

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: P798269

Luminaire Tested: 24GRSCT3-F1-UNV-MID-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798269
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-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

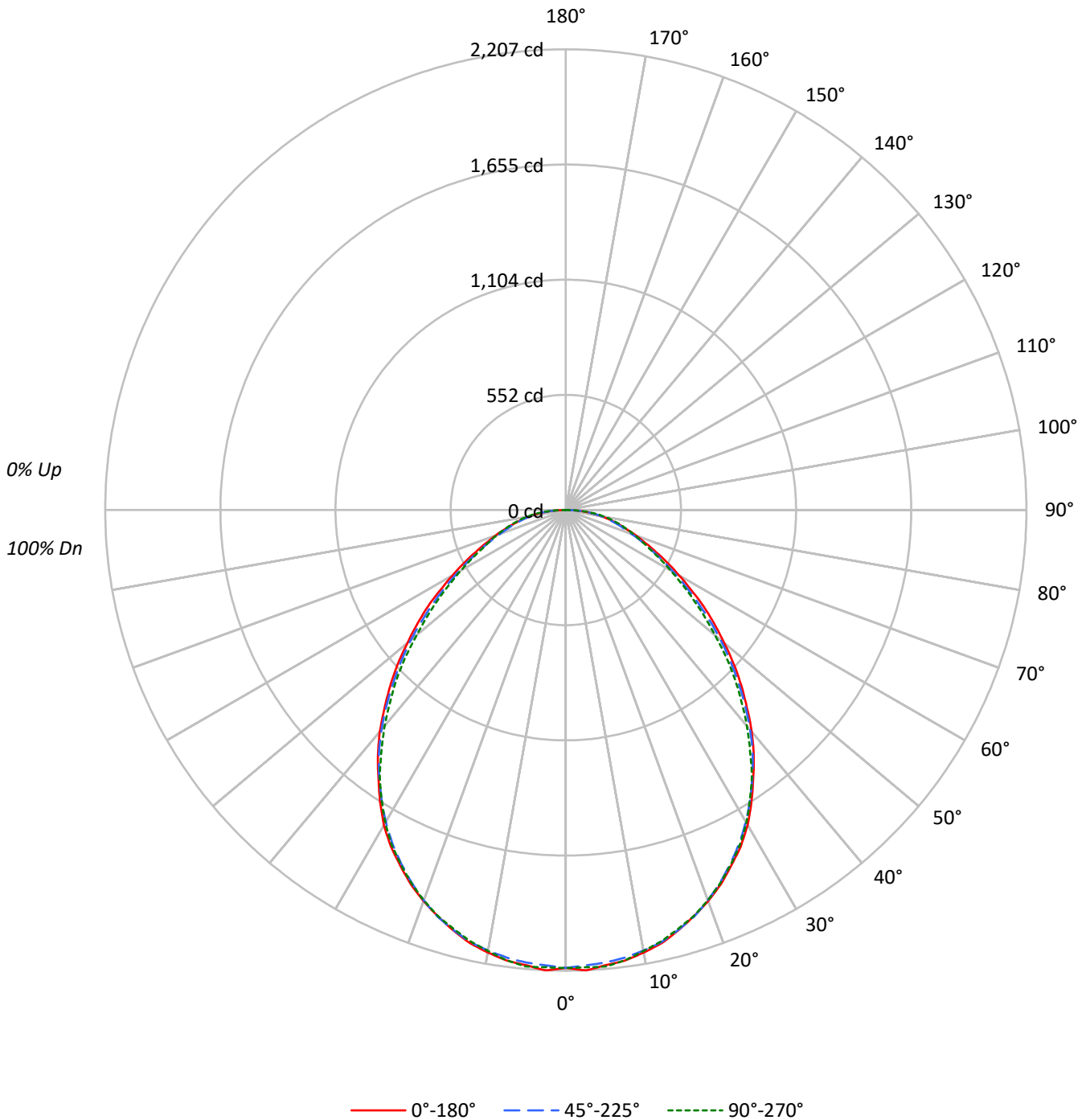
Lumens per Lamp: N/A
Luminaire Lumens: 5050.4 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.2
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	109	105	101	97	107	103	99	96	98	95	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	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	64	64	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	56	56	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	49	49	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	44	44	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	39	39	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	36	36	36	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	32	32	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2952	2952	2952
5°	2956	2939	2964
10°	2940	2928	2930
15°	2904	2901	2893
20°	2855	2849	2849
25°	2788	2773	2779
30°	2708	2680	2688
35°	2572	2560	2553
40°	2435	2413	2371
45°	2264	2224	2180
50°	2074	2028	1951
55°	1894	1808	1747
60°	1688	1607	1564
65°	1519	1439	1419
70°	1410	1323	1376
75°	1348	1289	1397
80°	1347	1347	1493
85°	1399	1416	1575

