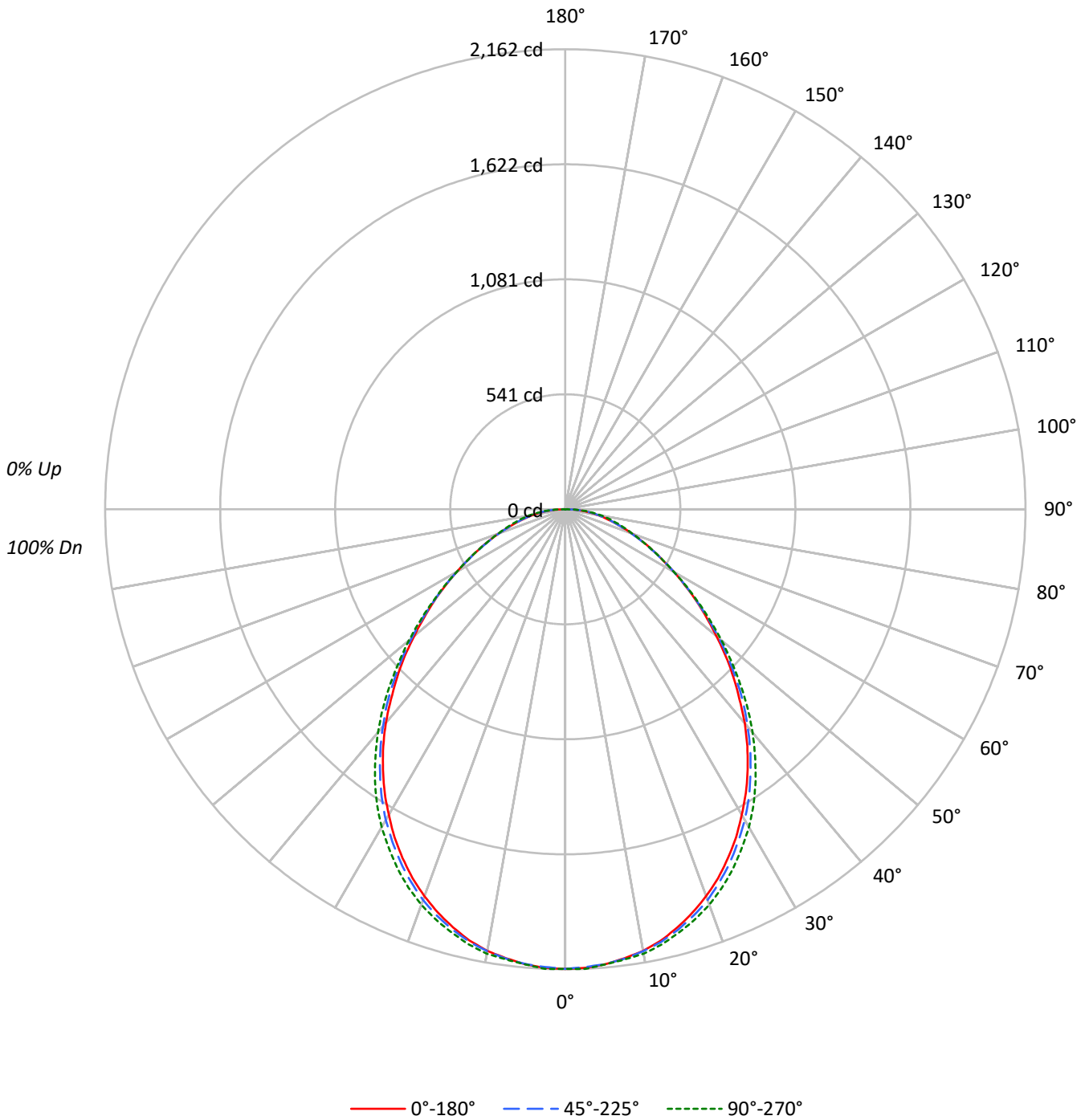
Lumens per Lamp: N/A
Luminaire Lumens: 4929.0 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 38
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	65	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	56	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	50	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	44	44	42
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40	40	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	36	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	32	32	32	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5812	5812	5812
5°	5798	5796	5800
10°	5757	5763	5794
15°	5667	5699	5737
20°	5540	5596	5663
25°	5371	5436	5535
30°	5150	5240	5360
35°	4906	4985	5119
40°	4608	4683	4807
45°	4252	4333	4425
50°	3877	3943	4013
55°	3531	3546	3581
60°	3172	3172	3172
65°	2862	2847	2862
70°	2613	2589	2649
75°	2423	2431	2603
80°	2368	2450	2720
85°	2476	2640	3013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4425 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.8	4.1
10°-20°	576.7	11.7
20°-30°	843.3	17.1
30°-40°	950.2	19.3
40°-50°	879.1	17.8
50°-60°	679.0	13.8
60°-70°	448.1	9.1
70°-80°	255.9	5.2
80°-90°	92.9	1.9
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°	1623.8	32.9
0°-40°	2574.0	52.2
0°-60°	4132.1	83.8
0°-90°	4929.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4929.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2160	2160	2160	2160	2160	
5°	2146	2149	2146	2146	2147	204
15°	2034	2042	2046	2053	2059	573
25°	1809	1819	1831	1851	1864	832
35°	1493	1503	1518	1545	1558	932
