

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: P798214

Luminaire Tested: 22GRSCT3-F1-UNV-MID-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798214
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-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

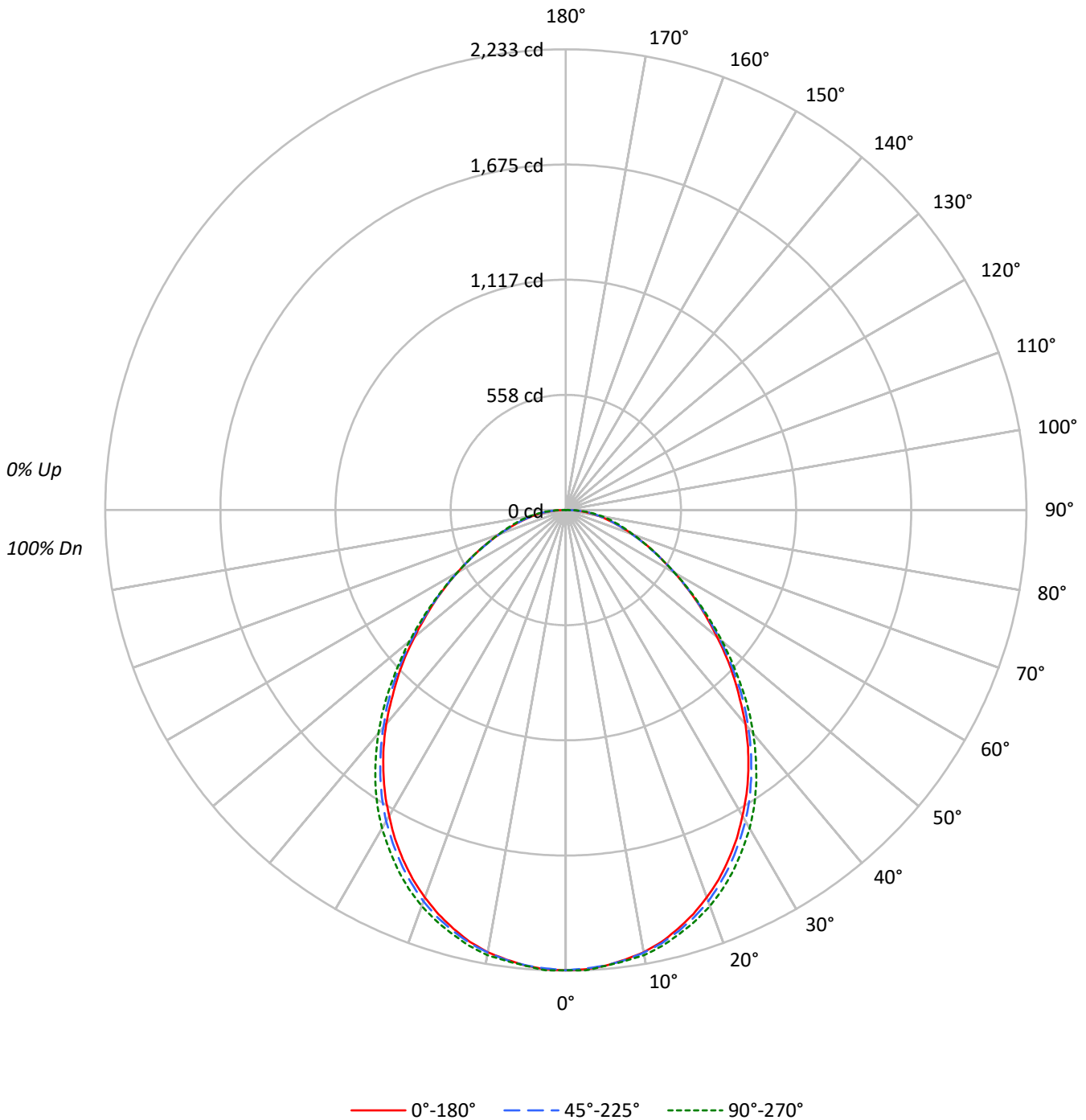
Lumens per Lamp: N/A
Luminaire Lumens: 5091.0 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6003	6003	6003
5°	5988	5986	5990
10°	5946	5953	5985
15°	5853	5886	5925
20°	5722	5780	5849
25°	5547	5615	5717
30°	5320	5412	5536
35°	5067	5149	5288
40°	4760	4836	4965
45°	4392	4475	4571
50°	4004	4073	4145
55°	3648	3662	3699
60°	3276	3276	3276
65°	2955	2940	2955
70°	2699	2674	2736
75°	2503	2510	2689
80°	2445	2531	2810
85°	2556	2726	3112