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2264 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.2	4.1
10°-20°	586.3	11.6
20°-30°	860.5	17.0
30°-40°	972.8	19.3
40°-50°	899.1	17.8
50°-60°	692.7	13.7
60°-70°	458.7	9.1
70°-80°	273.1	5.4
80°-90°	100.0	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°	1654.0	32.7
0°-40°	2626.8	52.0
0°-60°	4218.6	83.5
0°-90°	5050.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5050.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2194	2194	2194	2194	2194	
5°	2189	2189	2176	2177	2195	208
15°	2084	2080	2082	2081	2077	587
25°	1878	1873	1868	1866	1872	865
35°	1566	1564	1558	1551	1554	980
45°	1190	1181	1169	1148	1146	916
55°	807	791	771	750	745	720
65°	477	470	452	448	446	478
75°	259	253	248	259	269	277
85°	91	85	92	101	102	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2193.9	2193.9	2193.9	2193.9	2193.9
2.5°	2207.4	2195.9	2183.4	2183.4	2192.8
5°	2188.6	2188.6	2176.0	2177.1	2194.8
7.5°	2177.1	2170.9	2162.5	2162.5	2176.0
10°	2152.2	2146.9	2142.8	2140.6	2144.8
12.5°	2125.1	2116.8	2119.8	2116.8	2115.7
15°	2084.5	2080.3	2082.3	2081.2	2077.1
17.5°	2040.6	2038.6	2042.7	2035.5	2038.6
20°	1993.8	1987.5	1989.7	1985.5	1989.7
22.5°	1940.7	1936.6	1931.3	1926.1	1934.4
25°	1878.1	1873.0	1867.8	1865.6	1871.9
27.5°	1815.6	1807.3	1800.1	1797.9	1807.3
30°	1742.8	1733.4	1724.9	1723.0	1730.2
32.5°	1656.3	1654.2	1643.7	1639.5	1642.8
35°	1565.7	1563.5	1558.3	1551.1	1554.1
37.5°	1479.2	1478.1	1470.9	1458.4	1449.9
40°	1386.6	1379.2	1373.9	1356.2	1350.1
42.5°	1284.4	1282.4	1273.0	1253.1	1245.9
45°	1189.6	1181.3	1168.8	1147.9	1145.9
47.5°	1091.7	1080.1	1068.8	1042.8	1041.7
50°	990.6	982.3	968.7	942.7	932.3
52.5°	896.9	885.5	866.7	841.6	836.6
55°	807.3	790.7	770.8	750.1	744.8
57.5°	711.4	704.2	680.2	663.6	657.3
60°	627.1	620.8	597.0	581.2	581.2
62.5°	551.1	541.7	520.8	510.5	510.5
65°	477.1	469.8	452.1	448.0	445.8
67.5°	413.5	404.1	391.6	390.6	395.8
70°	358.4	346.9	336.4	346.9	349.9
72.5°	306.2	299.0	289.6	303.2	309.3
75°	259.3	253.2	247.9	259.3	268.7
77.5°	216.7	210.4	210.4	223.0	231.3
80°	173.9	169.7	173.9	184.4	192.7
82.5°	133.3	130.2	135.4	145.9	151.1
85°	90.6	85.4	91.7	101.1	102.0
87.5°	42.8	41.7	45.9	52.0	51.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)