

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: P798150

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798150
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-MID-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

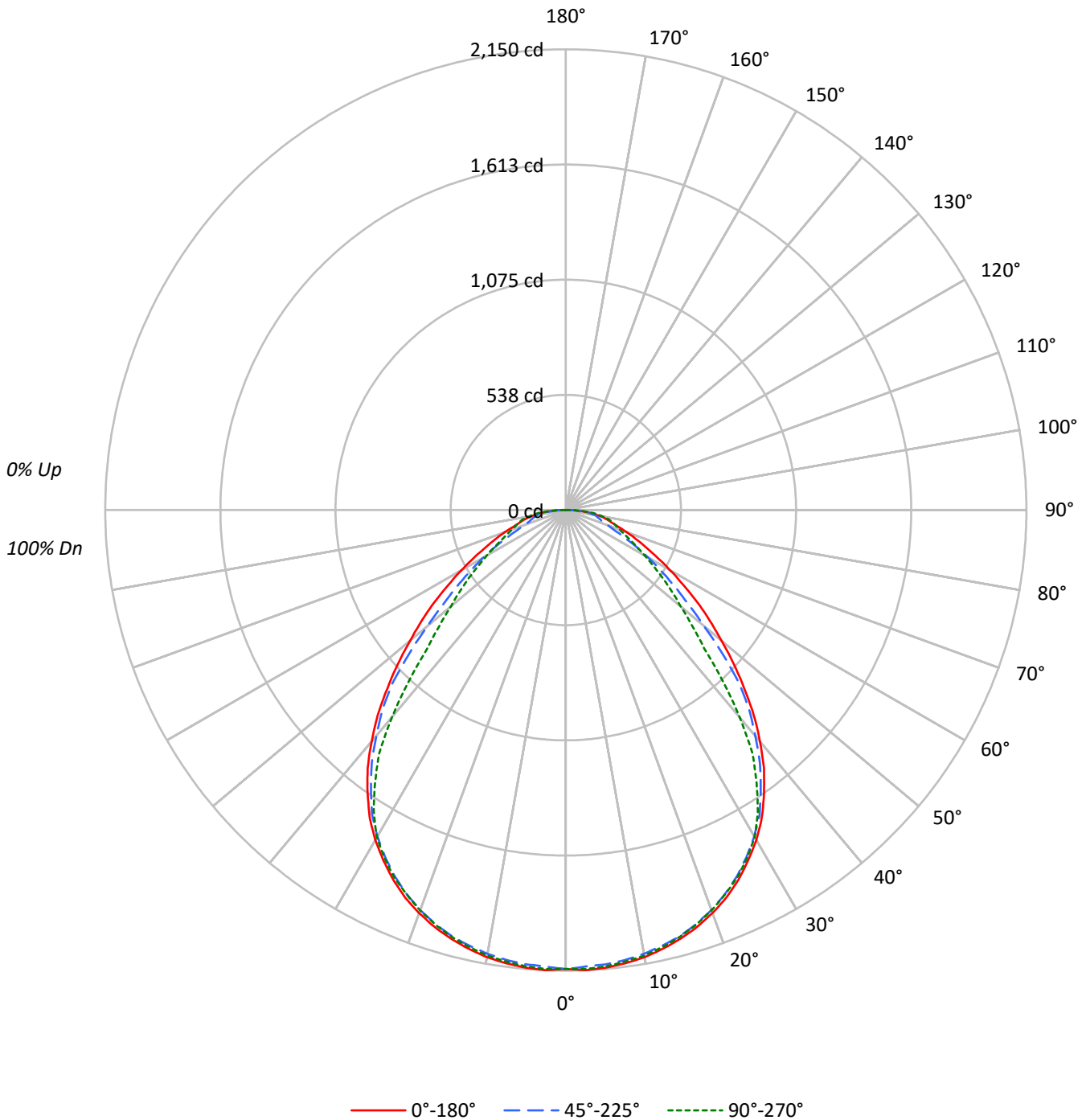
Lumens per Lamp: N/A
Luminaire Lumens: 4694.0 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 39.4
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°	5764	5764	5764
5°	5792	5748	5774
10°	5790	5746	5769
15°	5770	5734	5743
20°	5732	5688	5694
25°	5655	5603	5619
30°	5525	5464	5478
35°	5298	5209	5097
40°	4954	4831	4434
45°	4484	4355	3478
50°	3966	3525	2932
55°	3510	2897	2586
60°	3030	2397	2291
65°	2634	1906	2108
70°	2382	1637	2108
75°	2286	1709	2355
80°	2548	2179	2749
85°	2689	2319	3294

