

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: P798255

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798255
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-LOW-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

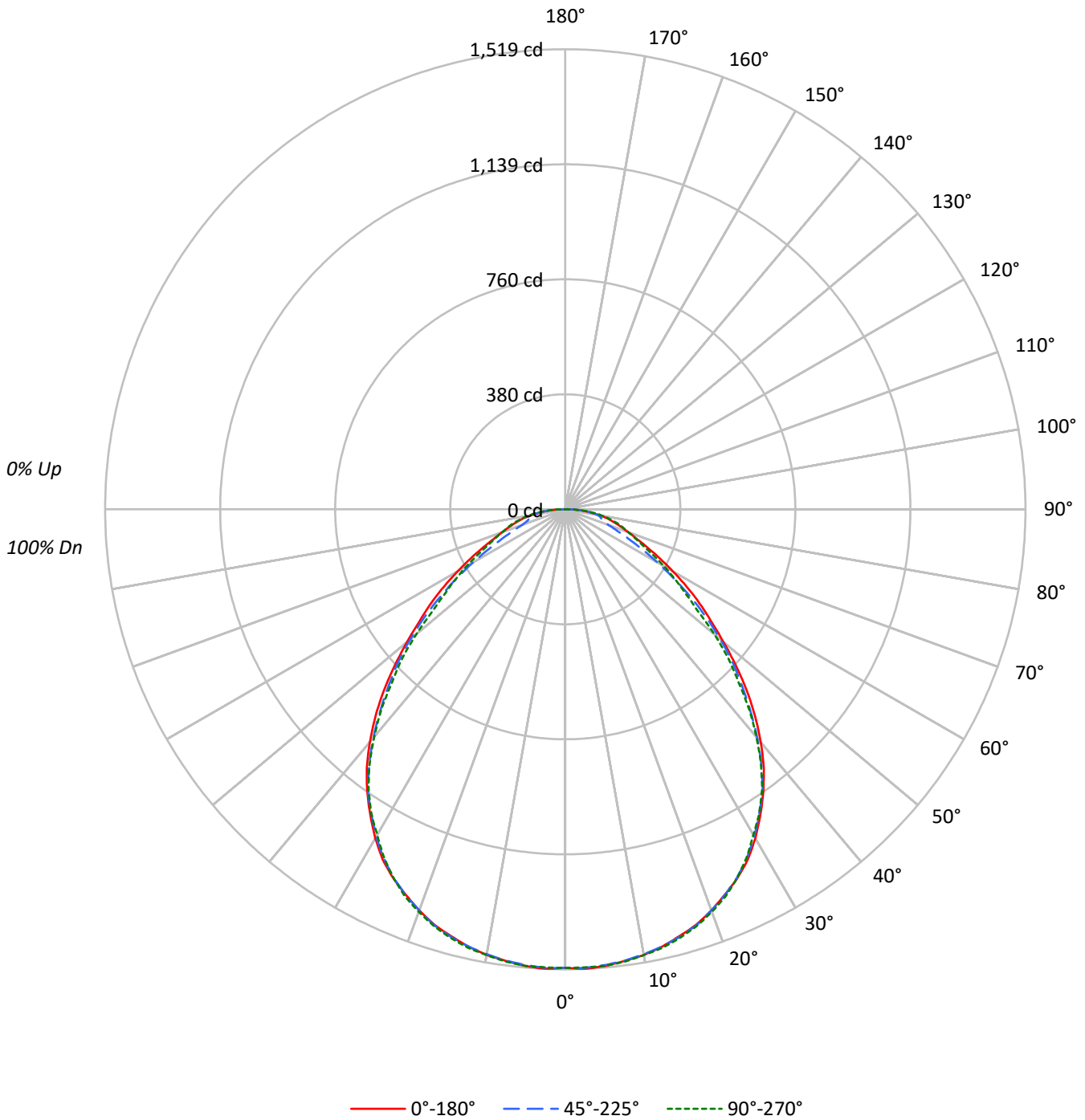
Lumens per Lamp: N/A
Luminaire Lumens: 3465.4 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24.3
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°	2037	2037	2037
5°	2044	2040	2044
10°	2041	2039	2042
15°	2032	2035	2041
20°	2018	2018	2026
25°	1995	1991	1993
30°	1949	1939	1929
35°	1872	1866	1859
40°	1763	1731	1723
45°	1613	1569	1540
50°	1426	1397	1343
55°	1268	1182	1136
60°	1104	946	1014
65°	954	733	897
70°	870	600	867
75°	877	646	922
80°	914	842	972
85°	951	1002	1078

