

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: P798276

Luminaire Tested: 24GRSCT3-F125-UNV-MID-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798276
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-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

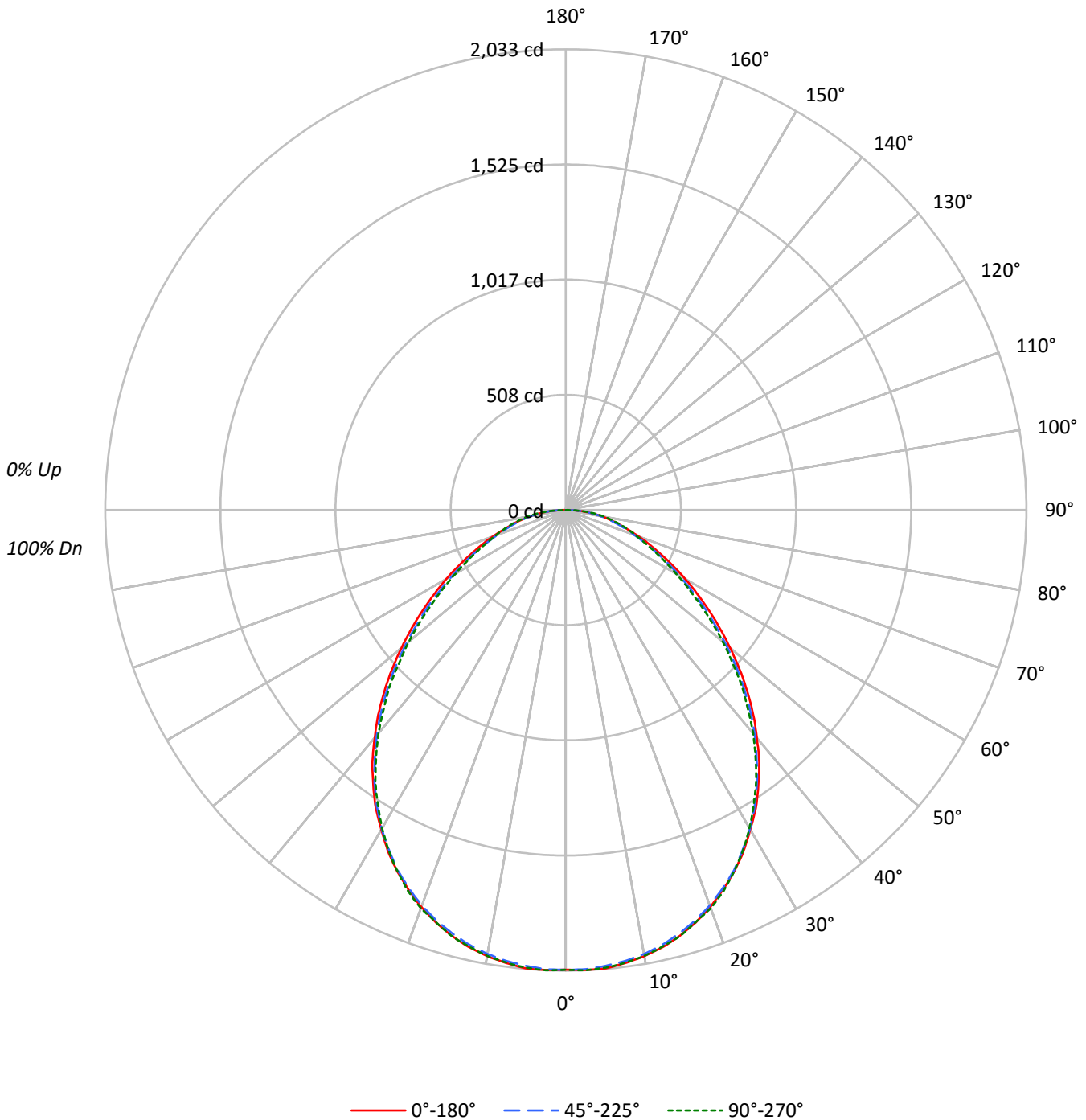
Lumens per Lamp: N/A
Luminaire Lumens: 4773.7 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.4
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	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°	2730	2730	2730
5°	2742	2727	2738
10°	2731	2718	2730
15°	2710	2695	2712
20°	2670	2659	2678
25°	2612	2605	2611
30°	2530	2525	2519
35°	2434	2416	2406
40°	2304	2278	2259
45°	2155	2116	2090
50°	1981	1927	1895
55°	1806	1740	1689
60°	1640	1552	1512
65°	1478	1394	1371
70°	1353	1265	1301
75°	1264	1207	1295
80°	1255	1231	1353
85°	1278	1291	1476

