

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: P798147

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798147
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-LOW-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

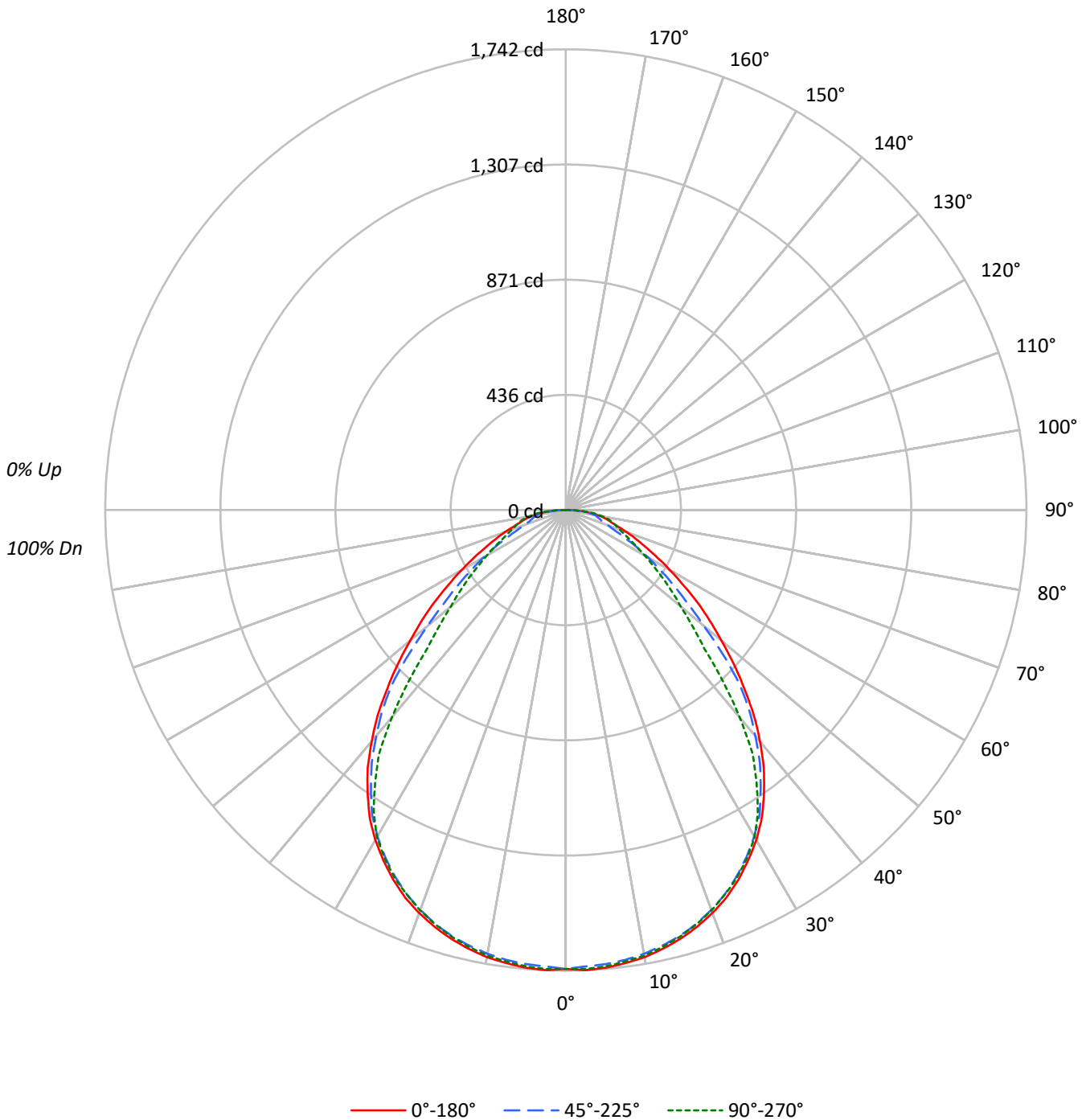
Lumens per Lamp: N/A
Luminaire Lumens: 3802.7 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 30.4
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	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°	4670	4670	4670
5°	4692	4656	4678
10°	4691	4655	4674
15°	4674	4645	4652
20°	4643	4608	4613
25°	4581	4539	4552
30°	4476	4427	4438
35°	4292	4220	4130
40°	4013	3914	3592
45°	3633	3528	2817
50°	3213	2855	2375
55°	2844	2346	2095
60°	2454	1942	1856
65°	2134	1544	1708
70°	1930	1327	1708
75°	1852	1385	1908
80°	2064	1765	2227
85°	2180	1877	2671

