

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: P798253

Luminaire Tested: 24GRSCT3-A125-UNV-HIGH-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798253
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-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

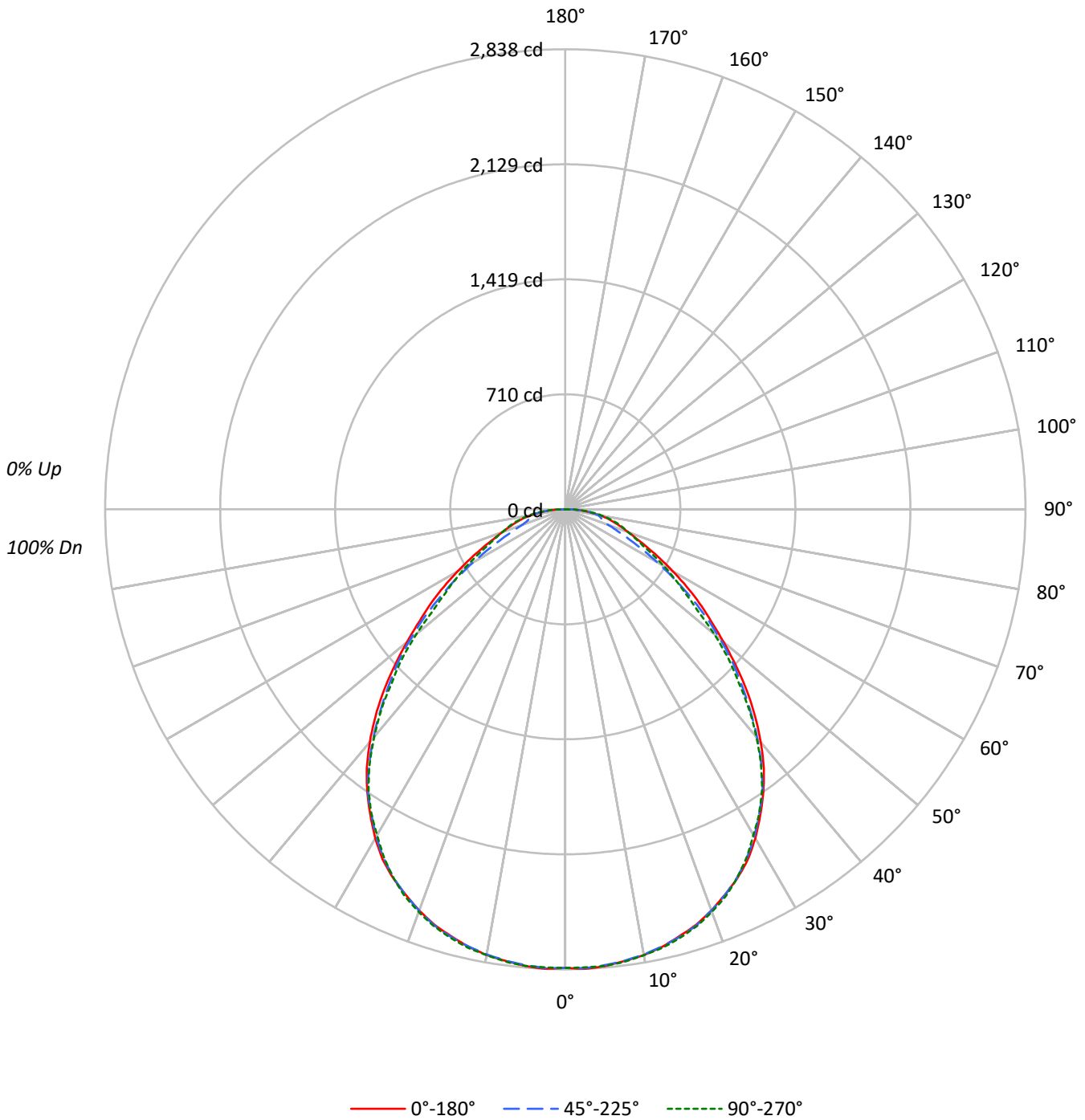
Lumens per Lamp: N/A
Luminaire Lumens: 6475.3 lumens
Efficiency: N/A
Efficacy: 148.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.5
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	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°	3807	3807	3807
5°	3820	3812	3819
10°	3815	3809	3816
15°	3796	3803	3813
20°	3771	3771	3785
25°	3728	3721	3724
30°	3641	3622	3605
35°	3498	3488	3474
40°	3295	3235	3220
45°	3014	2931	2878
50°	2664	2611	2510
55°	2369	2209	2123
60°	2063	1767	1895
65°	1782	1370	1675
70°	1626	1121	1621
75°	1639	1208	1723
80°	1706	1574	1815
85°	1777	1873	2012

