

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: P798254

Luminaire Tested: 24GRSCT3-A125-UNV-HIGH-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798254
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P293710)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24GRSCT3-A125-UNV-HIGH-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

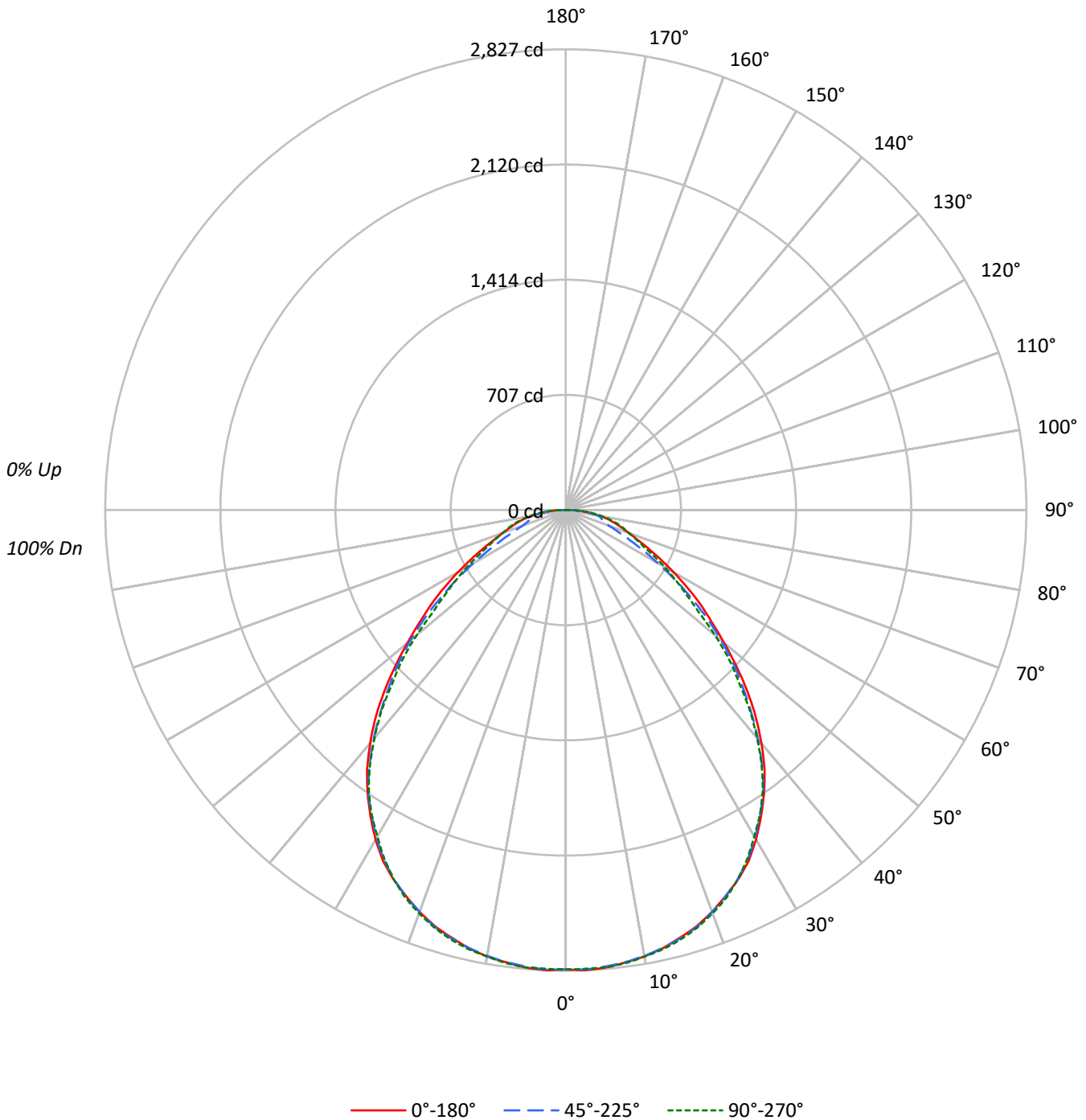
Lumens per Lamp: N/A
Luminaire Lumens: 6451.5 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 45.2
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



