

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: P798218

Luminaire Tested: 22GRSCT3-F125-UNV-HIGH-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P291964)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22GRSCT3-F125-UNV-HIGH-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

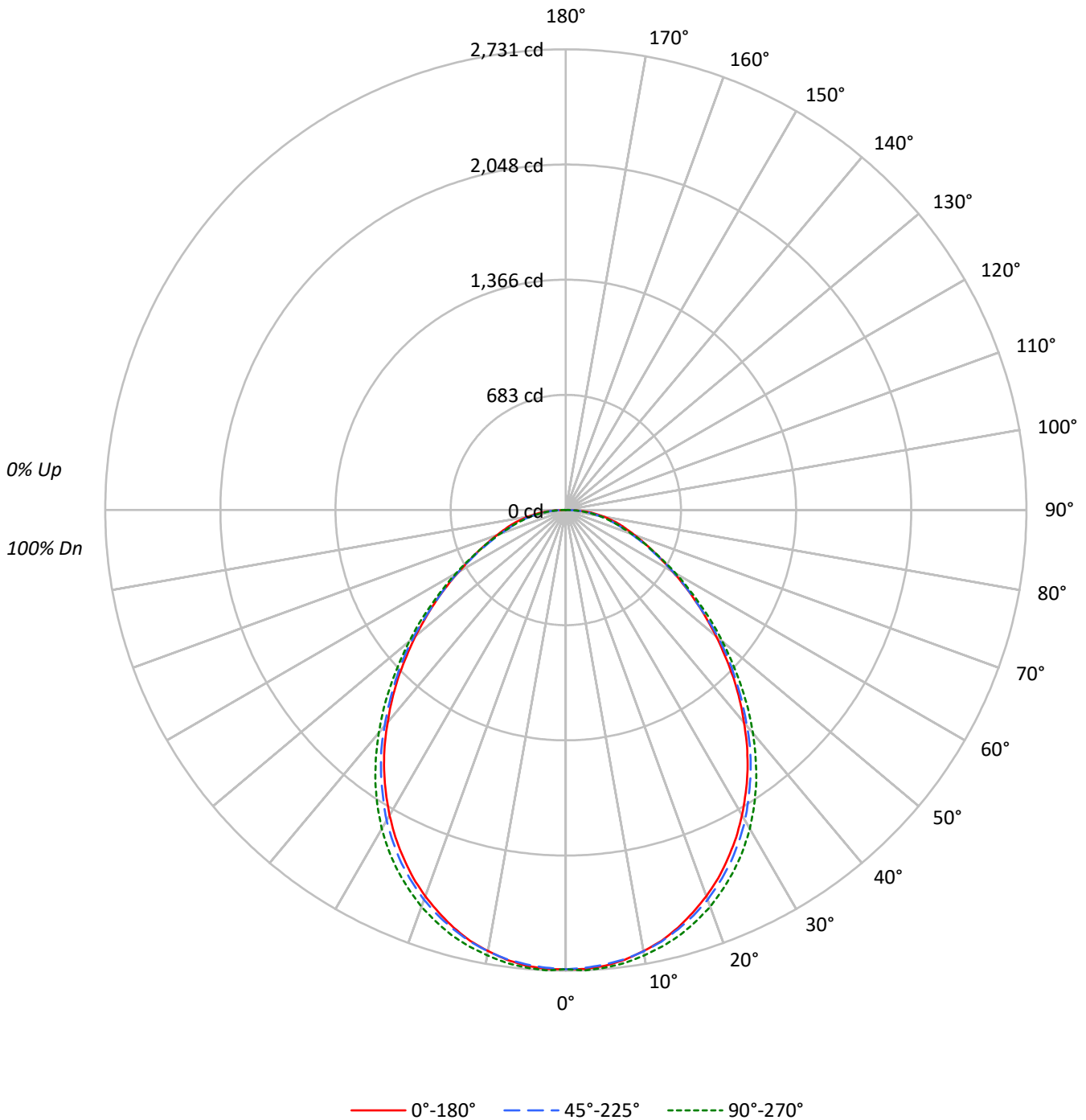
Lumens per Lamp: N/A
Luminaire Lumens: 6202.0 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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				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	100	100	100	100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85	85	85	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73	73	73	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62	62	62	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54	54	54	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48	48	48	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42	42	42	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38	38	38	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34	34	34	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31	31	31	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28	28	28	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7326	7326	7326
5°	7324	7304	7354
10°	7255	7259	7326
15°	7144	7168	7273
20°	6976	7039	7166
25°	6760	6853	7003
30°	6492	6605	6779
35°	6174	6274	6467
40°	5773	5869	6061
45°	5345	5427	5586
50°	4868	4947	5073
55°	4395	4409	4537
60°	3941	3957	4050
65°	3591	3519	3601
70°	3419	3227	3284
75°	3440	3113	3126
80°	3566	3143	3123
85°	3915	3331	3152