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1613 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.6	4.1
10°-20°	412.0	11.9
20°-30°	616.6	17.8
30°-40°	704.6	20.3
40°-50°	637.1	18.4
50°-60°	458.3	13.2
60°-70°	265.7	7.7
70°-80°	157.6	4.5
80°-90°	69.8	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°	1172.2	33.8
0°-40°	1876.9	54.2
0°-60°	2972.2	85.8
0°-90°	3465.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3465.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1514	1514	1514	1514	1514	
5°	1514	1512	1510	1508	1513	144
15°	1459	1461	1461	1460	1465	412
25°	1344	1342	1341	1338	1342	618
35°	1140	1134	1136	1122	1132	710
45°	848	833	824	817	809	651
55°	541	530	504	491	484	484
65°	300	266	230	257	282	302
75°	169	141	124	154	177	178
85°	62	66	65	75	70	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1514.3	1514.3	1514.3	1514.3	1514.3
2.5°	1518.6	1513.2	1515.9	1514.3	1513.7
5°	1513.7	1511.5	1510.4	1508.3	1513.2
7.5°	1504.0	1502.4	1502.9	1503.4	1506.7
10°	1494.2	1491.5	1492.1	1493.1	1494.7
12.5°	1479.1	1477.5	1478.0	1479.1	1482.9
15°	1458.6	1461.2	1461.2	1459.6	1465.0
17.5°	1438.0	1437.5	1440.2	1435.4	1442.9
20°	1409.4	1409.9	1409.4	1409.9	1414.7
22.5°	1376.9	1379.6	1378.0	1378.0	1383.4
25°	1344.0	1342.4	1341.2	1338.5	1342.4
27.5°	1304.5	1301.3	1298.6	1293.1	1295.9
30°	1254.2	1254.8	1247.8	1242.8	1241.8
32.5°	1198.0	1198.0	1191.5	1187.8	1191.0
35°	1139.7	1134.2	1136.3	1122.3	1132.0
37.5°	1076.3	1067.7	1062.9	1057.9	1061.3
40°	1003.9	992.6	985.6	975.8	981.2
42.5°	927.7	913.6	904.9	898.0	900.1
45°	847.7	833.1	824.4	816.9	809.3
47.5°	763.3	754.2	749.8	740.1	731.4
50°	681.2	678.0	667.6	659.6	641.7
52.5°	606.0	603.3	587.1	573.6	550.8
55°	540.6	530.3	503.8	490.9	484.4
57.5°	474.2	457.3	425.4	423.8	428.2
60°	410.4	389.8	351.4	360.0	376.8
62.5°	352.5	321.7	284.9	305.5	325.4
65°	299.5	266.0	230.3	257.4	281.6
67.5°	255.8	222.2	185.4	221.6	249.8
70°	221.1	187.0	152.5	194.0	220.5
72.5°	192.4	161.6	133.0	172.4	200.0
75°	168.7	141.1	124.3	153.5	177.3
77.5°	144.8	122.7	119.0	136.8	151.4
80°	117.9	107.6	108.7	120.0	125.4
82.5°	88.2	88.7	91.4	100.5	98.4
85°	61.6	66.5	64.9	74.6	69.8
87.5°	34.0	37.3	35.1	42.7	38.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)