

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: P798144

Luminaire Tested: 14GRSCT3-A125-UNV-HIGH-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P291180)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14GRSCT3-A125-UNV-HIGH-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

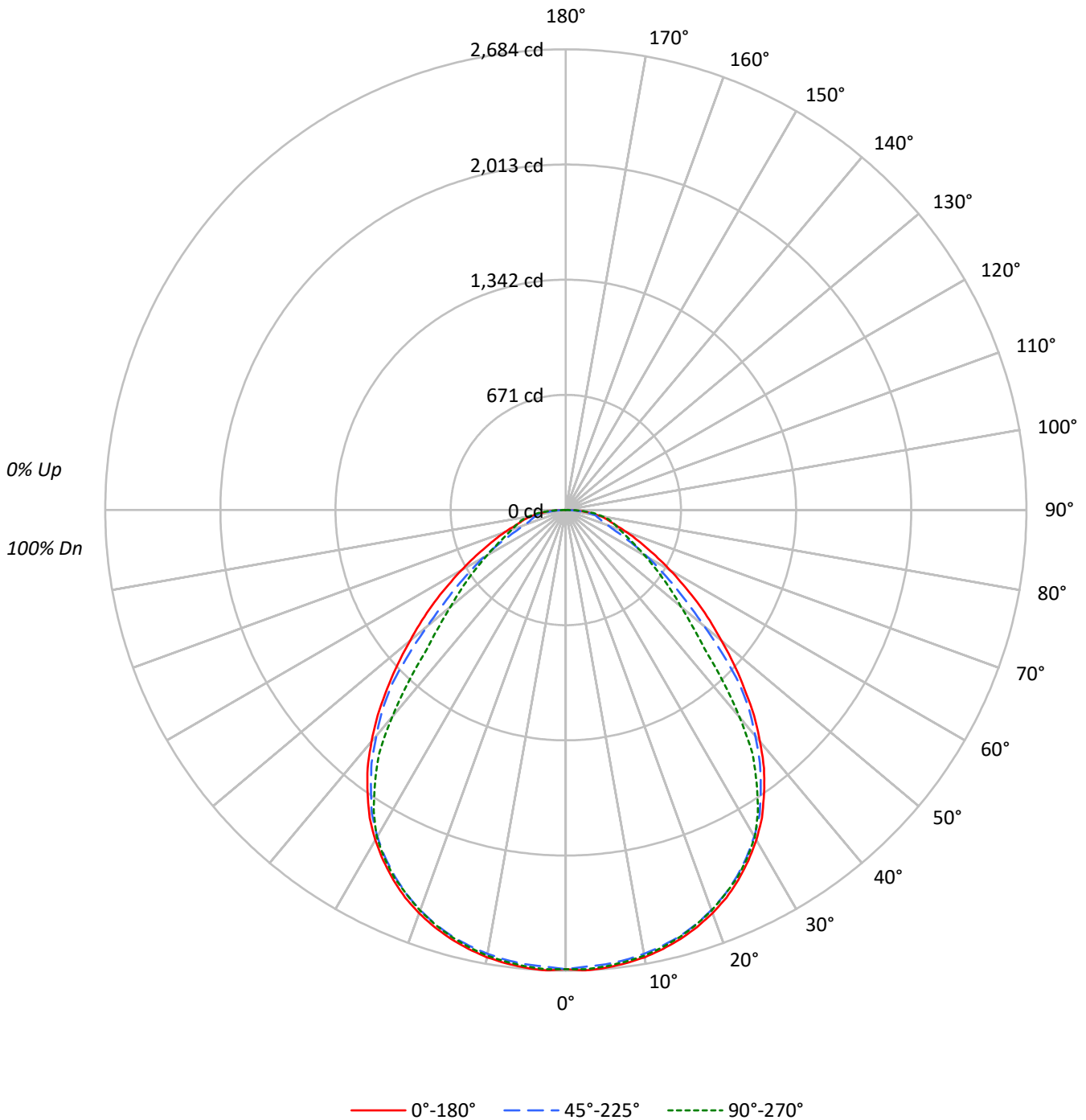
Lumens per Lamp: N/A
Luminaire Lumens: 5861.4 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.2
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	88	86	
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	76	74	
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	66	64	
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	58	56	
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	52	50	
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	46	44	
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	42	40	
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	38	36	
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	34	33	
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	31	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7198	7198	7198
5°	7232	7178	7210
10°	7230	7175	7204
15°	7205	7160	7171
20°	7157	7103	7111
25°	7062	6997	7017
30°	6900	6824	6841
35°	6616	6504	6365
40°	6186	6033	5537
45°	5599	5438	4342
50°	4953	4401	3661
55°	4383	3617	3229
60°	3783	2993	2861
65°	3289	2380	2632
70°	2975	2044	2633
75°	2854	2135	2940
80°	3181	2721	3433
85°	3359	2896	4116

