

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: P798277

Luminaire Tested: 24GRSCT3-F125-UNV-MID-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P293206)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24GRSCT3-F125-UNV-MID-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

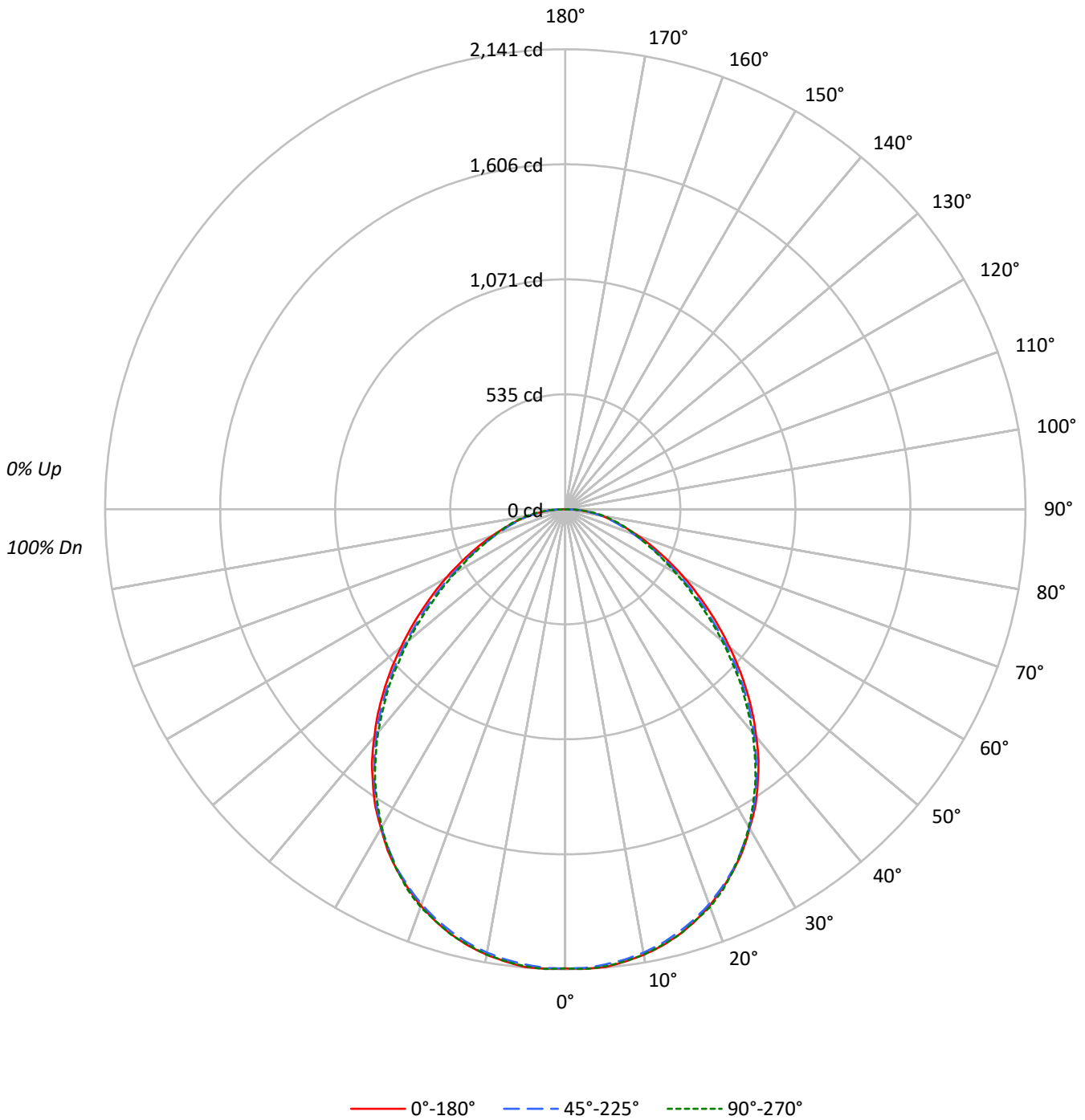
Lumens per Lamp: N/A
Luminaire Lumens: 5027.7 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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				
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	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	74	74	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	64	64	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	56	56	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	49	49	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	44	44	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	39	39	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	35	35	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	32	32	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	29	29	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2875	2875	2875
5°	2888	2872	2884
10°	2876	2863	2875
15°	2854	2838	2856
20°	2812	2801	2821
25°	2751	2744	2750
30°	2664	2659	2653
35°	2564	2544	2534
40°	2427	2399	2380
45°	2270	2228	2201
50°	2086	2030	1995
55°	1902	1833	1779
60°	1728	1635	1592
65°	1556	1468	1444
70°	1425	1332	1370
75°	1331	1271	1364
80°	1322	1297	1425
85°	1346	1360	1555

