

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: P798227

Luminaire Tested: 22GRSCT3-FGW080-UNV-HIGH-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P292748)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22GRSCT3-FGW080-UNV-HIGH-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

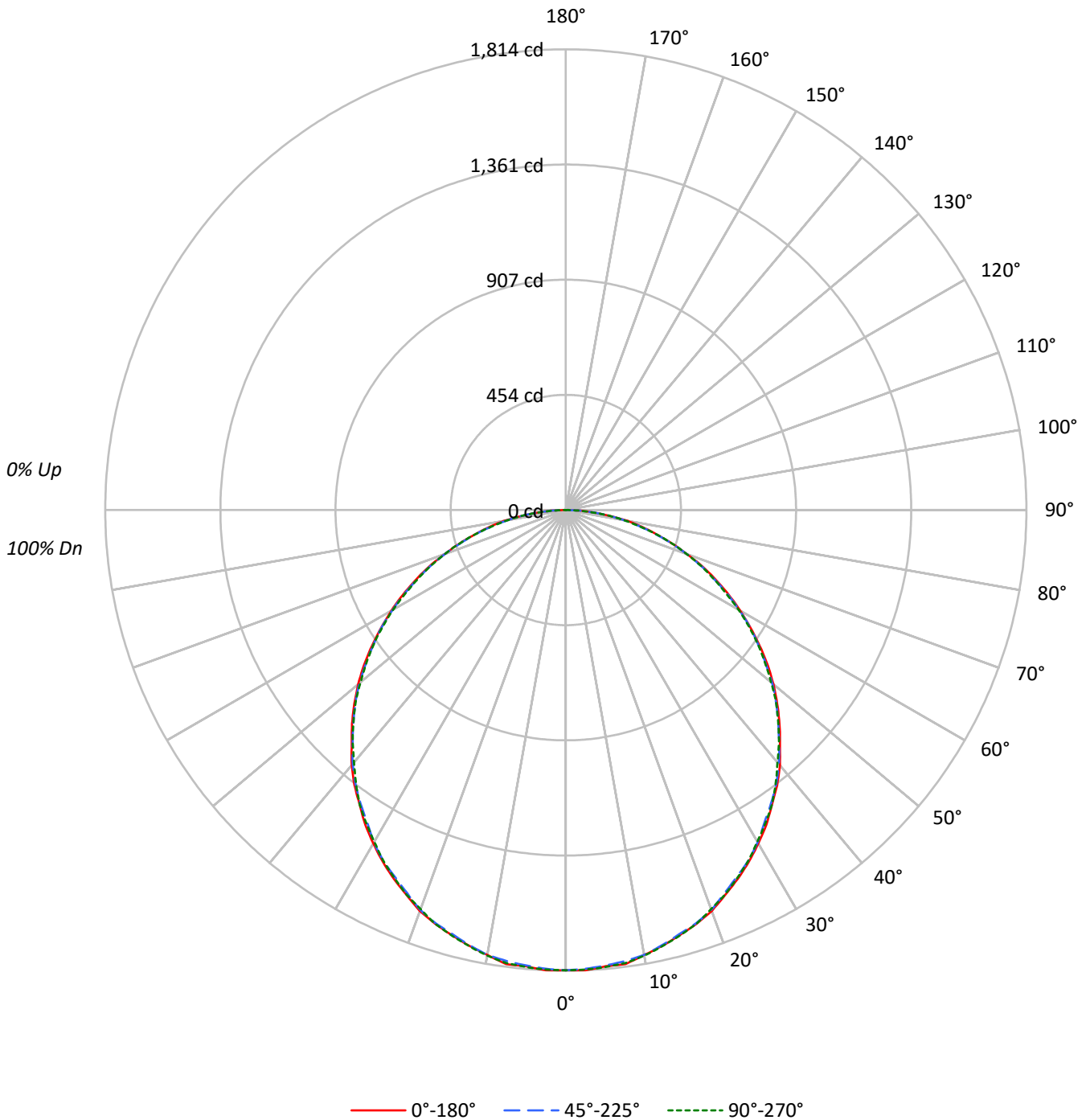
Lumens per Lamp: N/A
Luminaire Lumens: 5178.1 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50.9
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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	85	85	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	71	71	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	60	60	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	51	51	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	45	45	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	39	39	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	35	35	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4877	4877	4877
5°	4871	4863	4879
10°	4861	4861	4869
15°	4829	4816	4833
20°	4812	4799	4789
25°	4758	4731	4745
30°	4711	4696	4687
35°	4650	4630	4650
40°	4610	4588	4556
45°	4531	4502	4502
50°	4469	4443	4417
55°	4372	4345	4337
60°	4272	4247	4230
65°	4162	4115	4096
70°	3995	3984	3995
75°	3856	3808	3843
80°	3818	3626	3606
85°	3381	3282	3331

