

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: P798162

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798162
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-HIGH-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

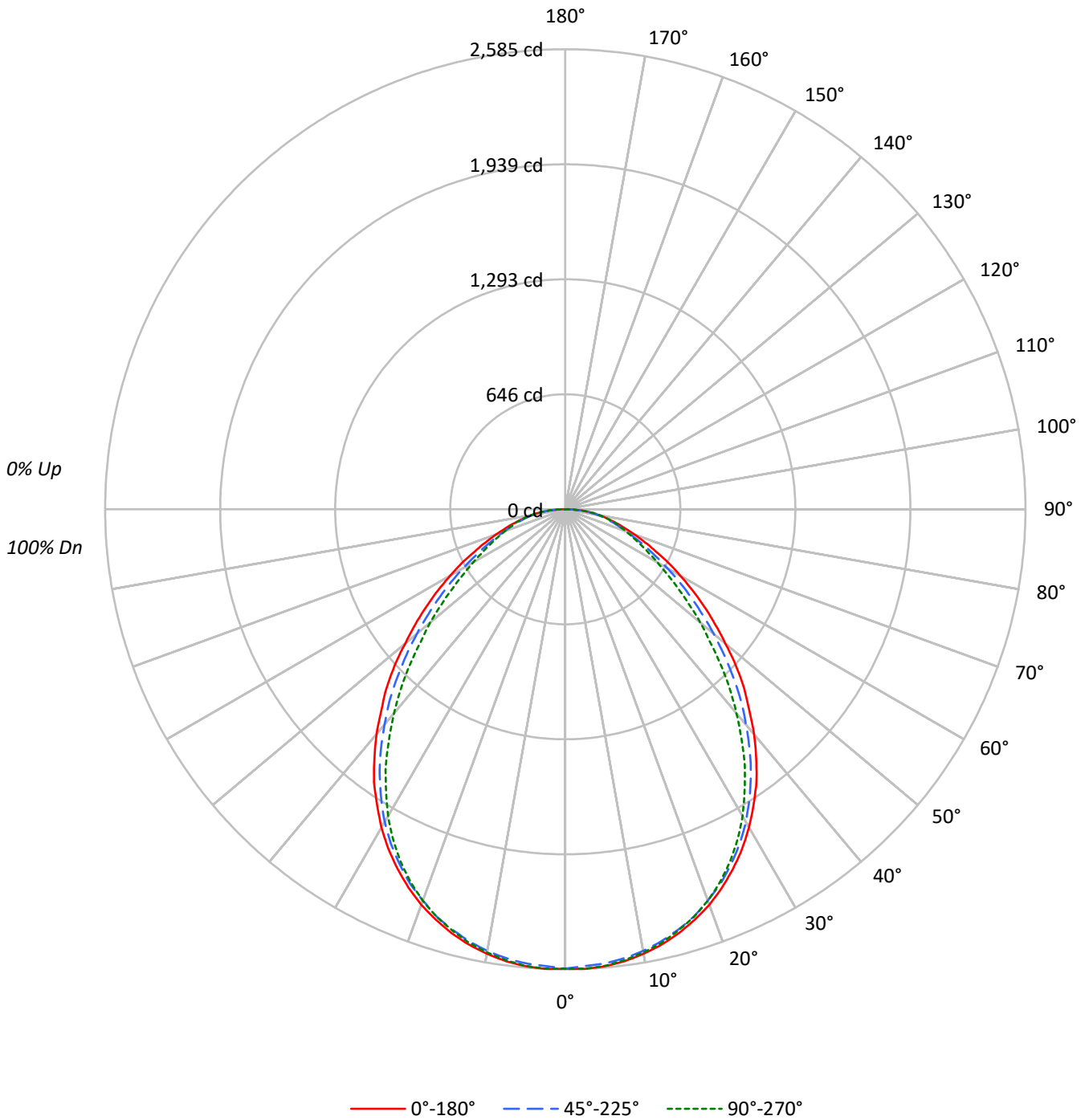
Lumens per Lamp: N/A
Luminaire Lumens: 5794.0 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.2
Input Voltage (V): 120
Input Current (A_{in}): 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



