

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: P798268

Luminaire Tested: 24GRSCT3-F1-UNV-MID-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798268
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P292954)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24GRSCT3-F1-UNV-MID-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

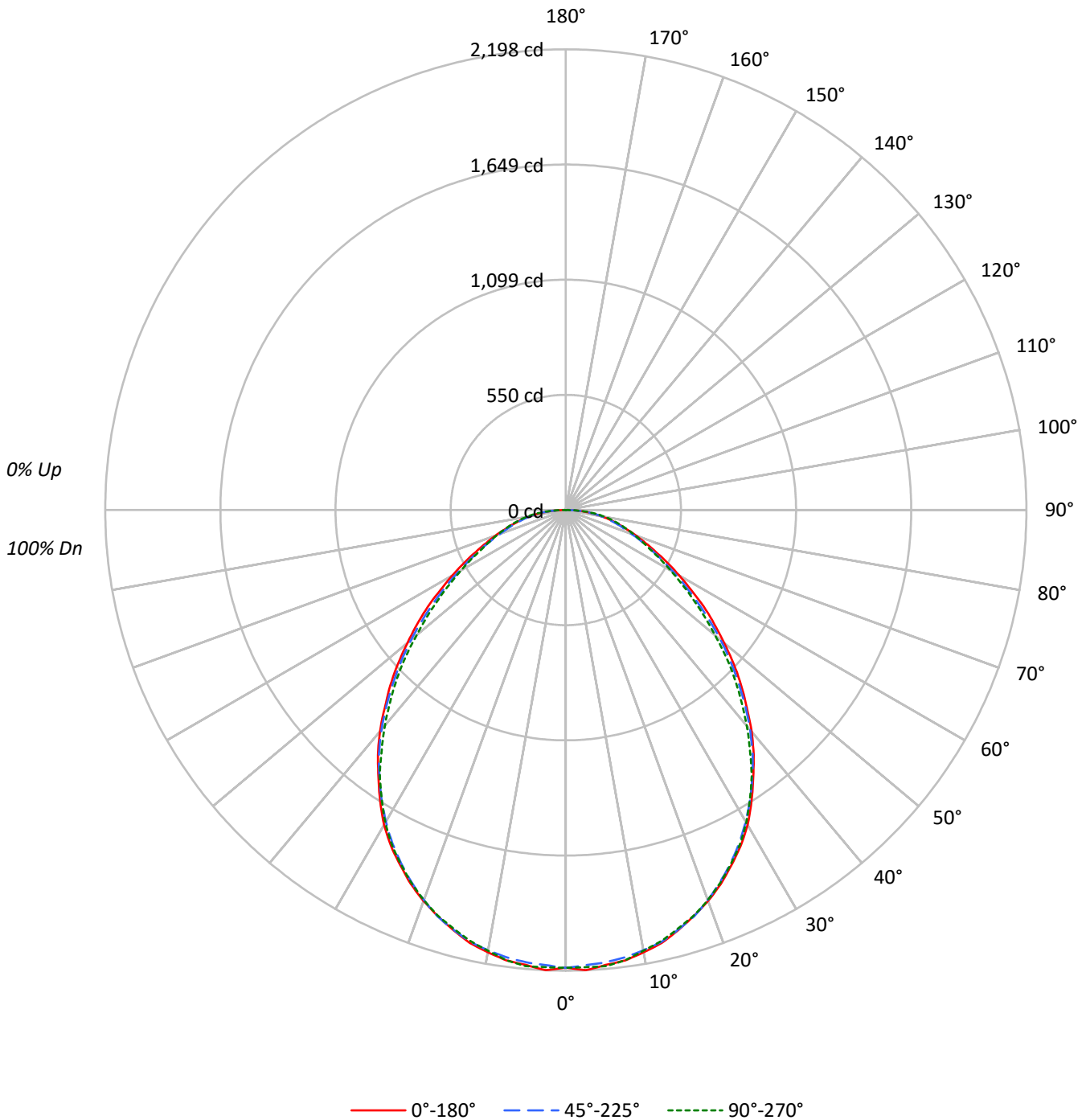
Lumens per Lamp: N/A
Luminaire Lumens: 5027.7 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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	100	100	100	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85	85	85	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72	72	72	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62	62	62	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54	54	54	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47	47	47	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42	42	42	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37	37	37	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34	34	34	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31	31	31	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28	28	28	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2939	2939	2939
5°	2943	2926	2951
10°	2927	2914	2917
15°	2891	2887	2880
20°	2842	2836	2836
25°	2776	2760	2767
30°	2696	2668	2676
35°	2560	2548	2541
40°	2424	2402	2361
45°	2253	2214	2171
50°	2064	2019	1943
55°	1885	1800	1739
60°	1680	1599	1557
65°	1512	1433	1413
70°	1404	1317	1371
75°	1342	1283	1391
80°	1341	1341	1486
85°	1392	1409	1568

