

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: P798151

Luminaire Tested: 14GRSCT3-A125-UNV-MID-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798151
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-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

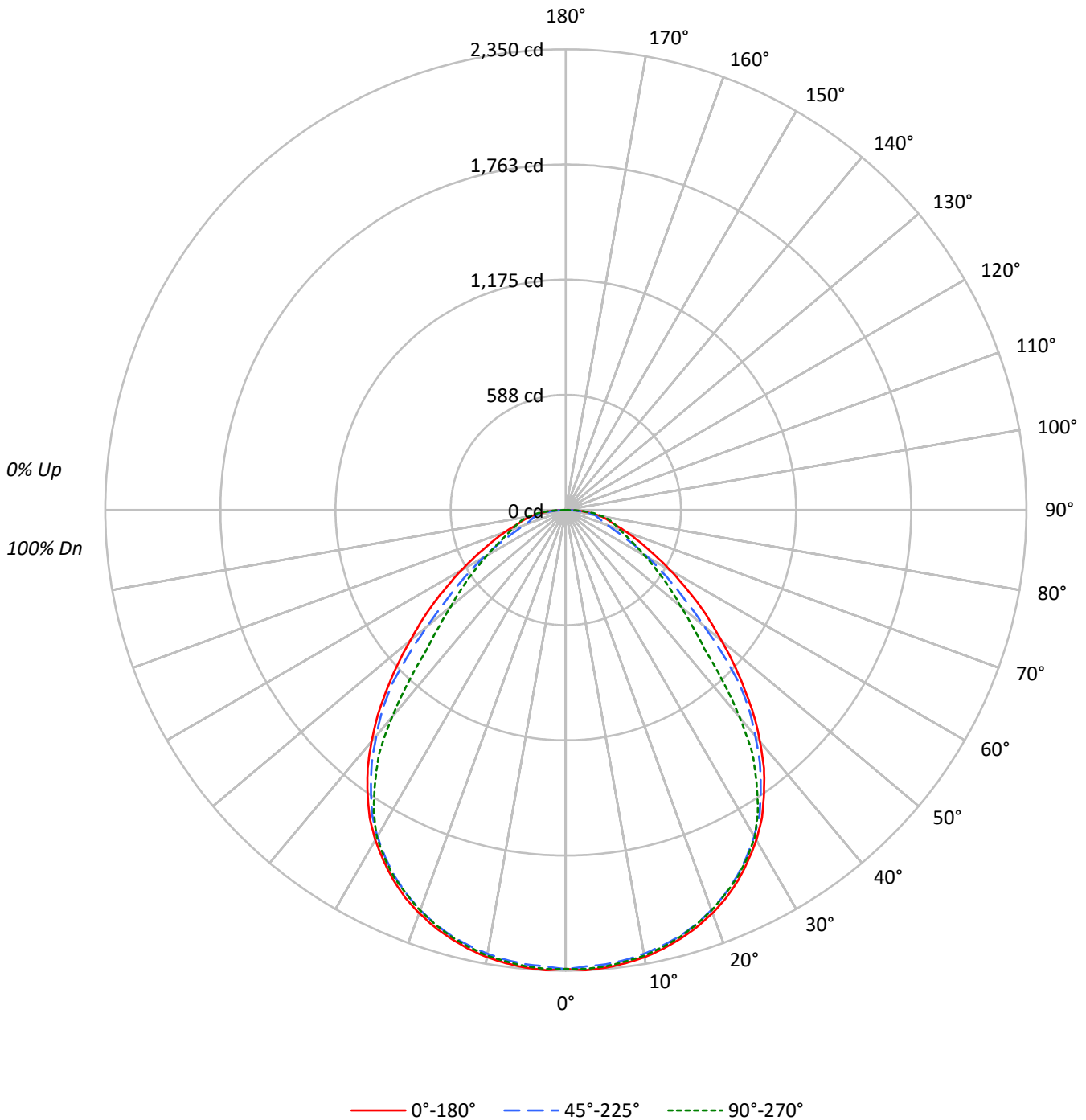
Lumens per Lamp: N/A
Luminaire Lumens: 5131.0 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	88	86	
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	76	74	
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	66	64	
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	58	56	
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	52	50	
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	46	44	
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	42	40	
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	38	36	
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	34	33	
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	31	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6301	6301	6301
5°	6331	6283	6312
10°	6329	6281	6307
15°	6307	6268	6277
20°	6265	6218	6224
25°	6182	6125	6143
30°	6040	5973	5988
35°	5792	5694	5572
40°	5415	5281	4847
45°	4902	4761	3801
50°	4335	3853	3205
55°	3837	3166	2826
60°	3312	2620	2505
65°	2879	2083	2304
70°	2604	1789	2305
75°	2498	1868	2574
80°	2785	2382	3005
85°	2939	2535	3603

