

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: P798145

Luminaire Tested: 14GRSCT3-A125-UNV-HIGH-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798145
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-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

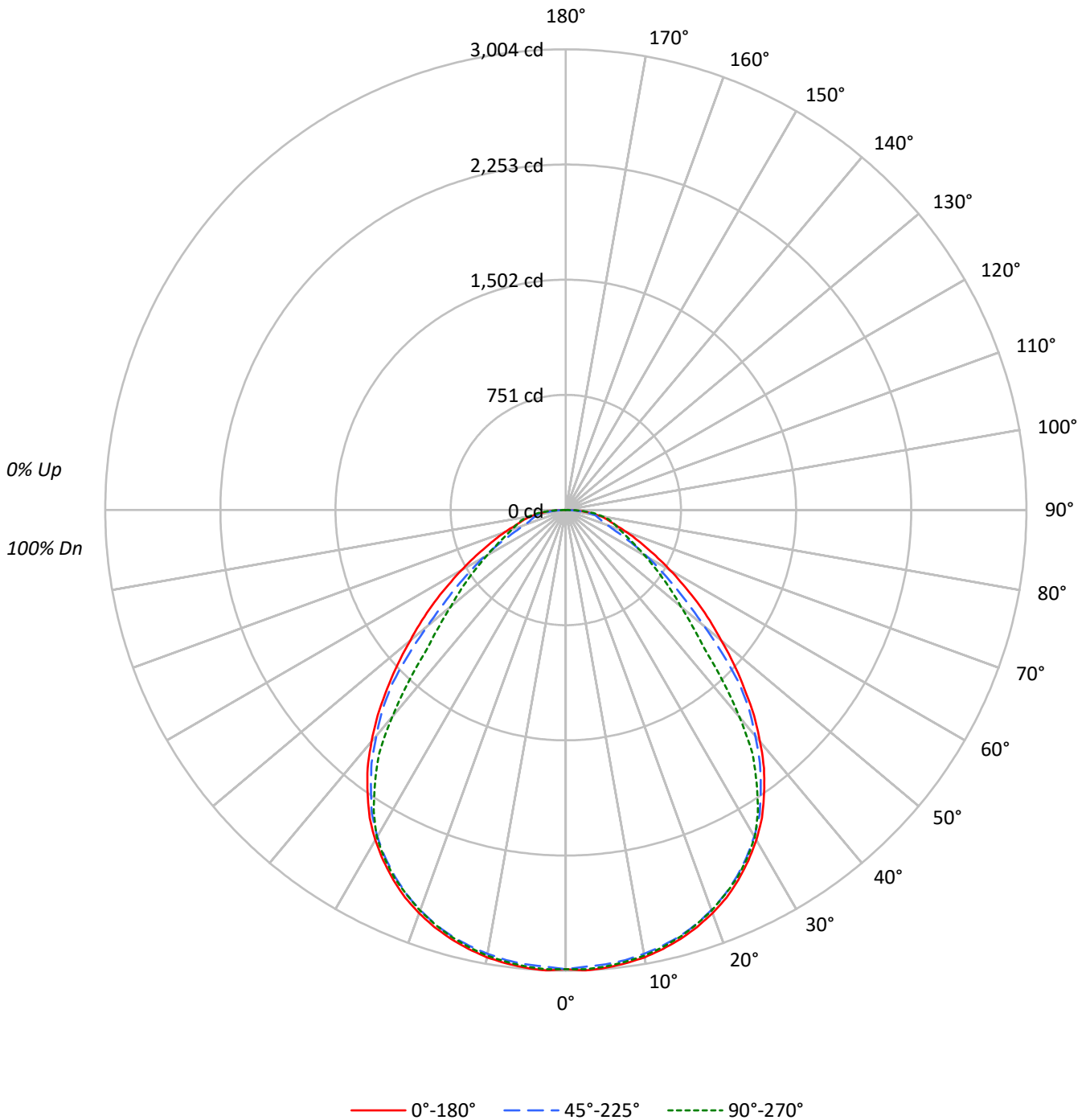
Lumens per Lamp: N/A
Luminaire Lumens: 6560.4 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): 120
Input Current (A_{in}): 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	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	76	76	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	66	66	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	58	58	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	52	52	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	46	46	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	42	42	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	38	38	38	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	34	34	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	31	31	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8057	8057	8057
5°	8095	8034	8071
10°	8093	8031	8064
15°	8064	8014	8026
20°	8011	7950	7959
25°	7904	7831	7854
30°	7723	7637	7656
35°	7405	7280	7124
40°	6923	6752	6197
45°	6267	6087	4860
50°	5543	4926	4097
55°	4906	4048	3613
60°	4234	3350	3202
65°	3682	2664	2946
70°	3330	2288	2947
75°	3195	2389	3291
80°	3561	3045	3842
85°	3758	3239	4607

