

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: P798186

Luminaire Tested: 22GRSCT3-A-UNV-MID-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P292160)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22GRSCT3-A-UNV-MID-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

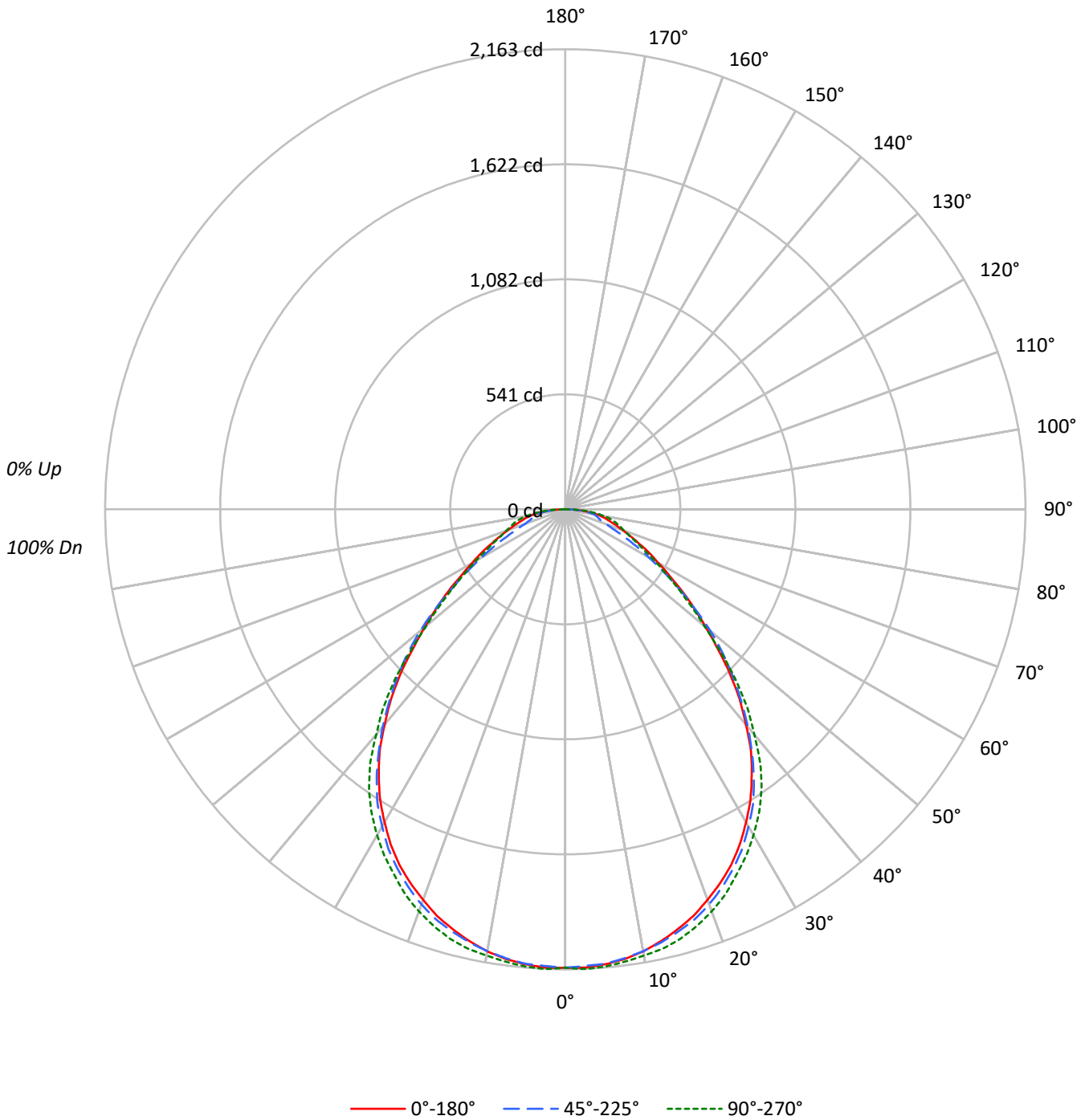
Lumens per Lamp: N/A
Luminaire Lumens: 4707.0 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 38.1
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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	88	88	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	76	76	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	66	66	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	58	58	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	51	51	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	46	46	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	41	41	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	37	37	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	34	34	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	31	31	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5800	5800	5800
5°	5802	5793	5829
10°	5767	5765	5822
15°	5694	5724	5825
20°	5596	5662	5762
25°	5477	5539	5640
30°	5279	5351	5497
35°	5019	5077	5282
40°	4640	4690	4856
45°	4168	4244	4311
50°	3605	3733	3567
55°	3145	3063	3022
60°	2724	2452	2617
65°	2435	1926	2351
70°	2259	1595	2319
75°	2254	1685	2573
80°	2497	2122	2903
85°	2606	2300	3279

