

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: P798252

Luminaire Tested: 24GRSCT3-A125-UNV-HIGH-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798252
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-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

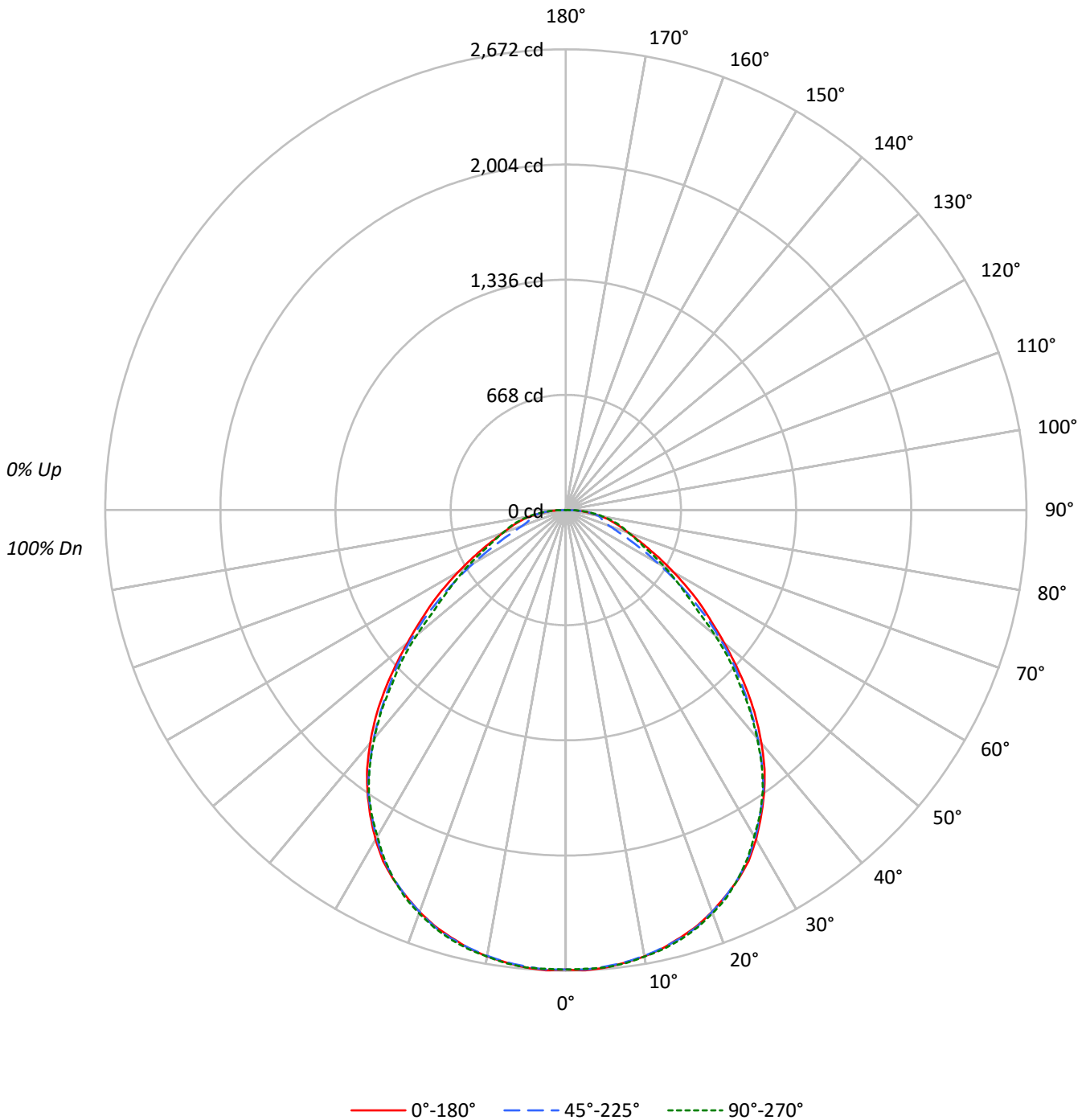
Lumens per Lamp: N/A
Luminaire Lumens: 6098.0 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 45.5
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				
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°	3585	3585	3585
5°	3598	3590	3596
10°	3592	3587	3594
15°	3575	3582	3591
20°	3551	3551	3565
25°	3511	3504	3507
30°	3429	3411	3395
35°	3294	3284	3272
40°	3103	3046	3033
45°	2838	2760	2710
50°	2509	2459	2364
55°	2232	2080	2000
60°	1943	1664	1784
65°	1678	1290	1578
70°	1531	1055	1526
75°	1543	1137	1622
80°	1607	1482	1710
85°	1673	1765	1894

