

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: P798165

Luminaire Tested: 14GRSCT3-F125-UNV-LOW-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P290788)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14GRSCT3-F125-UNV-LOW-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

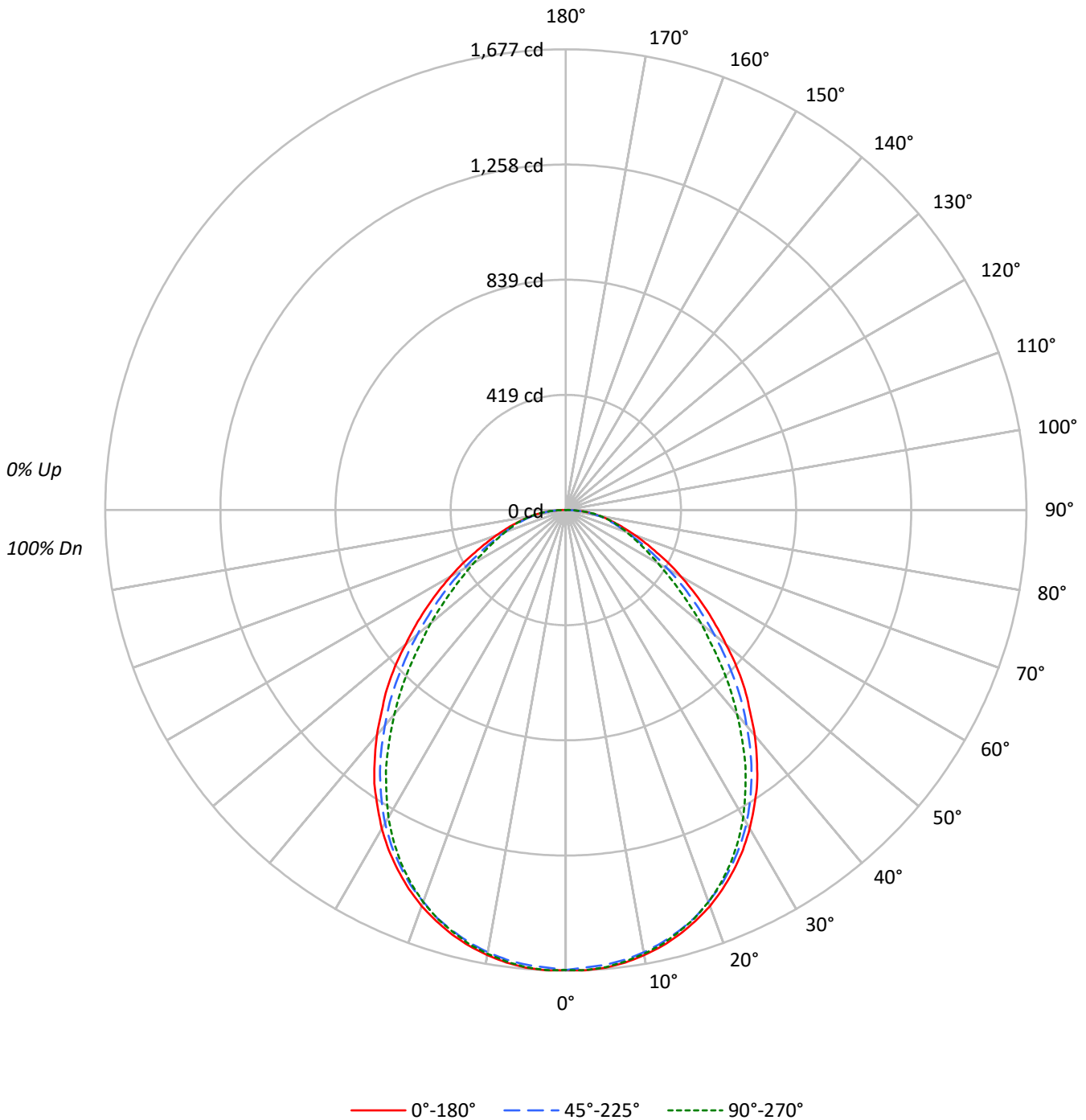
Lumens per Lamp: N/A
Luminaire Lumens: 3759.0 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	88	88	88	85
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	75	75	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	65	65	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	57	57	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	50	50	50	48
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	45	45	45	43
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40	40	40	40	38
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	36	36	36	34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	33	33	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4506	4506	4506
5°	4517	4488	4512
10°	4496	4468	4482
15°	4456	4422	4429
20°	4394	4346	4348
25°	4294	4241	4212
30°	4162	4090	4014
35°	3991	3875	3748
40°	3760	3598	3409
45°	3506	3294	3049
50°	3187	2955	2693
55°	2901	2621	2347
60°	2602	2308	2085
65°	2320	2055	1917
70°	2110	1873	1854
75°	1971	1825	1918
80°	1984	1889	1996
85°	2069	1933	2211

