

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: P798209

Luminaire Tested: 22GRSCT3-F1-UNV-HIGH-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2311-232-58)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22GRSCT3-F1-UNV-HIGH-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

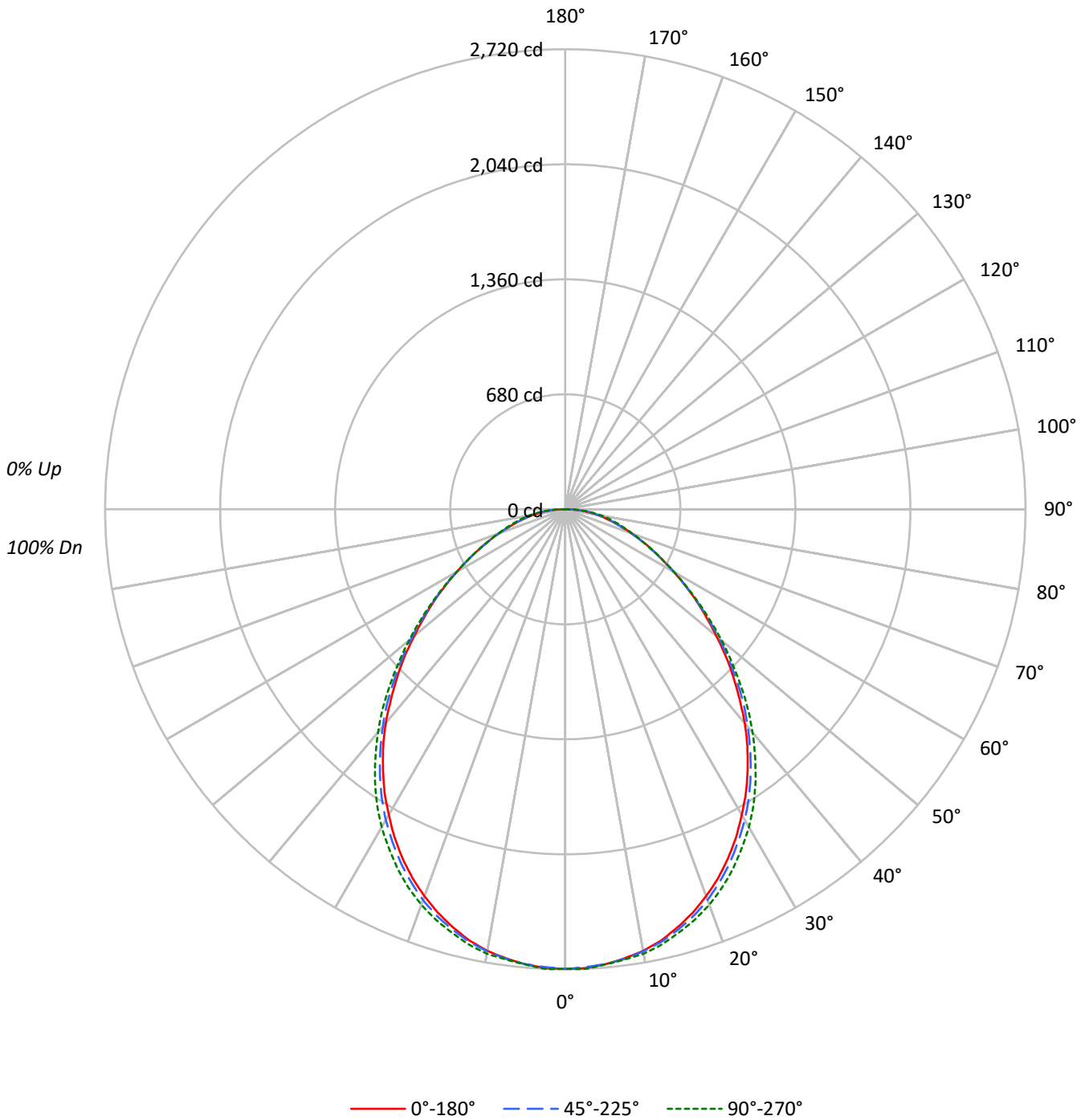
Lumens per Lamp: N/A
Luminaire Lumens: 6202.0 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50.9
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	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	65	65	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	56	56	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	50	50	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	44	44	44	42
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40	40	40	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	36	36	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	32	32	32	32	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7313	7313	7313
5°	7295	7292	7297
10°	7244	7252	7291
15°	7131	7171	7219
20°	6970	7041	7126
25°	6758	6840	6964
30°	6481	6593	6744
35°	6173	6273	6442
40°	5798	5892	6049
45°	5351	5452	5568
50°	4878	4961	5049
55°	4443	4462	4506
60°	3991	3991	3991
65°	3600	3582	3600
70°	3288	3258	3333
75°	3048	3058	3276
80°	2980	3082	3422
85°	3115	3322	3792