45°	1117	1128	1139	1155	1163	862
55°	753	752	756	761	763	673
65°	449	448	447	449	449	449
75°	233	235	234	246	250	250
85°	80	82	86	95	98	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2159.9	2159.9	2159.9	2159.9	2159.9
2.5°	2157.6	2159.9	2153.1	2156.8	2162.1
5°	2146.3	2149.3	2145.5	2145.5	2147.0
7.5°	2128.1	2132.6	2130.4	2132.6	2134.1
10°	2106.9	2110.7	2109.2	2115.2	2120.5
12.5°	2075.9	2080.4	2081.9	2089.5	2094.8
15°	2034.3	2041.9	2045.6	2053.2	2059.3
17.5°	1988.1	1996.5	2003.3	2013.1	2022.2
20°	1934.4	1944.3	1954.1	1967.0	1977.5
22.5°	1876.2	1885.3	1895.1	1912.5	1924.6
25°	1808.8	1818.7	1830.8	1851.2	1864.1
27.5°	1737.7	1746.8	1759.7	1783.1	1795.2
30°	1657.5	1670.4	1686.3	1709.7	1724.9
32.5°	1579.6	1590.2	1605.3	1629.5	1646.2
35°	1493.4	1503.2	1517.6	1544.8	1558.4
37.5°	1404.9	1412.4	1426.8	1454.0	1464.6
40°	1311.8	1319.4	1333.0	1358.0	1368.5
42.5°	1211.9	1224.8	1239.2	1258.1	1268.7
45°	1117.4	1128.0	1138.6	1155.2	1162.8
47.5°	1023.6	1030.4	1040.2	1053.8	1058.4
50°	926.0	933.5	941.9	951.7	958.5
52.5°	836.7	841.3	847.3	853.4	857.9
55°	752.7	752.0	755.8	761.1	763.3
57.5°	667.3	668.0	670.3	673.3	674.8
60°	589.3	588.6	589.3	590.8	589.3
62.5°	515.9	515.2	514.4	515.9	516.7
65°	449.4	447.9	447.1	449.4	449.4
67.5°	388.1	386.6	385.1	389.6	388.9
70°	332.1	331.4	329.1	335.1	336.7
72.5°	279.9	280.7	278.4	290.5	292.0
75°	233.0	235.3	233.8	245.9	250.4
77.5°	192.2	195.2	195.9	206.5	211.8
80°	152.8	155.1	158.1	168.7	175.5
82.5°	116.5	118.0	124.1	130.9	136.2
85°	80.2	82.5	85.5	94.6	97.6
87.5°	41.6	43.9	46.1	54.5	53.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)