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4531 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.4	3.3
10°-20°	489.2	9.4
20°-30°	736.6	14.2
30°-40°	884.0	17.1
40°-50°	914.7	17.7
50°-60°	828.9	16.0
60°-70°	642.5	12.4
70°-80°	390.0	7.5
80°-90°	120.7	2.3
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°	1397.3	27.0
0°-40°	2281.3	44.1
0°-60°	4024.9	77.7
0°-90°	5178.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5178.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1812	1812	1812	1812	1812	
5°	1803	1803	1800	1805	1806	172
15°	1733	1733	1729	1736	1735	490
25°	1602	1600	1593	1600	1598	739
35°	1416	1416	1409	1411	1416	887
45°	1191	1189	1183	1183	1183	919
55°	932	931	926	924	924	833
65°	654	654	646	649	643	646
75°	371	370	366	366	370	395
85°	110	108	106	106	108	125
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1812.5	1812.5	1812.5	1812.5	1812.5
2.5°	1813.8	1806.3	1808.0	1810.9	1810.9
5°	1803.4	1803.4	1800.1	1804.7	1806.3
7.5°	1803.4	1795.6	1791.0	1795.6	1798.8
10°	1779.0	1775.8	1779.0	1777.4	1781.9
12.5°	1757.6	1754.6	1754.6	1759.2	1759.2
15°	1733.2	1733.2	1728.6	1736.4	1734.8
17.5°	1709.1	1709.1	1705.9	1705.9	1709.1
20°	1680.2	1672.4	1675.7	1674.0	1672.4
22.5°	1640.5	1636.0	1633.1	1637.6	1638.9
25°	1602.5	1599.6	1593.4	1599.6	1598.0
27.5°	1561.6	1558.3	1557.0	1553.8	1557.0
30°	1516.1	1512.8	1511.2	1508.3	1508.3
32.5°	1470.2	1464.0	1456.6	1464.0	1462.7
35°	1415.6	1415.6	1409.4	1411.1	1415.6
37.5°	1366.9	1363.9	1360.7	1356.1	1357.8
40°	1312.2	1307.7	1306.1	1303.1	1297.0
42.5°	1248.2	1248.2	1242.4	1243.7	1242.4
45°	1190.7	1189.0	1182.9	1182.9	1182.9
47.5°	1129.6	1128.3	1123.7	1120.5	1123.7
50°	1067.5	1061.3	1061.3	1056.8	1055.1
52.5°	1002.1	997.3	991.4	992.7	989.8
55°	931.9	930.6	926.1	924.5	924.5
57.5°	862.0	863.7	860.4	854.6	855.9
60°	793.8	792.2	789.2	786.0	786.0
62.5°	723.9	723.9	717.7	717.7	711.5
65°	653.7	653.7	646.2	649.1	643.3
67.5°	583.8	582.5	577.6	576.3	577.6
70°	507.7	509.4	506.4	506.4	507.7
72.5°	439.5	437.8	436.2	436.2	439.5
75°	370.9	369.6	366.3	366.3	369.6
77.5°	308.8	301.0	299.4	302.6	298.1
80°	246.4	235.7	234.0	232.7	232.7
82.5°	173.3	168.7	170.3	168.7	172.0
85°	109.5	107.9	106.3	106.3	107.9
87.5°	51.7	48.8	48.8	47.1	47.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)