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5568 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.5	4.1
10°-20°	725.6	11.7
20°-30°	1061.1	17.1
30°-40°	1195.6	19.3
40°-50°	1106.2	17.8
50°-60°	854.3	13.8
60°-70°	563.8	9.1
70°-80°	322.0	5.2
80°-90°	116.9	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°	2043.2	32.9
0°-40°	3238.8	52.2
0°-60°	5199.3	83.8
0°-90°	6202.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6202.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2718	2718	2718	2718	2718	
5°	2701	2704	2700	2700	2702	256
15°	2560	2569	2574	2584	2591	721
25°	2276	2288	2304	2329	2346	1046
35°	1879	1891	1910	1944	1961	1173
45°	1406	1419	1433	1454	1463	1084
55°	947	946	951	958	960	847
65°	565	564	563	565	565	564
75°	293	296	294	309	315	314
85°	101	104	108	119	123	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2717.7	2717.7	2717.7	2717.7	2717.7
2.5°	2714.8	2717.7	2709.1	2713.9	2720.5
5°	2700.6	2704.4	2699.6	2699.6	2701.5
7.5°	2677.7	2683.4	2680.6	2683.4	2685.3
10°	2651.1	2655.8	2653.9	2661.5	2668.2
12.5°	2612.0	2617.7	2619.6	2629.2	2635.8
15°	2559.7	2569.2	2574.0	2583.5	2591.1
17.5°	2501.6	2512.1	2520.6	2533.0	2544.4
20°	2434.0	2446.4	2458.8	2475.0	2488.3
22.5°	2360.7	2372.1	2384.5	2406.4	2421.6
25°	2276.0	2288.4	2303.6	2329.3	2345.5
27.5°	2186.5	2198.0	2214.1	2243.6	2258.9
30°	2085.6	2101.8	2121.8	2151.3	2170.3
32.5°	1987.6	2000.9	2019.9	2050.4	2071.3
35°	1879.1	1891.4	1909.5	1943.8	1960.9
37.5°	1767.7	1777.2	1795.3	1829.6	1842.9
40°	1650.6	1660.1	1677.3	1708.7	1722.0
42.5°	1525.0	1541.1	1559.2	1583.0	1596.3
45°	1406.0	1419.3	1432.6	1453.6	1463.1
47.5°	1287.9	1296.5	1308.9	1326.0	1331.7
50°	1165.1	1174.7	1185.1	1197.5	1206.1
52.5°	1052.8	1058.5	1066.1	1073.7	1079.5
55°	947.1	946.2	951.0	957.6	960.5
57.5°	839.6	840.5	843.4	847.2	849.1
60°	741.5	740.6	741.5	743.4	741.5
62.5°	649.2	648.2	647.3	649.2	650.2
65°	565.4	563.5	562.6	565.4	565.4
67.5°	488.3	486.4	484.5	490.2	489.3
70°	417.9	416.9	414.1	421.7	423.6
72.5°	352.2	353.2	350.3	365.5	367.4
75°	293.2	296.0	294.1	309.4	315.1
77.5°	241.8	245.6	246.5	259.9	266.5
80°	192.3	195.1	198.9	212.3	220.8
82.5°	146.6	148.5	156.1	164.7	171.3
85°	100.9	103.8	107.6	119.0	122.8
87.5°	52.4	55.2	58.1	68.5	66.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)