

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: P798271

Luminaire Tested: 24GRSCT3-F125-UNV-HIGH-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P293206)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24GRSCT3-F125-UNV-HIGH-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

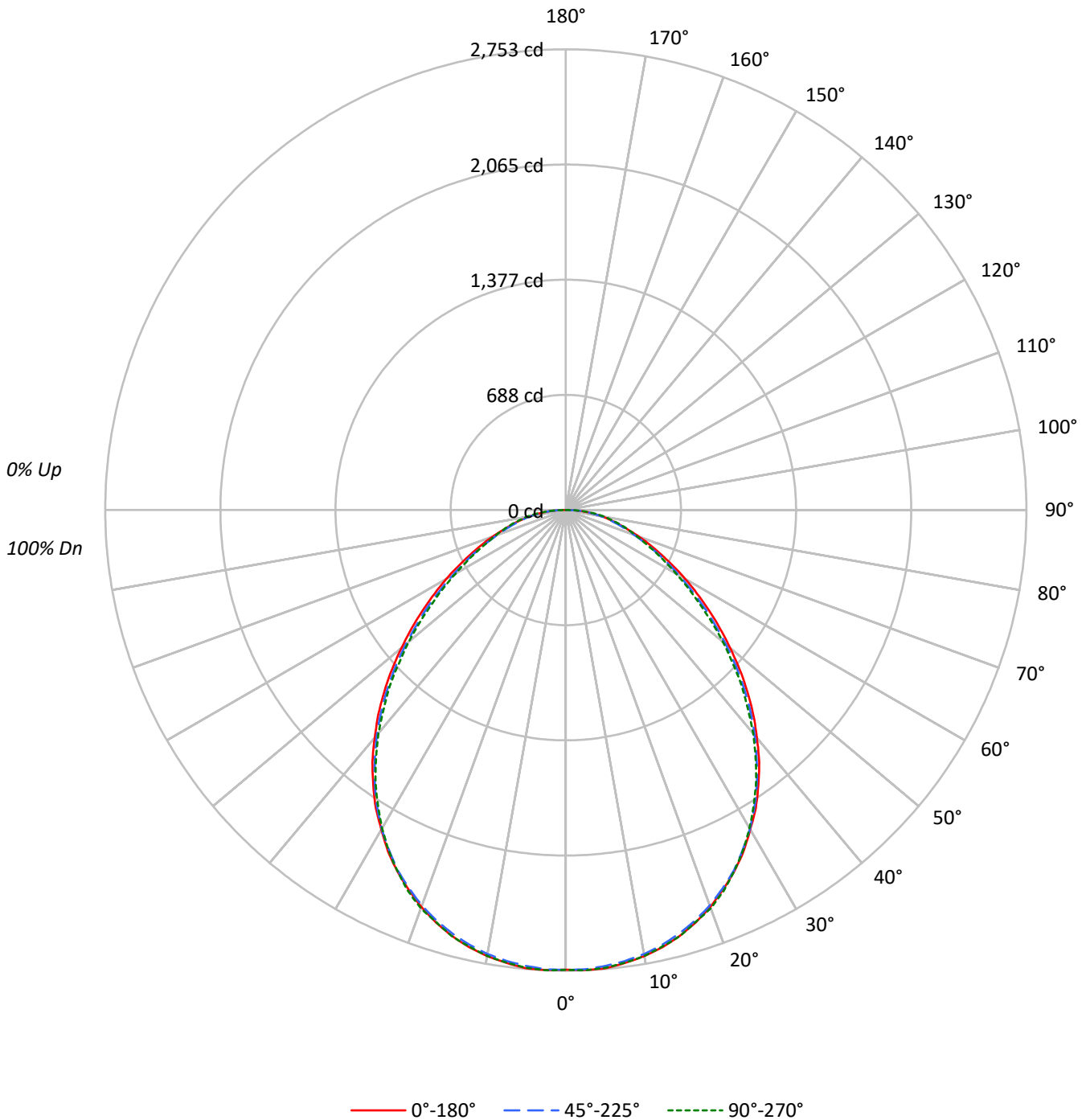
Lumens per Lamp: N/A
Luminaire Lumens: 6463.8 lumens
Efficiency: N/A
Efficacy: 148.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.5
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	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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	87	87	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	74	74	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	64	64	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	56	56	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	49	49	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	44	44	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	39	39	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	35	35	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	32	32	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	29	29	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3696	3696	3696
5°	3713	3692	3708
10°	3698	3680	3697
15°	3669	3649	3672
20°	3615	3601	3627
25°	3537	3528	3535
30°	3425	3419	3411
35°	3296	3271	3258
40°	3120	3084	3059
45°	2919	2864	2830
50°	2682	2610	2565
55°	2446	2356	2287
60°	2221	2101	2047
65°	2001	1888	1856
70°	1832	1713	1761
75°	1712	1634	1754
80°	1699	1667	1832
85°	1731	1748	1998

