

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: P798242

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798242
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-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

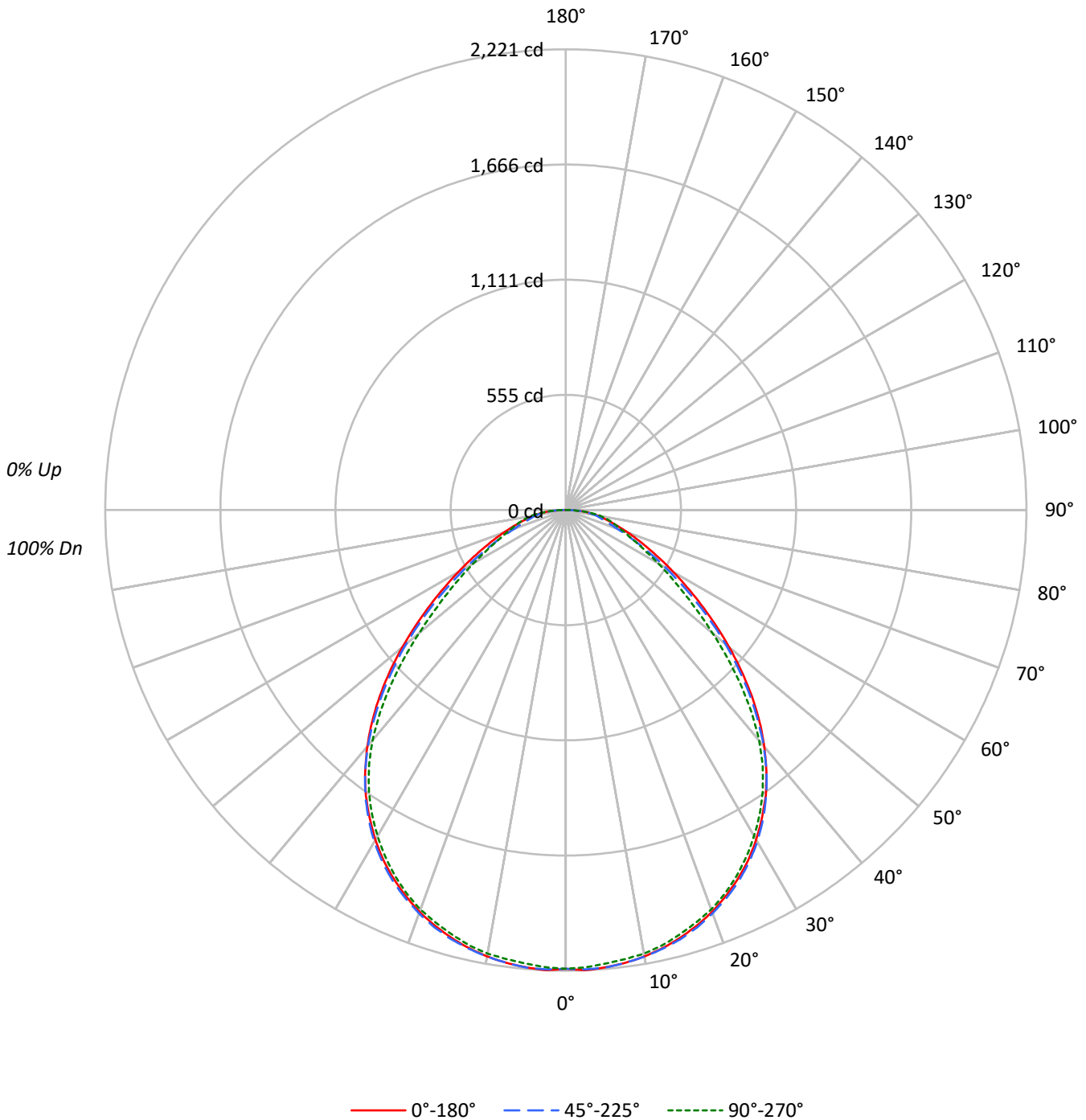
Lumens per Lamp: N/A
Luminaire Lumens: 5110.0 lumens
Efficiency: N/A
Efficacy: 149.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.22 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	2976	2976	2976
5°	2989	2990	2964
10°	2986	2987	2967
15°	2973	2983	2952
20°	2952	2964	2934
25°	2914	2930	2891
30°	2853	2870	2820
35°	2761	2767	2718
40°	2616	2607	2547
45°	2414	2377	2270
50°	2152	2103	1932
55°	1868	1789	1622
60°	1613	1493	1386
65°	1401	1234	1204
70°	1254	1036	1144
75°	1170	991	1202
80°	1235	1132	1350
85°	1326	1278	1423