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2270 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.2	4.0
10°-20°	574.9	11.4
20°-30°	849.4	16.9
30°-40°	965.6	19.2
40°-50°	901.8	17.9
50°-60°	701.3	13.9
60°-70°	465.3	9.3
70°-80°	269.3	5.4
80°-90°	97.9	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°	1626.5	32.4
0°-40°	2592.1	51.6
0°-60°	4195.2	83.4
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°	2137	2137	2137	2137	2137	
5°	2138	2127	2126	2130	2135	203
15°	2049	2039	2038	2037	2050	577
25°	1853	1845	1848	1844	1852	852
35°	1561	1553	1549	1538	1543	974
45°	1193	1184	1171	1156	1157	919
55°	811	799	781	761	758	727
65°	489	474	461	453	454	488
75°	256	250	244	255	262	274
85°	87	86	88	100	101	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2136.7	2136.7	2136.7	2136.7	2136.7
2.5°	2140.0	2133.7	2136.7	2134.4	2141.4
5°	2138.3	2127.4	2126.5	2130.4	2135.3
7.5°	2123.4	2111.6	2113.9	2113.9	2121.8
10°	2105.3	2093.6	2095.2	2095.9	2104.6
12.5°	2081.0	2069.1	2070.0	2069.1	2077.8
15°	2048.8	2038.6	2037.7	2037.0	2050.3
17.5°	2009.5	1995.3	2000.1	2000.8	2007.8
20°	1963.8	1952.8	1956.1	1955.2	1970.1
22.5°	1909.7	1901.8	1904.1	1902.5	1916.7
25°	1853.1	1845.2	1848.4	1844.4	1852.4
27.5°	1789.4	1783.9	1780.8	1778.5	1783.9
30°	1714.8	1711.6	1711.6	1701.4	1707.7
32.5°	1644.0	1633.8	1633.8	1629.8	1625.9
35°	1560.8	1552.9	1548.9	1538.0	1542.6
37.5°	1477.4	1459.4	1457.8	1449.2	1449.2
40°	1381.6	1371.3	1365.8	1356.4	1354.8
42.5°	1290.4	1280.2	1270.7	1255.0	1251.8
45°	1193.0	1183.5	1170.9	1156.0	1156.7
47.5°	1096.3	1083.0	1071.1	1053.0	1050.7
50°	996.6	987.0	969.8	954.1	953.2
52.5°	902.9	888.0	872.3	853.5	853.5
55°	811.0	799.2	781.2	760.7	758.4
57.5°	723.0	712.0	691.5	676.6	672.6
60°	642.1	626.3	607.4	595.0	591.7
62.5°	561.2	547.0	532.8	520.2	519.5
65°	488.7	473.8	461.2	452.6	453.5
67.5°	423.5	411.1	396.9	394.6	395.3
70°	362.2	348.9	338.7	344.2	348.2
72.5°	304.1	297.1	289.9	297.9	303.4
75°	256.1	249.9	244.5	255.4	262.4
77.5°	212.1	207.4	206.7	216.1	222.4
80°	170.6	165.0	167.4	178.3	183.9
82.5°	129.6	125.8	126.5	139.8	143.8
85°	87.2	85.7	88.1	99.8	100.7
87.5°	46.4	46.4	48.0	55.0	52.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)