

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: P798259

Luminaire Tested: 24GRSCT3-A125-UNV-MID-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798259
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-MID-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

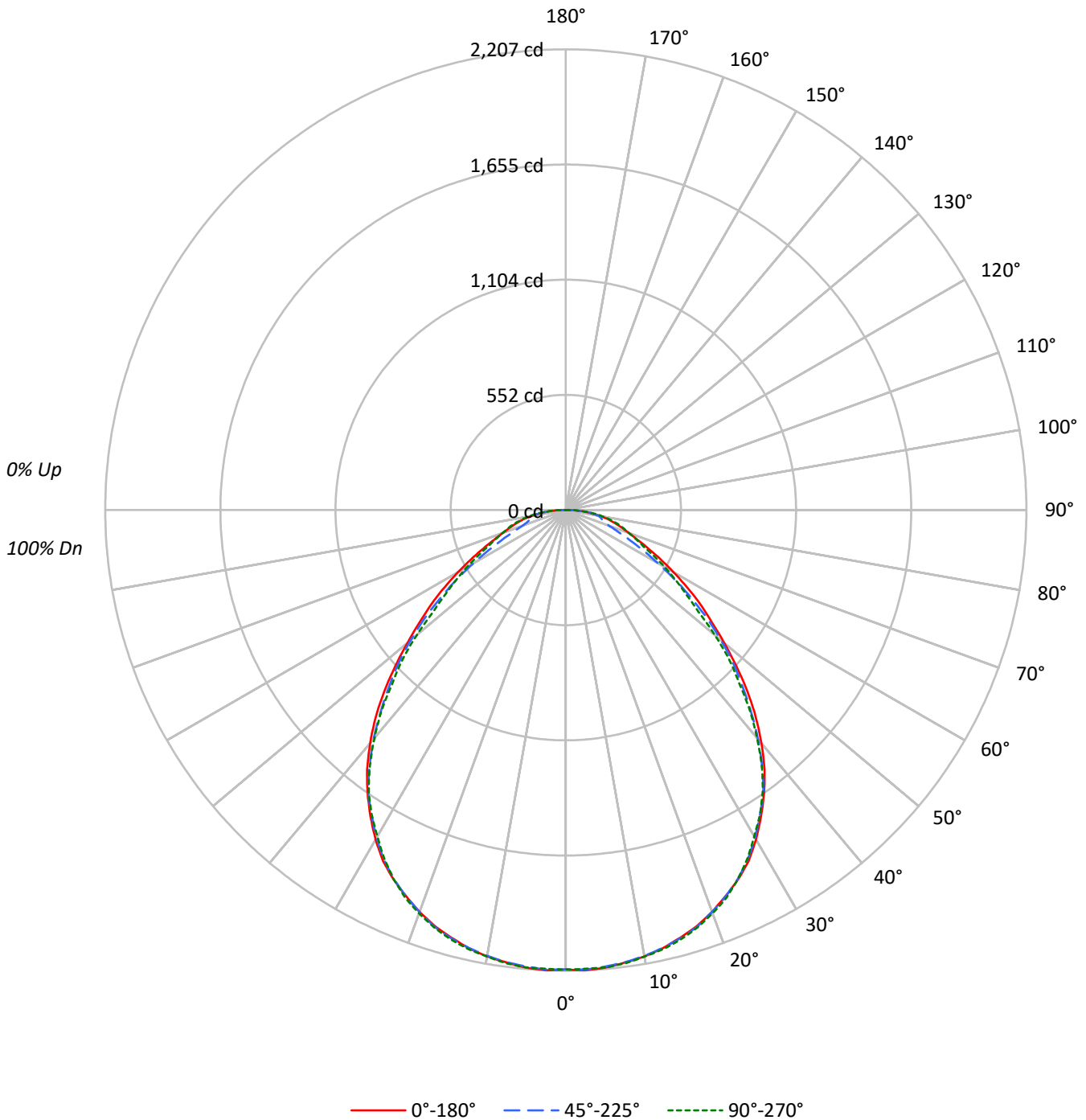
Lumens per Lamp: N/A
Luminaire Lumens: 5036.7 lumens
Efficiency: N/A
Efficacy: 151.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	2961	2961	2961
5°	2971	2965	2970
10°	2967	2963	2968
15°	2953	2958	2966
20°	2933	2933	2944
25°	2900	2894	2896
30°	2832	2818	2804
35°	2721	2713	2702
40°	2563	2516	2505
45°	2344	2280	2238
50°	2072	2031	1952
55°	1843	1718	1652
60°	1605	1374	1474
65°	1386	1066	1303
70°	1264	872	1261
75°	1275	939	1340
80°	1327	1224	1413
85°	1382	1457	1565