TEST NUMBER: P798254
CATALOG NUMBER: 24GRSCT3-A125-UNV-HIGH-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P798254

CATALOG NUMBER: 24GRSCT3-A125-UNV-HIGH-4000K

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	98	107	103	100	96	99	96	93	95	93	90	91	90	88	88	88	88	86
2	101	93	87	82	98	91	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	75	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	47	72	60	52	46	58	51	46	57	50	46	55	50	45	45	45	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	41	41	41	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	38	33	33	33	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	30	30	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3793	3793	3793
5°	3806	3798	3805
10°	3801	3795	3802
15°	3783	3789	3799
20°	3757	3757	3771
25°	3715	3707	3710
30°	3628	3609	3592
35°	3485	3475	3461
40°	3283	3223	3209
45°	3003	2920	2867
50°	2655	2602	2501
55°	2361	2200	2116
60°	2056	1760	1888
65°	1776	1365	1669
70°	1620	1117	1615
75°	1633	1203	1717
80°	1700	1568	1809
85°	1771	1866	2005

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3003 cd/sqm



TEST NUMBER: P798254
 CATALOG NUMBER: 24GRSCT3-A125-UNV-HIGH-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.4	4.1
10°-20°	767.0	11.9
20°-30°	1148.0	17.8
30°-40°	1311.8	20.3
40°-50°	1186.0	18.4
50°-60°	853.3	13.2
60°-70°	494.7	7.7
70°-80°	293.4	4.5
80°-90°	130.0	2.0
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°	2182.4	33.8
0°-40°	3494.2	54.2
0°-60°	5533.5	85.8
0°-90°	6451.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6451.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2819	2819	2819	2819	2819	
5°	2818	2814	2812	2808	2817	268
15°	2716	2720	2720	2717	2728	767
25°	2502	2499	2497	2492	2499	1150
35°	2122	2112	2116	2090	2107	1323
45°	1578	1551	1535	1521	1507	1212
55°	1006	987	938	914	902	900
65°	558	495	429	479	524	563
75°	314	263	231	286	330	332
85°	115	124	121	139	130	123
90°	0	0	0	0	0	



TEST NUMBER: P798254

CATALOG NUMBER: 24GRSCT3-A125-UNV-HIGH-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2819.1	2819.1	2819.1	2819.1	2819.1
2.5°	2827.2	2817.1	2822.1	2819.1	2818.0
5°	2818.0	2814.1	2812.0	2808.1	2817.1
7.5°	2800.0	2797.0	2798.0	2798.9	2805.1
10°	2781.8	2776.8	2777.9	2779.8	2782.8
12.5°	2753.7	2750.8	2751.7	2753.7	2760.7
15°	2715.5	2720.4	2720.4	2717.4	2727.5
17.5°	2677.1	2676.2	2681.2	2672.2	2686.3
20°	2623.9	2624.8	2623.9	2624.8	2633.8
22.5°	2563.3	2568.4	2565.4	2565.4	2575.5
25°	2502.1	2499.1	2497.0	2492.0	2499.1
27.5°	2428.6	2422.7	2417.6	2407.5	2412.5
30°	2334.9	2336.1	2323.0	2313.7	2311.9
32.5°	2230.4	2230.4	2218.2	2211.3	2217.3
35°	2121.7	2111.6	2115.5	2089.5	2107.4
37.5°	2003.8	1987.7	1978.7	1969.5	1975.7
40°	1868.9	1848.0	1834.8	1816.6	1826.8
42.5°	1727.1	1700.8	1684.7	1671.8	1675.7
45°	1578.1	1550.9	1534.8	1520.8	1506.7
47.5°	1421.1	1404.0	1396.0	1377.8	1361.7
50°	1268.2	1262.2	1242.9	1227.9	1194.7
52.5°	1128.2	1123.1	1093.0	1067.9	1025.5
55°	1006.4	987.3	938.0	913.8	901.9
57.5°	882.8	851.5	792.0	789.1	797.1
60°	764.0	725.7	654.1	670.2	701.6
62.5°	656.2	598.9	530.5	568.7	605.8
65°	557.7	495.3	428.7	479.1	524.3
67.5°	476.1	413.8	345.1	412.6	465.1
70°	411.7	348.1	283.9	361.3	410.5
72.5°	358.3	300.9	247.5	321.0	372.3
75°	314.1	262.7	231.4	285.7	330.2
77.5°	269.6	228.4	221.5	254.7	281.8
80°	219.4	200.3	202.4	223.3	233.5
82.5°	164.2	165.1	170.2	187.2	183.3
85°	114.7	123.9	120.9	138.8	129.9
87.5°	63.3	69.5	65.4	79.4	71.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)