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3506 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.4	4.2
10°-20°	448.9	11.9
20°-30°	658.2	17.5
30°-40°	734.6	19.5
40°-50°	665.1	17.7
50°-60°	502.2	13.4
60°-70°	328.2	8.7
70°-80°	192.8	5.1
80°-90°	70.6	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°	1265.4	33.7
0°-40°	2000.1	53.2
0°-60°	3167.4	84.3
0°-90°	3759.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3759.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1675	1675	1675	1675	1675	
5°	1672	1668	1661	1671	1670	159
15°	1600	1597	1587	1596	1590	451
25°	1446	1441	1428	1426	1419	665
35°	1215	1204	1180	1153	1141	757
45°	921	907	866	819	801	708
55°	618	604	559	514	500	553
65°	364	353	323	304	301	366
75°	190	184	176	179	184	204
85°	67	64	63	71	72	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1674.6	1674.6	1674.6	1674.6	1674.6
2.5°	1677.3	1674.6	1666.6	1677.3	1676.4
5°	1672.0	1668.4	1661.4	1671.2	1670.2
7.5°	1661.4	1657.9	1650.7	1659.7	1657.9
10°	1645.5	1642.0	1635.0	1644.5	1640.2
12.5°	1625.3	1621.7	1613.7	1622.5	1619.1
15°	1599.6	1597.0	1587.3	1596.0	1589.9
17.5°	1568.8	1564.2	1557.3	1562.6	1558.1
20°	1534.4	1529.1	1517.5	1522.9	1518.5
22.5°	1492.9	1485.7	1477.8	1477.8	1471.6
25°	1446.2	1440.8	1428.5	1425.9	1418.7
27.5°	1395.9	1391.5	1375.6	1371.0	1358.7
30°	1339.4	1333.2	1316.4	1302.2	1291.7
32.5°	1276.8	1272.2	1249.4	1230.9	1215.8
35°	1215.0	1204.4	1179.6	1153.1	1140.8
37.5°	1142.6	1134.7	1103.9	1071.1	1054.4
40°	1070.3	1060.5	1024.3	988.2	970.5
42.5°	991.7	982.8	948.4	905.3	886.8
45°	921.2	907.1	865.5	818.8	801.1
47.5°	843.4	828.5	784.4	734.9	714.6
50°	761.3	751.8	705.9	658.2	643.3
52.5°	688.2	673.3	629.9	583.2	567.3
55°	618.4	604.3	558.6	514.5	500.3
57.5°	548.8	532.9	493.2	453.4	439.3
60°	483.4	467.5	428.8	396.2	387.4
62.5°	424.4	406.7	372.3	346.7	340.5
65°	364.4	352.8	322.8	304.3	301.0
67.5°	314.1	300.0	276.1	267.4	265.6
70°	268.2	258.4	238.1	235.6	235.6
72.5°	226.8	218.9	203.8	205.5	208.1
75°	189.6	184.5	175.5	179.1	184.5
77.5°	157.8	152.7	147.3	152.7	156.2
80°	128.0	122.7	121.9	126.2	128.8
82.5°	96.2	91.8	92.6	99.8	102.4
85°	67.0	64.4	62.6	70.6	71.6
87.5°	34.4	32.6	31.8	38.0	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)