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2344 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.8	4.1
10°-20°	598.8	11.9
20°-30°	896.3	17.8
30°-40°	1024.1	20.3
40°-50°	925.9	18.4
50°-60°	666.1	13.2
60°-70°	386.2	7.7
70°-80°	229.1	4.5
80°-90°	101.5	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°	1703.8	33.8
0°-40°	2727.9	54.2
0°-60°	4319.9	85.8
0°-90°	5036.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5036.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2201	2201	2201	2201	2201	
5°	2200	2197	2195	2192	2199	209
15°	2120	2124	2124	2121	2129	598
25°	1953	1951	1949	1946	1951	898
35°	1656	1648	1652	1631	1645	1033
45°	1232	1211	1198	1187	1176	946
55°	786	771	732	713	704	703
65°	435	387	335	374	409	440
75°	245	205	181	223	258	259
85°	90	97	94	108	101	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2200.9	2200.9	2200.9	2200.9	2200.9
2.5°	2207.2	2199.3	2203.2	2200.9	2200.0
5°	2200.0	2196.9	2195.3	2192.3	2199.3
7.5°	2186.0	2183.6	2184.3	2185.1	2189.9
10°	2171.8	2167.8	2168.7	2170.1	2172.5
12.5°	2149.8	2147.5	2148.2	2149.8	2155.2
15°	2120.0	2123.8	2123.8	2121.4	2129.3
17.5°	2090.0	2089.3	2093.2	2086.2	2097.2
20°	2048.5	2049.2	2048.5	2049.2	2056.2
22.5°	2001.2	2005.1	2002.8	2002.8	2010.7
25°	1953.4	1951.0	1949.4	1945.5	1951.0
27.5°	1896.0	1891.4	1887.4	1879.5	1883.4
30°	1822.9	1823.8	1813.5	1806.3	1804.9
32.5°	1741.3	1741.3	1731.7	1726.3	1731.0
35°	1656.4	1648.5	1651.6	1631.2	1645.3
37.5°	1564.4	1551.8	1544.8	1537.6	1542.5
40°	1459.0	1442.7	1432.4	1418.2	1426.2
42.5°	1348.3	1327.8	1315.2	1305.2	1308.2
45°	1232.0	1210.8	1198.2	1187.3	1176.3
47.5°	1109.4	1096.1	1089.8	1075.6	1063.1
50°	990.1	985.4	970.3	958.6	932.7
52.5°	880.8	876.8	853.3	833.7	800.6
55°	785.7	770.8	732.3	713.4	704.1
57.5°	689.2	664.7	618.3	616.0	622.3
60°	596.4	566.6	510.7	523.3	547.7
62.5°	512.3	467.5	414.1	444.0	472.9
65°	435.4	386.6	334.7	374.1	409.3
67.5°	371.7	323.0	269.4	322.1	363.1
70°	321.4	271.8	221.6	282.0	320.5
72.5°	279.7	234.9	193.2	250.6	290.7
75°	245.2	205.1	180.7	223.1	257.8
77.5°	210.5	178.3	172.9	198.8	220.0
80°	171.3	156.4	158.0	174.4	182.3
82.5°	128.2	128.9	132.8	146.1	143.1
85°	89.5	96.7	94.4	108.4	101.4
87.5°	49.4	54.3	51.0	62.0	55.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)