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3014 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.4	4.1
10°-20°	769.8	11.9
20°-30°	1152.3	17.8
30°-40°	1316.7	20.3
40°-50°	1190.4	18.4
50°-60°	856.4	13.2
60°-70°	496.5	7.7
70°-80°	294.5	4.5
80°-90°	130.5	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°	2190.4	33.8
0°-40°	3507.1	54.2
0°-60°	5553.9	85.8
0°-90°	6475.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6475.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2830	2830	2830	2830	2830	
5°	2828	2824	2822	2818	2827	269
15°	2726	2730	2730	2727	2738	769
25°	2511	2508	2506	2501	2508	1155
35°	2130	2119	2123	2097	2115	1328
45°	1584	1557	1540	1526	1512	1217
55°	1010	991	942	917	905	904
65°	560	497	430	481	526	565
75°	315	264	232	287	331	333
85°	115	124	121	139	130	123
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2829.5	2829.5	2829.5	2829.5	2829.5
2.5°	2837.6	2827.4	2832.5	2829.5	2828.4
5°	2828.4	2824.4	2822.4	2818.4	2827.4
7.5°	2810.3	2807.3	2808.3	2809.2	2815.4
10°	2792.1	2787.0	2788.2	2790.0	2793.0
12.5°	2763.9	2760.9	2761.8	2763.9	2770.8
15°	2725.5	2730.4	2730.4	2727.4	2737.5
17.5°	2686.9	2686.0	2691.1	2682.1	2696.2
20°	2633.6	2634.5	2633.6	2634.5	2643.5
22.5°	2572.8	2577.9	2574.9	2574.9	2585.0
25°	2511.3	2508.3	2506.2	2501.1	2508.3
27.5°	2437.6	2431.6	2426.5	2416.3	2421.4
30°	2343.5	2344.7	2331.5	2322.3	2320.4
32.5°	2238.6	2238.6	2226.4	2219.4	2225.4
35°	2129.5	2119.4	2123.3	2097.2	2115.2
37.5°	2011.2	1995.0	1986.0	1976.8	1983.0
40°	1875.8	1854.8	1841.6	1823.3	1833.5
42.5°	1733.4	1707.1	1690.9	1678.0	1681.9
45°	1583.9	1556.7	1540.5	1526.4	1512.3
47.5°	1426.3	1409.2	1401.1	1382.9	1366.7
50°	1272.9	1266.9	1247.4	1232.4	1199.1
52.5°	1132.4	1127.3	1097.0	1071.8	1029.3
55°	1010.1	990.9	941.5	917.2	905.2
57.5°	886.0	854.6	795.0	792.0	800.0
60°	766.8	728.4	656.5	672.7	704.1
62.5°	658.6	601.1	532.4	570.8	608.0
65°	559.7	497.1	430.3	480.9	526.2
67.5°	477.9	415.3	346.4	414.1	466.8
70°	413.2	349.4	284.9	362.6	412.0
72.5°	359.6	302.0	248.4	322.1	373.7
75°	315.2	263.7	232.3	286.8	331.4
77.5°	270.6	229.2	222.3	255.6	282.9
80°	220.2	201.1	203.1	224.2	234.3
82.5°	164.8	165.7	170.8	187.9	184.0
85°	115.1	124.3	121.3	139.4	130.3
87.5°	63.6	69.8	65.6	79.7	71.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)