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2155 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.0	4.0
10°-20°	545.9	11.4
20°-30°	806.4	16.9
30°-40°	916.8	19.2
40°-50°	856.2	17.9
50°-60°	665.8	13.9
60°-70°	441.8	9.3
70°-80°	255.7	5.4
80°-90°	93.0	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°	1544.3	32.4
0°-40°	2461.2	51.6
0°-60°	3983.2	83.4
0°-90°	4773.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4773.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2029	2029	2029	2029	2029	
5°	2030	2020	2019	2023	2027	193
15°	1945	1936	1935	1934	1947	548
25°	1760	1752	1755	1751	1759	809
35°	1482	1474	1471	1460	1465	925
45°	1133	1124	1112	1098	1098	873
55°	770	759	742	722	720	691
65°	464	450	438	430	431	464
75°	243	237	232	242	249	260
85°	83	81	84	95	96	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2028.8	2028.8	2028.8	2028.8	2028.8
2.5°	2031.8	2025.9	2028.8	2026.6	2033.2
5°	2030.3	2019.9	2019.0	2022.8	2027.4
7.5°	2016.1	2004.9	2007.1	2007.1	2014.6
10°	1998.9	1987.8	1989.4	1990.0	1998.2
12.5°	1975.9	1964.6	1965.5	1964.6	1972.8
15°	1945.3	1935.6	1934.7	1934.1	1946.7
17.5°	1907.9	1894.5	1899.1	1899.7	1906.4
20°	1864.6	1854.2	1857.3	1856.4	1870.6
22.5°	1813.2	1805.7	1807.9	1806.4	1819.9
25°	1759.5	1751.9	1755.0	1751.3	1758.8
27.5°	1699.0	1693.7	1690.8	1688.6	1693.7
30°	1628.2	1625.1	1625.1	1615.4	1621.4
32.5°	1561.0	1551.2	1551.2	1547.5	1543.7
35°	1481.9	1474.4	1470.7	1460.3	1464.7
37.5°	1402.8	1385.7	1384.1	1376.0	1376.0
40°	1311.8	1302.1	1296.8	1287.9	1286.4
42.5°	1225.3	1215.5	1206.5	1191.6	1188.6
45°	1132.7	1123.7	1111.8	1097.6	1098.3
47.5°	1040.9	1028.3	1017.0	999.8	997.6
50°	946.2	937.2	920.8	905.9	905.1
52.5°	857.3	843.1	828.3	810.4	810.4
55°	770.1	758.8	741.7	722.3	720.1
57.5°	686.4	676.0	656.6	642.4	638.7
60°	609.6	594.6	576.7	564.9	561.9
62.5°	532.8	519.4	505.9	493.9	493.2
65°	464.1	449.9	437.9	429.8	430.6
67.5°	402.1	390.3	376.8	374.6	375.3
70°	343.9	331.3	321.5	326.8	330.6
72.5°	288.8	282.1	275.3	282.8	288.1
75°	243.2	237.2	232.1	242.5	249.2
77.5°	201.4	197.0	196.3	205.1	211.1
80°	162.0	156.7	158.9	169.3	174.6
82.5°	123.1	119.5	120.2	132.8	136.5
85°	82.8	81.4	83.6	94.7	95.6
87.5°	44.0	44.0	45.6	52.2	50.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)