

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: P798164

Luminaire Tested: 14GRSCT3-F125-UNV-HIGH-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798164
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-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

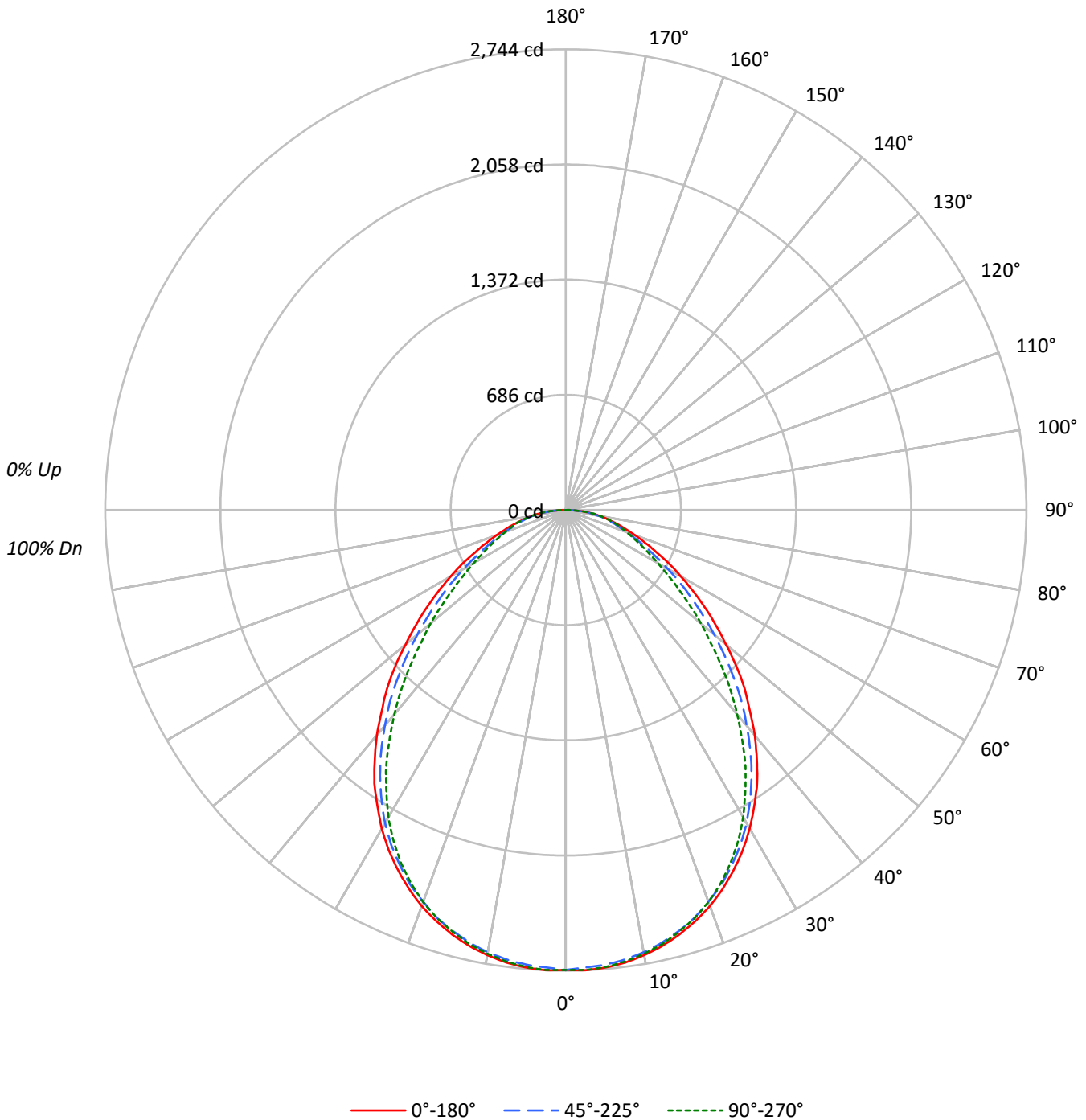
Lumens per Lamp: N/A
Luminaire Lumens: 6150.0 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 52.9
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				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°	7372	7372	7372
5°	7389	7343	7381
10°	7356	7309	7332
15°	7291	7235	7247
20°	7189	7110	7115
25°	7025	6939	6892
30°	6809	6692	6567
35°	6530	6340	6132
40°	6151	5887	5578
45°	5735	5389	4988
50°	5215	4835	4406
55°	4747	4288	3841
60°	4257	3775	3412
65°	3796	3363	3135
70°	3452	3065	3032
75°	3226	2986	3138
80°	3245	3090	3265
85°	3384	3162	3616

