

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: P798221

Luminaire Tested: 22GRSCT3-F125-UNV-LOW-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798221
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-LOW-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

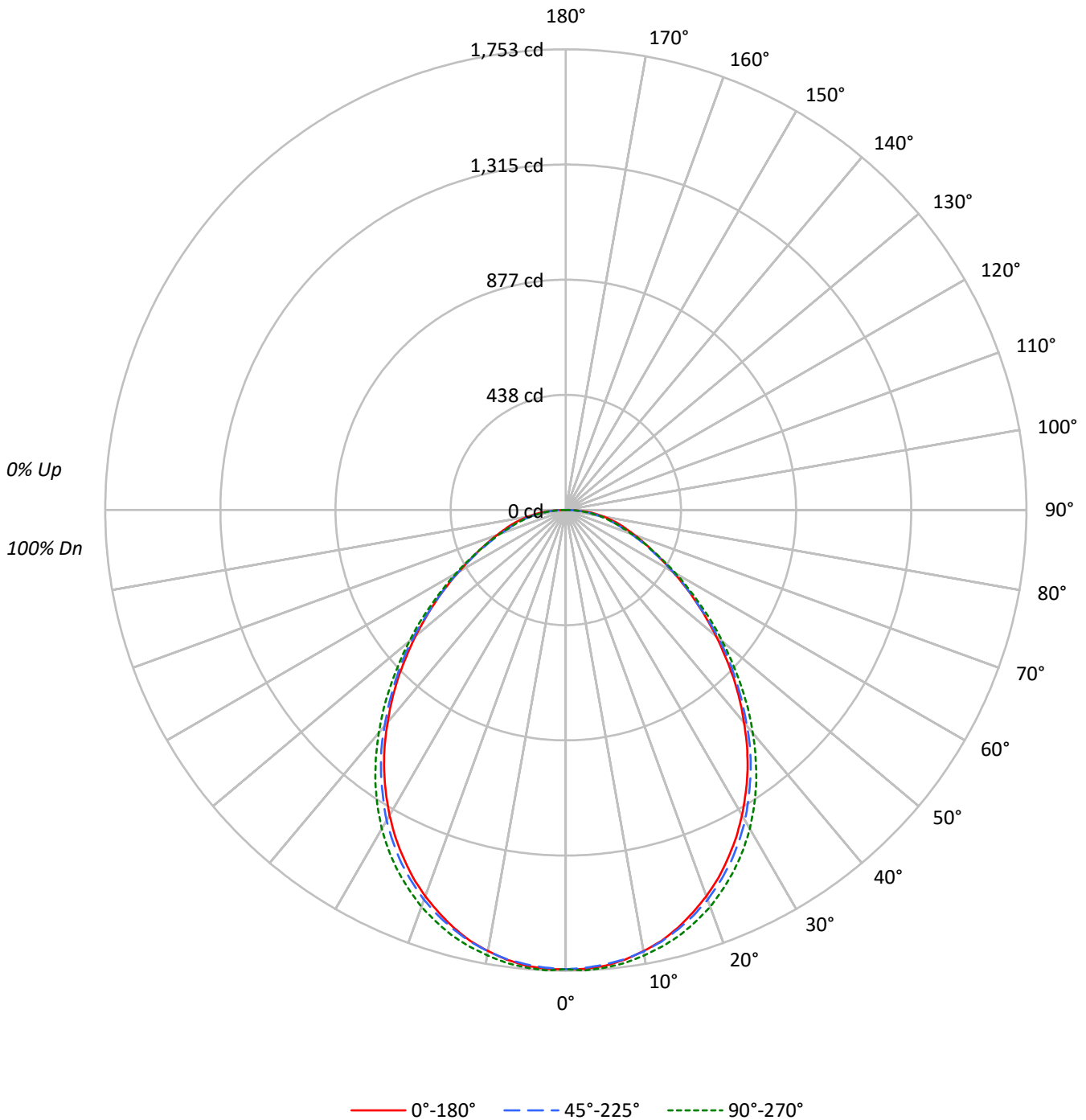
Lumens per Lamp: N/A
Luminaire Lumens: 3981.0 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 29.5
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	52	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	45	54	49	44	44	44	42
7	68	55	46	41	66	54	46	40	53	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	33	33	33	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°	4703	4703	4703
5°	4701	4689	4721
10°	4657	4660	4702
15°	4586	4601	4668
20°	4478	4518	4600
25°	4339	4399	4495
30°	4167	4239	4351
35°	3963	4027	4151
40°	3706	3767	3890
45°	3431	3483	3586
50°	3124	3175	3256
55°	2821	2830	2912
60°	2530	2540	2599
65°	2305	2259	2311
70°	2195	2072	2108
75°	2208	1998	2007
80°	2289	2018	2005
85°	2513	2140	2022