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2414 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.9	4.1
10°-20°	601.8	11.8
20°-30°	903.5	17.7
30°-40°	1042.8	20.4
40°-50°	950.0	18.6
50°-60°	675.0	13.2
60°-70°	403.5	7.9
70°-80°	231.5	4.5
80°-90°	92.0	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°	1715.2	33.6
0°-40°	2758.0	54.0
0°-60°	4383.0	85.8
0°-90°	5110.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5110.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2212	2212	2212	2212	2212	
5°	2213	2224	2214	2191	2195	210
15°	2135	2149	2142	2116	2119	602
25°	1963	1979	1974	1949	1947	903
35°	1681	1689	1685	1656	1655	1047
45°	1269	1265	1249	1199	1193	975
55°	796	794	763	698	692	716
65°	440	418	388	384	378	442
75°	225	218	191	229	231	243
85°	86	84	83	96	92	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2212.0	2212.0	2212.0	2212.0	2212.0
2.5°	2220.6	2226.8	2216.7	2194.8	2206.5
5°	2212.7	2223.7	2213.5	2190.9	2194.8
7.5°	2201.8	2212.7	2201.8	2179.1	2183.8
10°	2185.4	2197.1	2186.2	2166.6	2171.3
12.5°	2162.7	2175.2	2165.9	2146.3	2149.5
15°	2134.6	2148.7	2141.6	2115.9	2119.0
17.5°	2100.2	2116.6	2108.8	2083.0	2085.4
20°	2061.9	2076.8	2069.8	2047.1	2049.4
22.5°	2015.1	2031.5	2024.4	2004.1	2002.6
25°	1962.7	1979.1	1973.7	1949.4	1947.1
27.5°	1904.1	1918.2	1914.3	1887.7	1885.4
30°	1836.1	1850.2	1847.1	1819.7	1815.0
32.5°	1760.4	1773.6	1769.7	1743.9	1740.0
35°	1680.7	1689.3	1684.6	1655.7	1654.9
37.5°	1589.2	1593.9	1590.0	1559.5	1559.5
40°	1489.2	1492.4	1484.5	1451.7	1450.2
42.5°	1382.2	1383.0	1368.9	1331.4	1325.9
45°	1268.9	1265.0	1249.4	1199.4	1193.1
47.5°	1149.3	1140.0	1126.7	1067.3	1057.1
50°	1028.2	1018.9	1004.8	933.7	922.8
52.5°	908.7	901.7	881.3	807.9	799.3
55°	796.2	793.8	762.6	697.7	691.5
57.5°	692.3	686.0	653.2	601.6	597.7
60°	599.3	585.2	554.7	518.8	514.9
62.5°	514.9	495.4	466.5	446.1	439.1
65°	439.9	418.0	387.5	384.4	378.2
67.5°	375.0	352.4	319.6	334.4	328.9
70°	318.8	298.5	263.3	296.1	290.7
72.5°	268.0	254.7	221.9	261.0	258.6
75°	225.0	218.0	190.6	228.9	231.3
77.5°	189.1	184.4	168.0	196.1	204.7
80°	159.4	150.8	146.1	166.4	174.2
82.5°	125.0	118.0	118.0	132.8	137.5
85°	85.9	83.6	82.8	96.1	92.2
87.5°	46.1	46.1	44.5	49.2	45.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)