

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: P798222

Luminaire Tested: 22GRSCT3-F125-UNV-MID-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P291964)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22GRSCT3-F125-UNV-MID-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

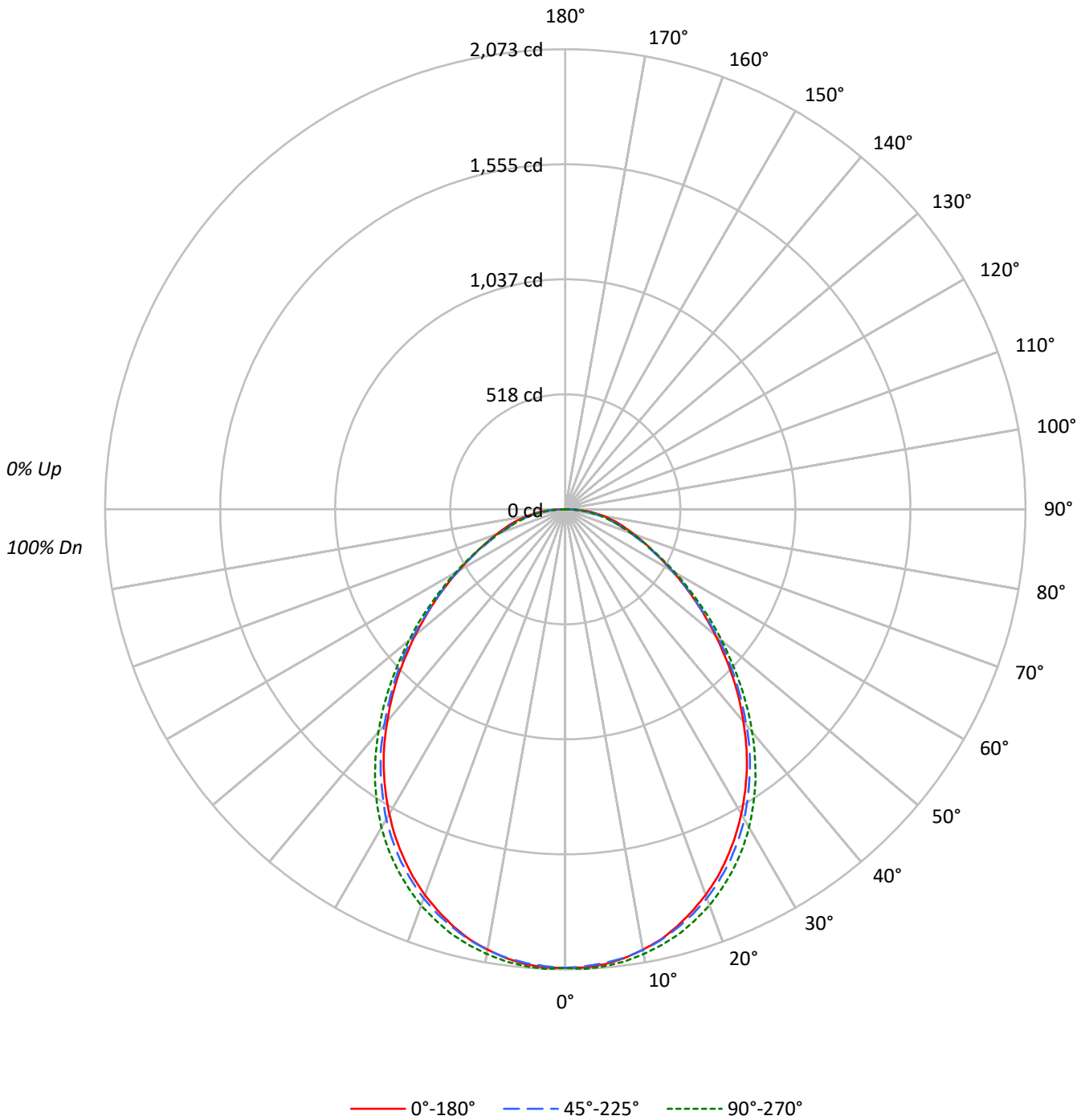
Lumens per Lamp: N/A
Luminaire Lumens: 4707.0 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 38.1
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	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	52	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	45	54	49	44	44	44	44	42
7	68	55	46	41	66	54	46	40	53	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	33	33	33	33	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°	5560	5560	5560
5°	5558	5544	5582
10°	5506	5509	5560
15°	5422	5440	5519
20°	5295	5342	5439
25°	5130	5201	5315
30°	4928	5012	5145
35°	4686	4761	4908
40°	4382	4454	4600
45°	4057	4119	4240
50°	3694	3754	3850
55°	3336	3346	3443
60°	2991	3003	3074
65°	2725	2670	2733
70°	2595	2449	2493
75°	2611	2362	2373
80°	2707	2385	2371
85°	2970	2529	2393