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 6284 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.0	4.3
10°-20°	813.8	12.4
20°-30°	1217.9	18.6
30°-40°	1378.7	21.0
40°-50°	1174.3	17.9
50°-60°	795.1	12.1
60°-70°	474.7	7.2
70°-80°	296.6	4.5
80°-90°	125.4	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°	2315.7	35.3
0°-40°	3694.4	56.3
0°-60°	5663.8	86.3
0°-90°	6560.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6560.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2994	2994	2994	2994	2994	
5°	2997	2989	2974	2992	2988	285
15°	2895	2884	2877	2895	2881	817
25°	2662	2654	2638	2650	2645	1224
35°	2254	2240	2216	2193	2169	1405
45°	1647	1651	1600	1364	1277	1270
55°	1046	988	863	770	770	935
65°	578	482	418	448	463	583
75°	307	275	230	301	316	332
85°	122	112	105	132	149	130
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2993.9	2993.9	2993.9	2993.9	2993.9
2.5°	3004.5	2996.6	2980.1	2999.7	2996.6
5°	2996.6	2989.1	2974.0	2992.1	2987.7
7.5°	2981.5	2974.0	2960.2	2978.4	2970.9
10°	2961.6	2952.7	2939.0	2958.9	2951.0
12.5°	2931.4	2922.2	2910.2	2929.7	2919.1
15°	2894.7	2884.1	2876.6	2894.7	2881.0
17.5°	2850.5	2841.6	2831.0	2849.1	2834.0
20°	2797.4	2789.8	2776.1	2786.7	2779.2
22.5°	2736.7	2726.0	2712.3	2724.3	2713.7
25°	2661.9	2654.3	2637.5	2649.9	2645.1
27.5°	2576.8	2572.0	2552.5	2567.6	2560.0
30°	2485.3	2473.3	2457.8	2462.6	2464.0
32.5°	2380.3	2365.3	2352.9	2342.3	2331.6
35°	2254.1	2240.4	2216.1	2193.1	2168.7
37.5°	2123.1	2105.0	2080.6	2030.2	2000.0
40°	1970.9	1962.0	1922.2	1852.2	1764.1
42.5°	1815.9	1806.6	1771.6	1614.9	1518.9
45°	1646.8	1651.3	1599.5	1363.5	1277.1
47.5°	1485.6	1497.6	1385.1	1164.3	1118.7
50°	1324.1	1337.8	1176.6	1006.2	978.7
52.5°	1182.5	1171.8	1003.1	882.7	870.7
55°	1045.6	987.7	862.8	770.2	770.2
57.5°	905.7	823.4	733.5	674.2	674.2
60°	786.7	684.8	622.4	583.0	595.0
62.5°	677.3	569.3	515.8	508.2	523.7
65°	578.2	482.5	418.4	447.5	462.6
67.5°	497.6	412.6	344.0	405.0	413.9
70°	423.2	359.1	290.8	372.8	374.5
72.5°	354.6	316.5	249.7	337.8	344.0
75°	307.3	275.4	229.8	301.4	316.5
77.5°	269.6	235.9	211.6	260.3	289.1
80°	229.8	193.4	196.5	219.1	247.9
82.5°	176.6	149.2	155.4	179.7	202.3
85°	121.7	112.5	104.9	132.4	149.2
87.5°	65.5	61.0	53.2	74.4	76.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)