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2838 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.8	4.1
10°-20°	724.9	11.9
20°-30°	1085.1	17.8
30°-40°	1239.9	20.3
40°-50°	1121.0	18.4
50°-60°	806.5	13.2
60°-70°	467.6	7.7
70°-80°	277.3	4.5
80°-90°	122.8	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°	2062.8	33.8
0°-40°	3302.8	54.2
0°-60°	5230.3	85.8
0°-90°	6098.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6098.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2665	2665	2665	2665	2665	
5°	2664	2660	2658	2654	2663	253
15°	2567	2571	2571	2568	2578	725
25°	2365	2362	2360	2355	2362	1087
35°	2006	1996	2000	1975	1992	1250
45°	1492	1466	1451	1438	1424	1146
55°	951	933	887	864	852	851
65°	527	468	405	453	496	532
75°	297	248	219	270	312	314
85°	108	117	114	131	123	116
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2664.7	2664.7	2664.7	2664.7	2664.7
2.5°	2672.3	2662.7	2667.5	2664.7	2663.6
5°	2663.6	2659.9	2657.9	2654.2	2662.7
7.5°	2646.6	2643.8	2644.7	2645.5	2651.4
10°	2629.4	2624.6	2625.7	2627.5	2630.3
12.5°	2602.9	2600.0	2600.9	2602.9	2609.4
15°	2566.7	2571.3	2571.3	2568.5	2578.1
17.5°	2530.4	2529.5	2534.3	2525.8	2539.1
20°	2480.1	2481.0	2480.1	2481.0	2489.5
22.5°	2422.9	2427.7	2424.9	2424.9	2434.4
25°	2365.0	2362.2	2360.2	2355.4	2362.2
27.5°	2295.6	2289.9	2285.1	2275.6	2280.3
30°	2207.0	2208.1	2195.7	2187.0	2185.2
32.5°	2108.2	2108.2	2096.7	2090.1	2095.8
35°	2005.5	1995.9	1999.6	1975.0	1992.0
37.5°	1894.0	1878.8	1870.3	1861.6	1867.5
40°	1766.5	1746.7	1734.3	1717.1	1726.7
42.5°	1632.5	1607.6	1592.4	1580.2	1583.9
45°	1491.6	1466.0	1450.7	1437.5	1424.2
47.5°	1343.2	1327.1	1319.5	1302.3	1287.1
50°	1198.7	1193.1	1174.8	1160.6	1129.3
52.5°	1066.4	1061.6	1033.1	1009.4	969.3
55°	951.3	933.2	886.6	863.8	852.5
57.5°	834.4	804.8	748.7	745.8	753.4
60°	722.1	686.0	618.3	633.5	663.1
62.5°	620.3	566.1	501.4	537.6	572.6
65°	527.1	468.1	405.2	452.9	495.5
67.5°	450.1	391.1	326.2	390.0	439.6
70°	389.1	329.1	268.3	341.5	388.0
72.5°	338.6	284.4	234.0	303.4	351.9
75°	296.8	248.3	218.7	270.1	312.1
77.5°	254.8	215.9	209.4	240.7	266.4
80°	207.4	189.3	191.3	211.1	220.7
82.5°	155.2	156.0	160.8	176.9	173.2
85°	108.4	117.1	114.3	131.2	122.7
87.5°	59.8	65.7	61.8	75.1	67.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)