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 3642 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.6	4.3
10°-20°	471.7	12.4
20°-30°	706.0	18.6
30°-40°	799.1	21.0
40°-50°	680.7	17.9
50°-60°	460.9	12.1
60°-70°	275.2	7.2
70°-80°	171.9	4.5
80°-90°	72.7	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°	1342.3	35.3
0°-40°	2141.4	56.3
0°-60°	3283.0	86.3
0°-90°	3802.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3802.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1735	1735	1735	1735	1735	
5°	1737	1733	1724	1734	1732	165
15°	1678	1672	1667	1678	1670	473
25°	1543	1539	1529	1536	1533	710
35°	1307	1299	1284	1271	1257	814
45°	955	957	927	790	740	736
55°	606	572	500	446	446	542
65°	335	280	242	259	268	338
75°	178	160	133	175	184	192
85°	71	65	61	77	86	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1735.4	1735.4	1735.4	1735.4	1735.4
2.5°	1741.5	1737.0	1727.4	1738.8	1737.0
5°	1737.0	1732.6	1723.8	1734.4	1731.8
7.5°	1728.2	1723.8	1715.9	1726.4	1722.1
10°	1716.7	1711.5	1703.6	1715.1	1710.5
12.5°	1699.2	1693.8	1686.9	1698.2	1692.0
15°	1677.9	1671.8	1667.4	1677.9	1670.0
17.5°	1652.3	1647.1	1641.0	1651.5	1642.7
20°	1621.5	1617.1	1609.1	1615.3	1610.9
22.5°	1586.3	1580.1	1572.2	1579.1	1573.0
25°	1543.0	1538.6	1528.8	1536.0	1533.2
27.5°	1493.7	1490.9	1479.5	1488.3	1483.9
30°	1440.6	1433.6	1424.7	1427.5	1428.3
32.5°	1379.8	1371.0	1363.9	1357.7	1351.5
35°	1306.6	1298.6	1284.5	1271.2	1257.1
37.5°	1230.7	1220.1	1206.0	1176.8	1159.3
40°	1142.4	1137.2	1114.2	1073.6	1022.5
42.5°	1052.6	1047.2	1026.9	936.1	880.4
45°	954.6	957.1	927.1	790.4	740.3
47.5°	861.1	868.1	802.9	674.9	648.4
50°	767.5	775.5	682.0	583.2	567.3
52.5°	685.4	679.2	581.4	511.7	504.7
55°	606.1	572.5	500.1	446.5	446.5
57.5°	525.0	477.3	425.2	390.8	390.8
60°	456.0	397.0	360.8	337.9	344.9
62.5°	392.6	330.0	299.0	294.6	303.5
65°	335.1	279.7	242.5	259.4	268.2
67.5°	288.4	239.1	199.4	234.8	239.9
70°	245.3	208.1	168.6	216.1	217.1
72.5°	205.5	183.5	144.7	195.8	199.4
75°	178.1	159.6	133.2	174.7	183.5
77.5°	156.2	136.8	122.6	150.9	167.6
80°	133.2	112.1	113.9	127.0	143.7
82.5°	102.4	86.5	90.0	104.2	117.3
85°	70.6	65.2	60.8	76.7	86.5
87.5°	38.0	35.4	30.8	43.1	44.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)