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2253 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.2	4.1
10°-20°	583.7	11.6
20°-30°	856.6	17.0
30°-40°	968.5	19.3
40°-50°	895.1	17.8
50°-60°	689.6	13.7
60°-70°	456.6	9.1
70°-80°	271.8	5.4
80°-90°	99.6	2.0
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°	1646.5	32.7
0°-40°	2615.0	52.0
0°-60°	4199.6	83.5
0°-90°	5027.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5027.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2184	2184	2184	2184	2184	
5°	2179	2179	2166	2167	2185	207
15°	2075	2071	2073	2072	2068	585
25°	1870	1865	1859	1857	1864	861
35°	1559	1556	1551	1544	1547	975
45°	1184	1176	1164	1143	1141	912
55°	804	787	767	747	742	717
65°	475	468	450	446	444	476
75°	258	252	247	258	268	275
85°	90	85	91	101	102	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2184.0	2184.0	2184.0	2184.0	2184.0
2.5°	2197.5	2186.0	2173.6	2173.6	2182.9
5°	2178.8	2178.8	2166.2	2167.3	2184.9
7.5°	2167.3	2161.2	2152.7	2152.7	2166.2
10°	2142.5	2137.3	2133.1	2131.0	2135.1
12.5°	2115.5	2107.2	2110.3	2107.2	2106.2
15°	2075.1	2070.9	2072.9	2071.8	2067.7
17.5°	2031.4	2029.4	2033.5	2026.4	2029.4
20°	1984.8	1978.5	1980.7	1976.6	1980.7
22.5°	1932.0	1927.9	1922.6	1917.4	1925.7
25°	1869.6	1864.6	1859.4	1857.2	1863.5
27.5°	1807.4	1799.2	1792.0	1789.8	1799.2
30°	1735.0	1725.6	1717.2	1715.2	1722.4
32.5°	1648.9	1646.7	1636.3	1632.2	1635.4
35°	1558.6	1556.5	1551.3	1544.1	1547.1
37.5°	1472.5	1471.5	1464.3	1451.9	1443.4
40°	1380.3	1373.0	1367.7	1350.1	1344.0
42.5°	1278.6	1276.6	1267.3	1247.5	1240.3
45°	1184.2	1175.9	1163.5	1142.7	1140.7
47.5°	1086.8	1075.3	1064.0	1038.1	1037.0
50°	986.1	977.9	964.4	938.5	928.1
52.5°	892.8	881.5	862.8	837.8	832.8
55°	803.7	787.1	767.4	746.7	741.5
57.5°	708.2	701.0	677.1	660.6	654.3
60°	624.3	618.0	594.3	578.6	578.6
62.5°	548.6	539.3	518.4	508.2	508.2
65°	474.9	467.7	450.1	446.0	443.8
67.5°	411.6	402.3	389.9	388.8	394.0
70°	356.8	345.3	334.9	345.3	348.4
72.5°	304.9	297.7	288.3	301.8	307.9
75°	258.1	252.0	246.8	258.1	267.5
77.5°	215.7	209.4	209.4	222.0	230.3
80°	173.1	169.0	173.1	183.5	191.8
82.5°	132.7	129.6	134.8	145.2	150.5
85°	90.2	85.0	91.3	100.7	101.6
87.5°	42.6	41.5	45.7	51.8	50.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)