

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: P798149

Luminaire Tested: 14GRSCT3-A125-UNV-LOW-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798149
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-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

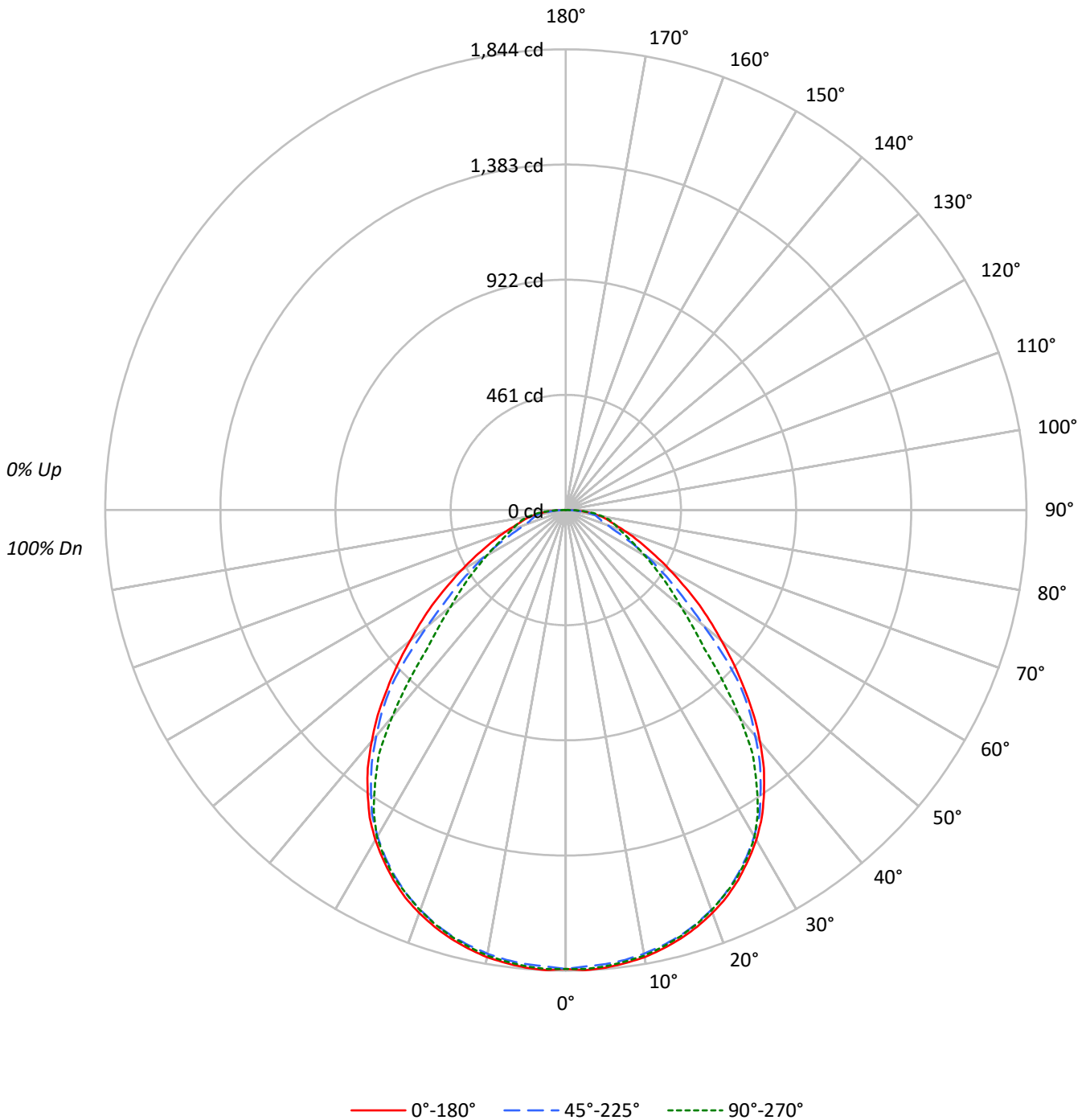
Lumens per Lamp: N/A
Luminaire Lumens: 4025.3 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 30.3
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	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°	4943	4943	4943
5°	4967	4929	4952
10°	4965	4928	4947
15°	4948	4917	4925
20°	4915	4878	4883
25°	4850	4805	4819
30°	4738	4686	4698
35°	4544	4467	4371
40°	4248	4143	3802
45°	3845	3735	2982
50°	3401	3022	2514
55°	3010	2484	2217
60°	2598	2055	1965
65°	2259	1635	1808
70°	2043	1404	1808
75°	1960	1466	2019
80°	2185	1869	2357
85°	2306	1988	2825