TEST NUMBER: P798162
CATALOG NUMBER: 14GRSCT3-F125-UNV-HIGH-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P798162

CATALOG NUMBER: 14GRSCT3-F125-UNV-HIGH-3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	100	100	100	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85	85	85	85
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73	73	73	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63	63	63	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55	55	55	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48	48	48	48
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43	43	43	43
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40	38	38	38	38
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34	34	34	34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31	31	31	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28	28	28	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6946	6946	6946
5°	6961	6918	6954
10°	6931	6886	6908
15°	6869	6816	6827
20°	6773	6698	6703
25°	6619	6538	6493
30°	6415	6305	6187
35°	6152	5973	5776
40°	5795	5546	5254
45°	5404	5077	4699
50°	4913	4555	4151
55°	4472	4039	3618
60°	4011	3557	3214
65°	3576	3168	2954
70°	3252	2888	2857
75°	3039	2813	2956
80°	3058	2910	3076
85°	3189	2979	3406

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5404 cd/sqm



TEST NUMBER: P798162
 CATALOG NUMBER: 14GRSCT3-F125-UNV-HIGH-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.1	4.2
10°-20°	691.9	11.9
20°-30°	1014.5	17.5
30°-40°	1132.3	19.5
40°-50°	1025.2	17.7
50°-60°	774.1	13.4
60°-70°	506.0	8.7
70°-80°	297.2	5.1
80°-90°	108.8	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°	1950.5	33.7
0°-40°	3082.8	53.2
0°-60°	4882.1	84.3
0°-90°	5794.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5794.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2581	2581	2581	2581	2581	
5°	2577	2572	2561	2576	2574	245
15°	2466	2462	2447	2460	2451	695
25°	2229	2221	2202	2198	2187	1025
35°	1873	1856	1818	1777	1758	1166
45°	1420	1398	1334	1262	1235	1091
55°	953	932	861	793	771	853
65°	562	544	498	469	464	563
75°	292	284	271	276	284	314
85°	103	99	96	109	110	110
90°	0	0	0	0	0	



TEST NUMBER: P798162

CATALOG NUMBER: 14GRSCT3-F125-UNV-HIGH-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2581.1	2581.1	2581.1	2581.1	2581.1
2.5°	2585.4	2581.1	2568.9	2585.4	2583.9
5°	2577.1	2571.6	2560.9	2575.9	2574.4
7.5°	2560.9	2555.4	2544.3	2558.1	2555.4
10°	2536.4	2530.9	2520.1	2534.8	2528.1
12.5°	2505.1	2499.6	2487.4	2500.8	2495.6
15°	2465.6	2461.6	2446.6	2460.1	2450.6
17.5°	2418.1	2411.1	2400.3	2408.6	2401.6
20°	2365.1	2356.8	2339.1	2347.3	2340.6
22.5°	2301.1	2290.0	2277.8	2277.8	2268.3
25°	2229.1	2220.8	2201.8	2197.8	2186.8
27.5°	2151.5	2144.8	2120.3	2113.2	2094.2
30°	2064.5	2055.0	2029.0	2007.2	1991.0
32.5°	1968.0	1961.0	1925.7	1897.2	1873.9
35°	1872.7	1856.5	1818.2	1777.4	1758.4
37.5°	1761.2	1748.9	1701.4	1650.9	1625.1
40°	1649.7	1634.6	1578.9	1523.1	1495.8
42.5°	1528.6	1514.8	1461.8	1395.3	1366.9
45°	1419.9	1398.1	1334.1	1262.1	1234.8
47.5°	1300.1	1277.1	1209.1	1132.8	1101.5
50°	1173.5	1158.8	1088.0	1014.5	991.5
52.5°	1060.8	1037.8	971.0	899.0	874.5
55°	953.2	931.5	861.0	793.0	771.2
57.5°	846.0	821.5	760.2	698.9	677.1
60°	745.2	720.7	660.9	610.7	597.2
62.5°	654.2	626.9	573.9	534.4	524.9
65°	561.6	543.9	497.6	469.1	463.9
67.5°	484.1	462.4	425.6	412.1	409.4
70°	413.3	398.3	367.1	363.1	363.1
72.5°	349.6	337.3	314.1	316.8	320.8
75°	292.3	284.3	270.6	276.1	284.3
77.5°	243.3	235.3	227.0	235.3	240.8
80°	197.3	189.0	187.8	194.6	198.5
82.5°	148.3	141.6	142.8	153.8	157.8
85°	103.3	99.3	96.5	108.8	110.3
87.5°	53.0	50.2	49.0	58.5	55.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)