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4915 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.1	4.3
10°-20°	636.5	12.4
20°-30°	952.5	18.6
30°-40°	1078.3	21.0
40°-50°	918.5	17.9
50°-60°	621.9	12.1
60°-70°	371.3	7.2
70°-80°	232.0	4.5
80°-90°	98.0	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°	1811.1	35.3
0°-40°	2889.4	56.3
0°-60°	4429.7	86.3
0°-90°	5131.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5131.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2342	2342	2342	2342	2342	
5°	2344	2338	2326	2340	2337	223
15°	2264	2256	2250	2264	2253	639
25°	2082	2076	2063	2072	2069	958
35°	1763	1752	1733	1715	1696	1099
45°	1288	1292	1251	1066	999	993
55°	818	772	675	602	602	731
65°	452	377	327	350	362	456
75°	240	215	180	236	248	260
85°	95	88	82	104	117	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2341.5	2341.5	2341.5	2341.5	2341.5
2.5°	2349.8	2343.7	2330.8	2346.1	2343.7
5°	2343.7	2337.8	2326.0	2340.2	2336.7
7.5°	2331.9	2326.0	2315.2	2329.5	2323.6
10°	2316.3	2309.3	2298.6	2314.2	2308.0
12.5°	2292.7	2285.5	2276.1	2291.4	2283.1
15°	2264.0	2255.7	2249.8	2264.0	2253.3
17.5°	2229.4	2222.4	2214.1	2228.3	2216.5
20°	2187.8	2181.9	2171.2	2179.5	2173.6
22.5°	2140.4	2132.1	2121.3	2130.7	2122.4
25°	2081.9	2076.0	2062.9	2072.5	2068.8
27.5°	2015.4	2011.6	1996.3	2008.1	2002.2
30°	1943.8	1934.4	1922.3	1926.1	1927.1
32.5°	1861.7	1849.9	1840.2	1831.9	1823.6
35°	1763.0	1752.3	1733.2	1715.2	1696.2
37.5°	1660.5	1646.3	1627.3	1587.8	1564.2
40°	1541.4	1534.5	1503.4	1448.6	1379.7
42.5°	1420.2	1413.0	1385.6	1263.0	1187.9
45°	1288.0	1291.5	1251.0	1066.4	998.8
47.5°	1161.9	1171.3	1083.3	910.6	874.9
50°	1035.6	1046.3	920.3	786.9	765.5
52.5°	924.8	916.5	784.5	690.4	681.0
55°	817.8	772.5	674.8	602.4	602.4
57.5°	708.4	644.0	573.7	527.3	527.3
60°	615.3	535.6	486.8	456.0	465.4
62.5°	529.7	445.2	403.4	397.5	409.6
65°	452.2	377.4	327.2	350.0	361.8
67.5°	389.2	322.7	269.0	316.8	323.7
70°	331.0	280.8	227.4	291.6	292.9
72.5°	277.3	247.6	195.3	264.2	269.0
75°	240.3	215.4	179.7	235.8	247.6
77.5°	210.8	184.5	165.5	203.6	226.1
80°	179.7	151.3	153.7	171.4	193.9
82.5°	138.1	116.7	121.5	140.5	158.2
85°	95.2	88.0	82.1	103.5	116.7
87.5°	51.2	47.7	41.6	58.2	59.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)