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3586 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.1	4.1
10°-20°	466.4	11.7
20°-30°	682.7	17.1
30°-40°	767.5	19.3
40°-50°	707.8	17.8
50°-60°	545.6	13.7
60°-70°	360.0	9.0
70°-80°	209.5	5.3
80°-90°	76.3	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°	1314.2	33.0
0°-40°	2081.7	52.3
0°-60°	3335.2	83.8
0°-90°	3981.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3981.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1748	1748	1748	1748	1748	
5°	1740	1737	1736	1744	1748	165
15°	1646	1646	1652	1666	1676	463
25°	1461	1469	1482	1502	1514	672
35°	1206	1212	1226	1251	1264	752
45°	902	902	915	934	942	694
55°	601	600	603	613	621	540
65°	362	360	355	357	363	363
75°	212	203	192	188	193	224
85°	81	80	69	64	66	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1747.6	1747.6	1747.6	1747.6	1747.6
2.5°	1747.6	1743.9	1743.0	1749.5	1753.2
5°	1740.3	1736.6	1735.7	1743.9	1747.6
7.5°	1725.5	1722.8	1723.6	1732.8	1737.6
10°	1704.2	1703.4	1705.3	1715.3	1720.9
12.5°	1679.4	1678.3	1682.1	1693.2	1700.5
15°	1646.0	1646.0	1651.6	1666.5	1675.6
17.5°	1606.4	1609.1	1617.4	1632.2	1642.5
20°	1563.8	1566.5	1577.8	1594.3	1606.4
22.5°	1516.6	1520.4	1531.5	1551.9	1561.9
25°	1461.4	1468.7	1481.6	1502.0	1513.9
27.5°	1404.0	1412.3	1424.4	1449.3	1460.3
30°	1341.2	1346.8	1364.3	1387.5	1400.4
32.5°	1274.6	1280.2	1295.1	1322.8	1333.9
35°	1206.4	1211.8	1225.8	1250.6	1263.6
37.5°	1132.5	1137.1	1153.8	1173.2	1187.0
40°	1054.9	1061.4	1072.4	1095.6	1107.5
42.5°	979.2	981.9	994.0	1016.9	1026.3
45°	901.6	902.4	915.3	933.9	942.2
47.5°	821.2	823.1	838.8	849.8	858.2
50°	746.3	747.4	758.4	768.4	777.8
52.5°	671.6	671.6	677.1	688.1	700.2
55°	601.3	600.5	603.2	613.4	620.7
57.5°	534.8	533.9	537.7	544.1	549.6
60°	470.1	468.4	472.0	475.7	483.0
62.5°	412.9	414.8	410.2	415.6	421.3
65°	362.0	360.3	354.7	357.4	363.0
67.5°	318.6	315.9	306.7	308.6	315.1
70°	279.0	273.3	263.3	263.3	267.9
72.5°	242.9	237.4	224.5	225.3	227.2
75°	212.4	203.2	192.2	188.4	193.0
77.5°	179.2	171.7	161.7	158.8	160.7
80°	147.7	142.3	130.2	126.6	129.4
82.5°	117.3	112.7	98.9	96.0	97.0
85°	81.4	80.3	69.3	63.6	65.5
87.5°	43.4	44.4	36.1	32.3	34.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)