

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: P798163

Luminaire Tested: 14GRSCT3-F125-UNV-HIGH-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798163
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-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

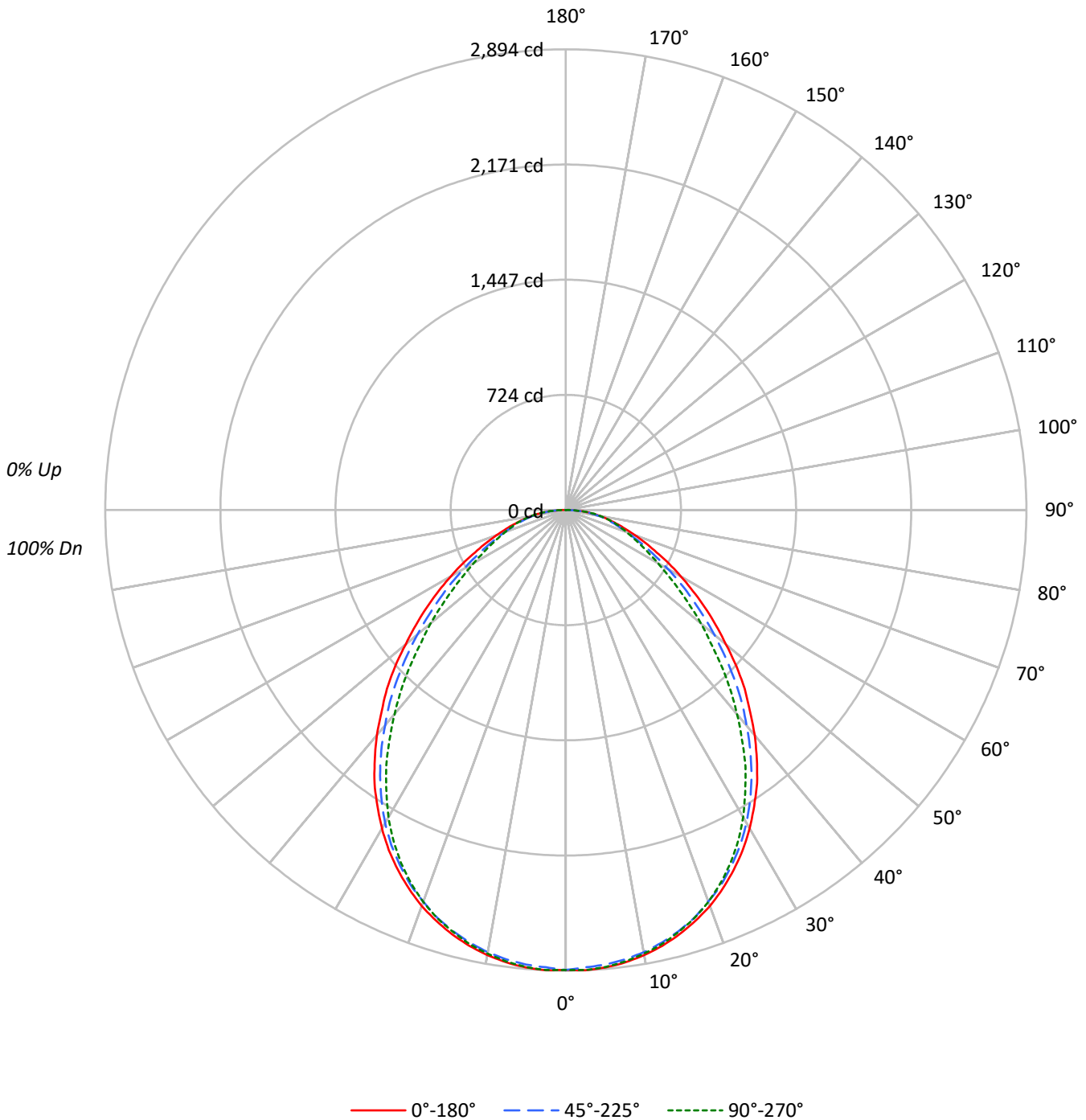
Lumens per Lamp: N/A
Luminaire Lumens: 6485.0 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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	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°	7774	7774	7774
5°	7792	7743	7783
10°	7757	7708	7732
15°	7688	7629	7641
20°	7581	7497	7502
25°	7408	7317	7267
30°	7180	7057	6924
35°	6886	6685	6465
40°	6486	6208	5881
45°	6048	5683	5260
50°	5499	5098	4646
55°	5005	4521	4050
60°	4489	3981	3597
65°	4003	3546	3306
70°	3640	3232	3198
75°	3402	3148	3308
80°	3423	3257	3443
85°	3569	3335	3813