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4311 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.0	4.3
10°-20°	581.0	12.3
20°-30°	859.3	18.3
30°-40°	969.7	20.6
40°-50°	854.8	18.2
50°-60°	586.4	12.5
60°-70°	346.0	7.4
70°-80°	215.9	4.6
80°-90°	90.0	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°	1644.2	34.9
0°-40°	2613.9	55.5
0°-60°	4055.0	86.1
0°-90°	4707.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4707.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2156	2156	2156	2156	2156	
5°	2148	2144	2145	2152	2158	204
15°	2044	2046	2055	2080	2091	576
25°	1844	1851	1866	1890	1899	847
35°	1528	1541	1546	1583	1608	952
45°	1095	1101	1115	1122	1133	841
55°	670	654	653	631	644	601
65°	382	336	302	349	369	385
75°	217	195	162	227	248	233
85°	84	79	74	98	106	91
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2155.5	2155.5	2155.5	2155.5	2155.5
2.5°	2156.8	2151.3	2149.1	2157.8	2163.2
5°	2147.9	2143.7	2144.6	2152.3	2157.8
7.5°	2132.8	2129.3	2129.3	2140.4	2145.9
10°	2110.7	2109.7	2109.7	2122.9	2130.5
12.5°	2080.1	2081.3	2085.5	2103.1	2116.2
15°	2043.9	2046.1	2054.8	2080.1	2090.9
17.5°	2004.6	2004.6	2021.9	2041.7	2054.8
20°	1954.1	1957.3	1977.1	1999.1	2012.2
22.5°	1902.6	1908.1	1924.6	1949.6	1961.8
25°	1844.5	1851.1	1865.5	1889.5	1899.4
27.5°	1776.6	1785.3	1800.6	1818.2	1839.0
30°	1698.9	1712.1	1722.0	1746.0	1769.0
32.5°	1620.0	1632.1	1643.0	1668.2	1694.5
35°	1527.9	1541.0	1545.5	1582.9	1607.9
37.5°	1433.9	1439.3	1441.6	1478.7	1506.1
40°	1321.0	1331.9	1335.1	1364.8	1382.4
42.5°	1212.6	1216.8	1223.5	1245.3	1266.3
45°	1095.3	1100.8	1115.1	1121.6	1132.7
47.5°	972.6	989.2	1005.5	984.7	985.7
50°	861.0	874.1	891.7	852.1	852.1
52.5°	761.2	767.9	768.9	736.0	742.7
55°	670.4	653.8	652.8	630.8	644.2
57.5°	579.3	557.6	549.9	543.2	558.6
60°	506.1	466.5	455.6	465.5	486.3
62.5°	445.7	395.5	374.7	399.9	418.5
65°	382.4	336.3	302.4	349.4	369.2
67.5°	333.1	289.1	245.3	312.1	326.4
70°	287.1	252.9	202.7	283.6	294.7
72.5°	249.7	223.5	175.2	256.4	269.5
75°	216.8	195.0	162.1	226.7	247.5
77.5°	190.6	166.6	151.2	196.0	221.2
80°	161.1	136.9	136.9	164.3	187.3
82.5°	127.0	107.4	110.6	133.6	150.0
85°	84.4	78.9	74.5	97.5	106.2
87.5°	42.8	43.8	39.3	50.5	51.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)