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5586 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.2	4.1
10°-20°	726.6	11.7
20°-30°	1063.5	17.1
30°-40°	1195.8	19.3
40°-50°	1102.7	17.8
50°-60°	849.9	13.7
60°-70°	560.8	9.0
70°-80°	326.4	5.3
80°-90°	118.9	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°	2047.4	33.0
0°-40°	3243.2	52.3
0°-60°	5195.8	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°	2723	2723	2723	2723	2723	
5°	2711	2705	2704	2717	2723	257
15°	2564	2564	2573	2596	2610	722
25°	2277	2288	2308	2340	2359	1047
35°	1879	1888	1910	1948	1968	1172
45°	1404	1406	1426	1455	1468	1082
55°	937	936	940	956	967	840
65°	564	561	553	557	566	566
75°	331	317	299	294	301	349
85°	127	125	108	99	102	134
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2722.6	2722.6	2722.6	2722.6	2722.6
2.5°	2722.6	2716.8	2715.5	2725.5	2731.4
5°	2711.2	2705.4	2704.1	2716.8	2722.6
7.5°	2688.2	2683.9	2685.2	2699.5	2707.0
10°	2655.0	2653.7	2656.6	2672.2	2681.0
12.5°	2616.3	2614.7	2620.5	2637.8	2649.1
15°	2564.3	2564.3	2573.1	2596.2	2610.5
17.5°	2502.5	2506.8	2519.8	2542.9	2558.8
20°	2436.2	2440.5	2458.0	2483.7	2502.5
22.5°	2362.8	2368.6	2385.9	2417.7	2433.3
25°	2276.6	2288.0	2308.2	2340.0	2358.6
27.5°	2187.3	2200.3	2219.1	2257.8	2275.0
30°	2089.4	2098.2	2125.5	2161.6	2181.7
32.5°	1985.7	1994.5	2017.6	2060.8	2078.0
35°	1879.4	1887.9	1909.7	1948.3	1968.5
37.5°	1764.4	1771.5	1797.5	1827.7	1849.2
40°	1643.4	1653.5	1670.7	1706.8	1725.4
42.5°	1525.5	1529.7	1548.5	1584.3	1598.9
45°	1404.5	1405.8	1426.0	1454.9	1467.9
47.5°	1279.4	1282.3	1306.7	1323.9	1336.9
50°	1162.7	1164.3	1181.6	1197.2	1211.8
52.5°	1046.3	1046.3	1054.8	1072.0	1090.9
55°	936.8	935.5	939.7	955.6	967.0
57.5°	833.1	831.8	837.7	847.7	856.2
60°	732.3	729.7	735.3	741.1	752.5
62.5°	643.3	646.2	639.0	647.5	656.3
65°	564.0	561.4	552.6	556.8	565.6
67.5°	496.3	492.1	477.8	480.7	490.8
70°	434.6	425.8	410.2	410.2	417.4
72.5°	378.4	369.9	349.8	351.1	354.0
75°	330.9	316.6	299.4	293.5	300.7
77.5°	279.2	267.5	251.9	247.4	250.3
80°	230.1	221.7	202.8	197.3	201.5
82.5°	182.7	175.5	154.1	149.5	151.1
85°	126.8	125.1	107.9	99.1	102.1
87.5°	67.6	69.2	56.2	50.4	53.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)