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5735 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.1	4.2
10°-20°	734.4	11.9
20°-30°	1076.8	17.5
30°-40°	1201.9	19.5
40°-50°	1088.1	17.7
50°-60°	821.6	13.4
60°-70°	537.0	8.7
70°-80°	315.4	5.1
80°-90°	115.5	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°	2070.4	33.7
0°-40°	3272.2	53.2
0°-60°	5182.0	84.3
0°-90°	6150.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6150.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2740	2740	2740	2740	2740	
5°	2736	2730	2718	2734	2732	260
15°	2617	2613	2597	2611	2601	737
25°	2366	2357	2337	2333	2321	1088
35°	1988	1970	1930	1887	1866	1238
45°	1507	1484	1416	1340	1311	1158
55°	1012	989	914	842	819	905
65°	596	577	528	498	492	598
75°	310	302	287	293	302	333
85°	110	105	102	116	117	116
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2739.7	2739.7	2739.7	2739.7	2739.7
2.5°	2744.3	2739.7	2726.7	2744.3	2742.6
5°	2735.5	2729.6	2718.2	2734.2	2732.5
7.5°	2718.2	2712.4	2700.7	2715.3	2712.4
10°	2692.2	2686.4	2675.0	2690.6	2683.4
12.5°	2659.0	2653.2	2640.2	2654.5	2649.0
15°	2617.1	2612.9	2596.9	2611.2	2601.2
17.5°	2566.7	2559.2	2547.8	2556.6	2549.1
20°	2510.4	2501.6	2482.8	2491.6	2484.4
22.5°	2442.4	2430.7	2417.7	2417.7	2407.6
25°	2366.0	2357.2	2337.1	2332.8	2321.1
27.5°	2283.7	2276.6	2250.6	2243.1	2222.9
30°	2191.4	2181.3	2153.6	2130.6	2113.3
32.5°	2088.9	2081.4	2044.0	2013.8	1989.1
35°	1987.8	1970.5	1929.9	1886.6	1866.5
37.5°	1869.4	1856.4	1806.0	1752.3	1725.0
40°	1751.0	1735.1	1675.9	1616.7	1587.8
42.5°	1622.6	1607.9	1551.7	1481.1	1450.8
45°	1507.1	1484.0	1416.0	1339.6	1310.7
47.5°	1379.9	1355.5	1283.3	1202.4	1169.2
50°	1245.6	1230.0	1154.9	1076.8	1052.4
52.5°	1125.9	1101.5	1030.6	954.2	928.2
55°	1011.8	988.7	913.9	841.7	818.6
57.5°	897.9	871.9	806.9	741.8	718.7
60°	790.9	764.9	701.5	648.2	633.9
62.5°	694.4	665.4	609.1	567.2	557.1
65°	596.1	577.3	528.2	497.9	492.4
67.5°	513.9	490.8	451.7	437.4	434.5
70°	438.7	422.8	389.6	385.4	385.4
72.5°	371.1	358.1	333.4	336.3	340.5
75°	310.3	301.8	287.2	293.0	301.8
77.5°	258.2	249.8	241.0	249.8	255.6
80°	209.4	200.7	199.4	206.5	210.7
82.5°	157.4	150.3	151.6	163.3	167.5
85°	109.6	105.4	102.4	115.5	117.1
87.5°	56.3	53.3	52.0	62.1	59.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)