

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: P798241

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-322-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24GRSCT3-A-UNV-MID-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

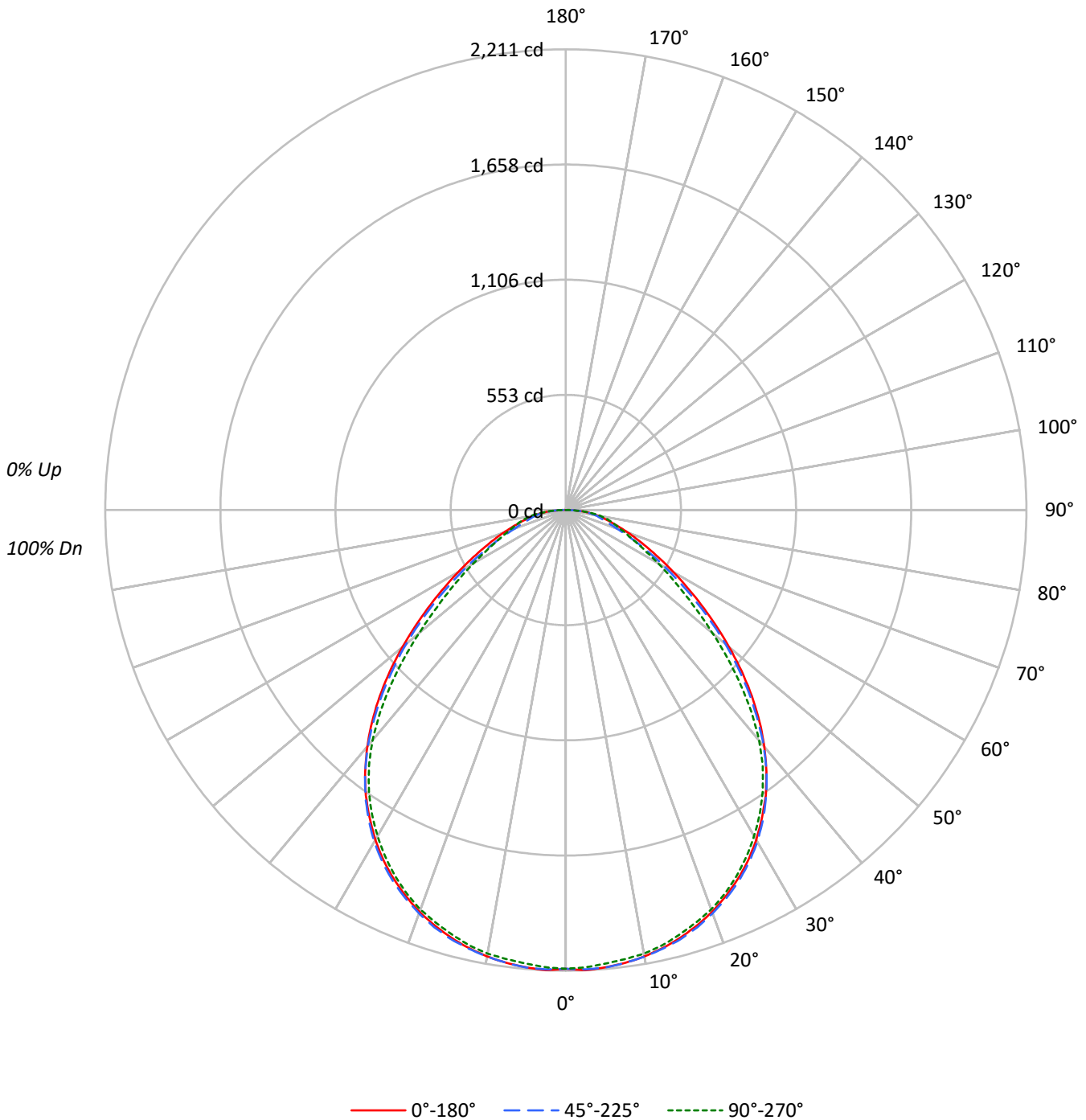
Lumens per Lamp: N/A
Luminaire Lumens: 5087.0 lumens
Efficiency: N/A
Efficacy: 152.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.22 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	88	88	88	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	76	76	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	66	66	66	64
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	57	57	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	51	51	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	46	55	49	45	45	45	45	43
7	68	56	47	41	67	55	47	41	53	46	41	52	45	41	51	45	40	40	40	40	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	37	37	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	33	33	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	30	30	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2963	2963	2963
5°	2975	2976	2951
10°	2972	2973	2953
15°	2960	2970	2938
20°	2939	2950	2921
25°	2901	2917	2878
30°	2840	2857	2807
35°	2748	2755	2706
40°	2604	2596	2536
45°	2404	2367	2260
50°	2143	2094	1923
55°	1859	1781	1615
60°	1605	1486	1379
65°	1394	1228	1199
70°	1249	1031	1138
75°	1164	987	1197
80°	1230	1127	1344
85°	1321	1272	1417