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4240 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.2	4.1
10°-20°	551.5	11.7
20°-30°	807.2	17.1
30°-40°	907.5	19.3
40°-50°	836.9	17.8
50°-60°	645.1	13.7
60°-70°	425.6	9.0
70°-80°	247.7	5.3
80°-90°	90.2	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°	1553.9	33.0
0°-40°	2461.4	52.3
0°-60°	3943.4	83.8
0°-90°	4707.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4707.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2066	2066	2066	2066	2066	
5°	2058	2053	2052	2062	2066	195
15°	1946	1946	1953	1970	1981	548
25°	1728	1736	1752	1776	1790	795
35°	1426	1433	1449	1479	1494	889
45°	1066	1067	1082	1104	1114	821
55°	711	710	713	725	734	638
65°	428	426	419	423	429	429
75°	251	240	227	223	228	265
85°	96	95	82	75	78	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2066.3	2066.3	2066.3	2066.3	2066.3
2.5°	2066.3	2061.9	2060.9	2068.5	2073.0
5°	2057.7	2053.2	2052.3	2061.9	2066.3
7.5°	2040.2	2037.0	2037.9	2048.8	2054.5
10°	2015.0	2014.0	2016.2	2028.1	2034.7
12.5°	1985.6	1984.4	1988.9	2001.9	2010.6
15°	1946.2	1946.2	1952.8	1970.4	1981.2
17.5°	1899.3	1902.5	1912.4	1929.9	1942.0
20°	1849.0	1852.2	1865.5	1885.0	1899.3
22.5°	1793.2	1797.7	1810.7	1834.9	1846.8
25°	1727.9	1736.5	1751.8	1776.0	1790.0
27.5°	1660.0	1669.9	1684.2	1713.5	1726.6
30°	1585.8	1592.4	1613.1	1640.5	1655.8
32.5°	1507.1	1513.7	1531.2	1564.0	1577.1
35°	1426.4	1432.8	1449.3	1478.7	1494.0
37.5°	1339.1	1344.5	1364.2	1387.2	1403.4
40°	1247.3	1254.9	1268.0	1295.4	1309.5
42.5°	1157.7	1160.9	1175.3	1202.4	1213.5
45°	1066.0	1067.0	1082.3	1104.2	1114.1
47.5°	971.0	973.2	991.7	1004.8	1014.7
50°	882.4	883.7	896.7	908.6	919.7
52.5°	794.1	794.1	800.5	813.6	827.9
55°	711.0	710.0	713.2	725.3	733.9
57.5°	632.3	631.3	635.7	643.4	649.8
60°	555.8	553.8	558.0	562.5	571.1
62.5°	488.2	490.4	485.0	491.4	498.1
65°	428.0	426.0	419.4	422.6	429.2
67.5°	376.7	373.5	362.6	364.9	372.5
70°	329.8	323.2	311.3	311.3	316.8
72.5°	287.2	280.7	265.4	266.4	268.7
75°	251.1	240.3	227.2	222.8	228.2
77.5°	211.9	203.0	191.2	187.7	190.0
80°	174.7	168.2	153.9	149.7	153.0
82.5°	138.6	133.2	116.9	113.5	114.7
85°	96.2	95.0	81.9	75.2	77.5
87.5°	51.3	52.5	42.7	38.2	40.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)