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6048 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.2	4.2
10°-20°	774.4	11.9
20°-30°	1135.5	17.5
30°-40°	1267.4	19.5
40°-50°	1147.4	17.7
50°-60°	866.4	13.4
60°-70°	566.3	8.7
70°-80°	332.6	5.1
80°-90°	121.8	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°	2183.1	33.7
0°-40°	3450.5	53.2
0°-60°	5464.3	84.3
0°-90°	6485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6485.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2889	2889	2889	2889	2889	
5°	2884	2878	2866	2883	2881	274
15°	2760	2755	2738	2754	2743	778
25°	2495	2486	2464	2460	2448	1148
35°	2096	2078	2035	1989	1968	1305
45°	1589	1565	1493	1413	1382	1221
55°	1067	1042	964	888	863	955
65°	629	609	557	525	519	631
75°	327	318	303	309	318	351
85°	116	111	108	122	124	123
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2888.9	2888.9	2888.9	2888.9	2888.9
2.5°	2893.7	2888.9	2875.2	2893.7	2892.0
5°	2884.5	2878.3	2866.3	2883.1	2881.4
7.5°	2866.3	2860.1	2847.8	2863.2	2860.1
10°	2838.9	2832.7	2820.7	2837.2	2829.6
12.5°	2803.9	2797.7	2784.0	2799.1	2793.3
15°	2759.7	2755.2	2738.4	2753.5	2742.8
17.5°	2706.5	2698.6	2686.6	2695.9	2688.0
20°	2647.2	2637.9	2618.0	2627.3	2619.7
22.5°	2575.5	2563.1	2549.4	2549.4	2538.8
25°	2494.9	2485.6	2464.4	2459.9	2447.6
27.5°	2408.1	2400.6	2373.2	2365.3	2344.0
30°	2310.7	2300.1	2271.0	2246.6	2228.4
32.5°	2202.7	2194.8	2155.4	2123.5	2097.4
35°	2096.1	2077.9	2035.0	1989.4	1968.1
37.5°	1971.2	1957.5	1904.4	1847.8	1819.0
40°	1846.4	1829.6	1767.2	1704.8	1674.2
42.5°	1710.9	1695.5	1636.2	1561.8	1529.9
45°	1589.2	1564.8	1493.2	1412.6	1382.1
47.5°	1455.1	1429.4	1353.2	1267.9	1232.9
50°	1313.5	1297.0	1217.8	1135.5	1109.8
52.5°	1187.3	1161.5	1086.8	1006.2	978.8
55°	1066.9	1042.5	963.7	887.5	863.2
57.5°	946.9	919.4	850.8	782.2	757.9
60°	834.0	806.6	739.7	683.5	668.4
62.5°	732.2	701.7	642.3	598.1	587.5
65°	628.6	608.7	556.9	525.0	519.2
67.5°	541.8	517.5	476.3	461.3	458.2
70°	462.6	445.8	410.8	406.4	406.4
72.5°	391.3	377.6	351.5	354.6	359.1
75°	327.2	318.2	302.8	309.0	318.2
77.5°	272.3	263.4	254.1	263.4	269.6
80°	220.9	211.6	210.2	217.8	222.2
82.5°	166.0	158.4	159.8	172.2	176.6
85°	115.6	111.1	108.0	121.7	123.5
87.5°	59.3	56.2	54.9	65.5	62.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)