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4571 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.5	4.1
10°-20°	595.6	11.7
20°-30°	871.0	17.1
30°-40°	981.4	19.3
40°-50°	908.0	17.8
50°-60°	701.3	13.8
60°-70°	462.8	9.1
70°-80°	264.3	5.2
80°-90°	96.0	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°	1677.2	32.9
0°-40°	2658.6	52.2
0°-60°	4267.9	83.8
0°-90°	5091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5091.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2231	2231	2231	2231	2231	
5°	2217	2220	2216	2216	2218	210
15°	2101	2109	2113	2121	2127	592
25°	1868	1878	1891	1912	1925	859
35°	1542	1553	1568	1596	1610	963
45°	1154	1165	1176	1193	1201	890
55°	778	777	781	786	788	695
65°	464	463	462	464	464	463
75°	241	243	241	254	259	258
85°	83	85	88	98	101	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2230.9	2230.9	2230.9	2230.9	2230.9
2.5°	2228.5	2230.9	2223.8	2227.7	2233.2
5°	2216.8	2219.9	2216.0	2216.0	2217.6
7.5°	2198.0	2202.7	2200.4	2202.7	2204.3
10°	2176.2	2180.1	2178.5	2184.8	2190.2
12.5°	2144.1	2148.8	2150.4	2158.2	2163.7
15°	2101.1	2109.0	2112.9	2120.7	2126.9
17.5°	2053.5	2062.1	2069.1	2079.3	2088.6
20°	1998.0	2008.2	2018.3	2031.6	2042.5
22.5°	1937.8	1947.2	1957.4	1975.3	1987.8
25°	1868.3	1878.5	1891.0	1912.1	1925.3
27.5°	1794.8	1804.2	1817.5	1841.7	1854.2
30°	1712.0	1725.3	1741.7	1765.9	1781.6
32.5°	1631.5	1642.5	1658.1	1683.1	1700.3
35°	1542.5	1552.6	1567.5	1595.6	1609.7
37.5°	1451.0	1458.8	1473.7	1501.8	1512.8
40°	1354.9	1362.7	1376.8	1402.6	1413.5
42.5°	1251.8	1265.1	1279.9	1299.4	1310.4
45°	1154.1	1165.0	1176.0	1193.2	1201.0
47.5°	1057.2	1064.2	1074.4	1088.5	1093.2
50°	956.4	964.2	972.8	983.0	990.0
52.5°	864.2	868.9	875.2	881.4	886.1
55°	777.5	776.7	780.6	786.1	788.4
57.5°	689.2	690.0	692.3	695.4	697.0
60°	608.7	607.9	608.7	610.3	608.7
62.5°	532.9	532.1	531.3	532.9	533.7
65°	464.1	462.6	461.8	464.1	464.1
67.5°	400.9	399.3	397.7	402.4	401.6
70°	343.0	342.2	339.9	346.2	347.7
72.5°	289.1	289.9	287.5	300.1	301.6
75°	240.7	243.0	241.4	254.0	258.6
77.5°	198.5	201.6	202.4	213.3	218.8
80°	157.8	160.2	163.3	174.2	181.3
82.5°	120.3	121.9	128.1	135.2	140.6
85°	82.8	85.2	88.3	97.7	100.8
87.5°	43.0	45.3	47.7	56.3	54.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)