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 5614 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.7	4.3
10°-20°	727.1	12.4
20°-30°	1088.1	18.6
30°-40°	1231.8	21.0
40°-50°	1049.2	17.9
50°-60°	710.4	12.1
60°-70°	424.1	7.2
70°-80°	265.0	4.5
80°-90°	112.0	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°	2068.9	35.3
0°-40°	3300.7	56.3
0°-60°	5060.3	86.3
0°-90°	5861.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5861.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2675	2675	2675	2675	2675	
5°	2677	2671	2657	2673	2669	255
15°	2586	2577	2570	2586	2574	730
25°	2378	2372	2356	2368	2363	1094
35°	2014	2002	1980	1959	1938	1255
45°	1471	1475	1429	1218	1141	1135
55°	934	882	771	688	688	835
65°	517	431	374	400	413	521
75°	274	246	205	269	283	297
85°	109	100	94	118	133	116
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2674.9	2674.9	2674.9	2674.9	2674.9
2.5°	2684.3	2677.3	2662.6	2680.1	2677.3
5°	2677.3	2670.6	2657.1	2673.3	2669.3
7.5°	2663.8	2657.1	2644.8	2661.1	2654.3
10°	2646.0	2638.1	2625.8	2643.6	2636.6
12.5°	2619.1	2610.8	2600.1	2617.6	2608.1
15°	2586.3	2576.8	2570.1	2586.3	2574.0
17.5°	2546.8	2538.8	2529.3	2545.6	2532.1
20°	2499.3	2492.5	2480.3	2489.8	2483.0
22.5°	2445.1	2435.6	2423.3	2434.0	2424.5
25°	2378.3	2371.5	2356.5	2367.5	2363.2
27.5°	2302.3	2298.0	2280.5	2294.0	2287.3
30°	2220.5	2209.7	2196.0	2200.2	2201.5
32.5°	2126.7	2113.2	2102.2	2092.7	2083.2
35°	2014.0	2001.7	1979.9	1959.4	1937.7
37.5°	1896.9	1880.7	1858.9	1813.9	1786.9
40°	1760.9	1752.9	1717.4	1654.9	1576.1
42.5°	1622.4	1614.1	1582.9	1442.8	1357.0
45°	1471.3	1475.3	1429.0	1218.2	1141.0
47.5°	1327.3	1338.0	1237.5	1040.2	999.5
50°	1183.0	1195.3	1051.3	899.0	874.5
52.5°	1056.5	1047.0	896.2	788.7	777.9
55°	934.2	882.4	770.9	688.2	688.2
57.5°	809.2	735.7	655.4	602.4	602.4
60°	702.9	611.9	556.1	520.9	531.6
62.5°	605.1	508.6	460.8	454.1	467.9
65°	516.6	431.1	373.8	399.8	413.3
67.5°	444.6	368.6	307.3	361.9	369.8
70°	378.1	320.8	259.8	333.1	334.6
72.5°	316.8	282.8	223.1	301.8	307.3
75°	274.5	246.0	205.3	269.3	282.8
77.5°	240.8	210.8	189.0	232.6	258.3
80°	205.3	172.8	175.6	195.8	221.5
82.5°	157.8	133.3	138.8	160.6	180.8
85°	108.8	100.5	93.8	118.3	133.3
87.5°	58.5	54.5	47.5	66.5	68.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)