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 3856 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.2	4.3
10°-20°	499.3	12.4
20°-30°	747.3	18.6
30°-40°	845.9	21.0
40°-50°	720.5	17.9
50°-60°	487.9	12.1
60°-70°	291.3	7.2
70°-80°	182.0	4.5
80°-90°	76.9	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°	1420.8	35.3
0°-40°	2266.7	56.3
0°-60°	3475.1	86.3
0°-90°	4025.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4025.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1837	1837	1837	1837	1837	
5°	1839	1834	1825	1836	1833	175
15°	1776	1770	1765	1776	1768	501
25°	1633	1629	1618	1626	1623	751
35°	1383	1375	1360	1346	1331	862
45°	1010	1013	981	837	784	779
55°	642	606	529	473	473	574
65°	355	296	257	275	284	358
75°	188	169	141	185	194	204
85°	75	69	64	81	92	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1836.9	1836.9	1836.9	1836.9	1836.9
2.5°	1843.5	1838.6	1828.5	1840.5	1838.6
5°	1838.6	1834.0	1824.7	1835.9	1833.2
7.5°	1829.4	1824.7	1816.3	1827.5	1822.8
10°	1817.2	1811.7	1803.3	1815.5	1810.6
12.5°	1798.6	1793.0	1785.6	1797.6	1791.1
15°	1776.1	1769.6	1765.0	1776.1	1767.7
17.5°	1749.0	1743.5	1737.0	1748.1	1738.9
20°	1716.4	1711.7	1703.3	1709.8	1705.2
22.5°	1679.1	1672.6	1664.2	1671.6	1665.0
25°	1633.3	1628.6	1618.3	1625.9	1622.9
27.5°	1581.1	1578.1	1566.1	1575.4	1570.8
30°	1524.9	1517.5	1508.1	1511.0	1511.8
32.5°	1460.5	1451.2	1443.7	1437.1	1430.6
35°	1383.1	1374.7	1359.7	1345.6	1330.7
37.5°	1302.7	1291.5	1276.6	1245.7	1227.2
40°	1209.3	1203.8	1179.4	1136.5	1082.4
42.5°	1114.2	1108.5	1087.0	990.9	931.9
45°	1010.4	1013.2	981.4	836.6	783.6
47.5°	911.5	918.9	849.9	714.4	686.4
50°	812.4	820.8	721.9	617.4	600.5
52.5°	725.5	719.0	615.5	541.6	534.2
55°	641.6	606.0	529.4	472.6	472.6
57.5°	555.7	505.2	450.1	413.7	413.7
60°	482.7	420.2	381.9	357.7	365.1
62.5°	415.6	349.3	316.5	311.8	321.3
65°	354.8	296.1	256.7	274.6	283.9
67.5°	305.3	253.1	211.0	248.5	254.0
70°	259.7	220.3	178.4	228.7	229.8
72.5°	217.6	194.2	153.2	207.3	211.0
75°	188.5	169.0	141.0	185.0	194.2
77.5°	165.4	144.8	129.8	159.7	177.4
80°	141.0	118.7	120.6	134.5	152.1
82.5°	108.4	91.5	95.3	110.3	124.1
85°	74.7	69.0	64.4	81.2	91.5
87.5°	40.2	37.5	32.6	45.7	46.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)