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2404 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.9	4.1
10°-20°	599.1	11.8
20°-30°	899.4	17.7
30°-40°	1038.1	20.4
40°-50°	945.7	18.6
50°-60°	671.9	13.2
60°-70°	401.7	7.9
70°-80°	230.4	4.5
80°-90°	91.6	1.8
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°	1707.5	33.6
0°-40°	2745.6	54.0
0°-60°	4363.3	85.8
0°-90°	5087.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5087.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2202	2202	2202	2202	2202	
5°	2203	2214	2204	2181	2185	209
15°	2125	2139	2132	2106	2109	599
25°	1954	1970	1965	1941	1938	899
35°	1673	1682	1677	1648	1647	1042
45°	1263	1259	1244	1194	1188	970
55°	793	790	759	695	688	713
65°	438	416	386	383	376	440
75°	224	217	190	228	230	242
85°	86	83	82	96	92	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2202.0	2202.0	2202.0	2202.0	2202.0
2.5°	2210.6	2216.8	2206.7	2184.9	2196.6
5°	2202.8	2213.7	2203.6	2181.0	2184.9
7.5°	2191.9	2202.8	2191.9	2169.3	2174.0
10°	2175.6	2187.2	2176.3	2156.9	2161.6
12.5°	2153.0	2165.5	2156.1	2136.7	2139.8
15°	2125.0	2139.0	2132.0	2106.3	2109.4
17.5°	2090.8	2107.1	2099.3	2073.7	2076.0
20°	2052.7	2067.4	2060.4	2037.9	2040.2
22.5°	2006.0	2022.3	2015.3	1995.1	1993.6
25°	1953.9	1970.2	1964.8	1940.7	1938.3
27.5°	1895.5	1909.5	1905.7	1879.2	1876.9
30°	1827.9	1841.9	1838.8	1811.5	1806.9
32.5°	1752.4	1765.7	1761.8	1736.1	1732.2
35°	1673.1	1681.6	1677.0	1648.2	1647.4
37.5°	1582.1	1586.8	1582.9	1552.5	1552.5
40°	1482.5	1485.6	1477.9	1445.2	1443.6
42.5°	1376.0	1376.7	1362.7	1325.4	1320.0
45°	1263.2	1259.3	1243.7	1194.0	1187.7
47.5°	1144.2	1134.8	1121.6	1062.5	1052.4
50°	1023.6	1014.3	1000.3	929.5	918.6
52.5°	904.6	897.6	877.4	804.3	795.7
55°	792.6	790.3	759.2	694.6	688.4
57.5°	689.1	682.9	650.3	598.9	595.0
60°	596.6	582.6	552.3	516.5	512.6
62.5°	512.6	493.1	464.4	444.1	437.1
65°	437.9	416.1	385.8	382.7	376.5
67.5°	373.4	350.8	318.1	332.9	327.5
70°	317.4	297.1	262.1	294.8	289.3
72.5°	266.8	253.6	220.9	259.8	257.5
75°	224.0	217.0	189.8	227.9	230.2
77.5°	188.2	183.6	167.2	195.2	203.8
80°	158.7	150.1	145.5	165.7	173.5
82.5°	124.5	117.5	117.5	132.2	136.9
85°	85.6	83.2	82.4	95.7	91.8
87.5°	45.9	45.9	44.3	49.0	45.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)