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2919 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.0	4.0
10°-20°	739.1	11.4
20°-30°	1092.0	16.9
30°-40°	1241.4	19.2
40°-50°	1159.3	17.9
50°-60°	901.6	13.9
60°-70°	598.2	9.3
70°-80°	346.2	5.4
80°-90°	125.9	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°	2091.1	32.4
0°-40°	3332.5	51.6
0°-60°	5393.4	83.4
0°-90°	6463.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6463.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2747	2747	2747	2747	2747	
5°	2749	2735	2734	2739	2745	261
15°	2634	2621	2620	2619	2636	742
25°	2382	2372	2376	2371	2381	1095
35°	2007	1996	1991	1977	1983	1253
45°	1534	1522	1505	1486	1487	1182
55°	1043	1028	1004	978	975	935
65°	628	609	593	582	583	628
75°	329	321	314	328	337	352
85°	112	110	113	128	129	122
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2747.0	2747.0	2747.0	2747.0	2747.0
2.5°	2751.2	2743.1	2747.0	2744.0	2753.0
5°	2749.1	2735.0	2733.9	2739.0	2745.2
7.5°	2729.9	2714.7	2717.7	2717.7	2727.9
10°	2706.6	2691.6	2693.7	2694.6	2705.7
12.5°	2675.4	2660.1	2661.3	2660.1	2671.2
15°	2634.0	2620.9	2619.7	2618.8	2635.9
17.5°	2583.4	2565.2	2571.4	2572.3	2581.3
20°	2524.7	2510.6	2514.8	2513.6	2532.8
22.5°	2455.2	2445.0	2448.0	2445.9	2464.2
25°	2382.4	2372.2	2376.4	2371.3	2381.4
27.5°	2300.6	2293.4	2289.5	2286.5	2293.4
30°	2204.7	2200.5	2200.5	2187.3	2195.4
32.5°	2113.6	2100.4	2100.4	2095.3	2090.3
35°	2006.6	1996.4	1991.4	1977.3	1983.3
37.5°	1899.4	1876.3	1874.2	1863.1	1863.1
40°	1776.2	1763.0	1755.9	1743.9	1741.8
42.5°	1659.0	1645.9	1633.6	1613.5	1609.4
45°	1533.8	1521.5	1505.4	1486.2	1487.1
47.5°	1409.5	1392.4	1377.1	1353.8	1350.8
50°	1281.2	1268.9	1246.8	1226.7	1225.5
52.5°	1160.8	1141.6	1121.5	1097.2	1097.2
55°	1042.7	1027.5	1004.3	978.0	975.0
57.5°	929.5	915.4	889.0	869.8	864.8
60°	825.5	805.1	780.9	764.9	760.8
62.5°	721.5	703.2	685.0	668.8	667.9
65°	628.4	609.2	593.0	581.9	583.1
67.5°	544.5	528.5	510.3	507.3	508.2
70°	465.7	448.6	435.4	442.5	447.6
72.5°	391.0	382.0	372.8	382.9	390.1
75°	329.3	321.2	314.3	328.4	337.4
77.5°	272.7	266.7	265.8	277.8	285.9
80°	219.3	212.1	215.2	229.2	236.4
82.5°	166.6	161.8	162.7	179.8	184.9
85°	112.1	110.2	113.2	128.3	129.4
87.5°	59.6	59.6	61.7	70.7	67.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)