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4496 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.2	4.3
10°-20°	582.3	12.4
20°-30°	871.4	18.6
30°-40°	986.4	21.0
40°-50°	840.2	17.9
50°-60°	568.9	12.1
60°-70°	339.6	7.2
70°-80°	212.2	4.5
80°-90°	89.7	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°	1656.9	35.3
0°-40°	2643.3	56.3
0°-60°	4052.5	86.3
0°-90°	4694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4694.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2142	2142	2142	2142	2142	
5°	2144	2139	2128	2141	2138	204
15°	2071	2064	2058	2071	2061	584
25°	1905	1899	1887	1896	1893	876
35°	1613	1603	1586	1569	1552	1005
45°	1178	1182	1144	976	914	909
55°	748	707	617	551	551	669
65°	414	345	299	320	331	417
75°	220	197	164	216	226	238
85°	87	80	75	95	107	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2142.1	2142.1	2142.1	2142.1	2142.1
2.5°	2149.7	2144.1	2132.3	2146.3	2144.1
5°	2144.1	2138.7	2127.9	2140.9	2137.7
7.5°	2133.3	2127.9	2118.1	2131.1	2125.7
10°	2119.0	2112.7	2102.8	2117.1	2111.4
12.5°	2097.4	2090.8	2082.2	2096.2	2088.6
15°	2071.2	2063.6	2058.2	2071.2	2061.4
17.5°	2039.5	2033.2	2025.5	2038.6	2027.8
20°	2001.5	1996.1	1986.3	1993.9	1988.5
22.5°	1958.1	1950.5	1940.6	1949.2	1941.6
25°	1904.6	1899.2	1887.2	1896.0	1892.6
27.5°	1843.7	1840.3	1826.3	1837.1	1831.7
30°	1778.2	1769.6	1758.6	1762.0	1763.0
32.5°	1703.1	1692.3	1683.5	1675.9	1668.3
35°	1612.8	1603.0	1585.6	1569.2	1551.7
37.5°	1519.1	1506.1	1488.7	1452.6	1431.0
40°	1410.2	1403.8	1375.3	1325.3	1262.2
42.5°	1299.2	1292.6	1267.6	1155.5	1086.8
45°	1178.3	1181.5	1144.4	975.6	913.8
47.5°	1063.0	1071.5	991.1	833.0	800.4
50°	947.4	957.2	841.9	719.9	700.3
52.5°	846.0	838.4	717.7	631.6	623.0
55°	748.1	706.7	617.4	551.1	551.1
57.5°	648.0	589.1	524.9	482.4	482.4
60°	562.9	490.0	445.4	417.1	425.7
62.5°	484.6	407.3	369.0	363.6	374.7
65°	413.7	345.2	299.4	320.2	331.0
67.5°	356.0	295.2	246.1	289.8	296.2
70°	302.8	256.9	208.1	266.7	267.9
72.5°	253.7	226.5	178.6	241.7	246.1
75°	219.9	197.0	164.4	215.7	226.5
77.5°	192.9	168.8	151.4	186.2	206.8
80°	164.4	138.4	140.6	156.8	177.4
82.5°	126.4	106.7	111.2	128.6	144.8
85°	87.1	80.5	75.1	94.7	106.7
87.5°	46.9	43.7	38.0	53.2	54.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)