

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: P798270

Luminaire Tested: 24GRSCT3-F125-UNV-HIGH-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798270
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-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

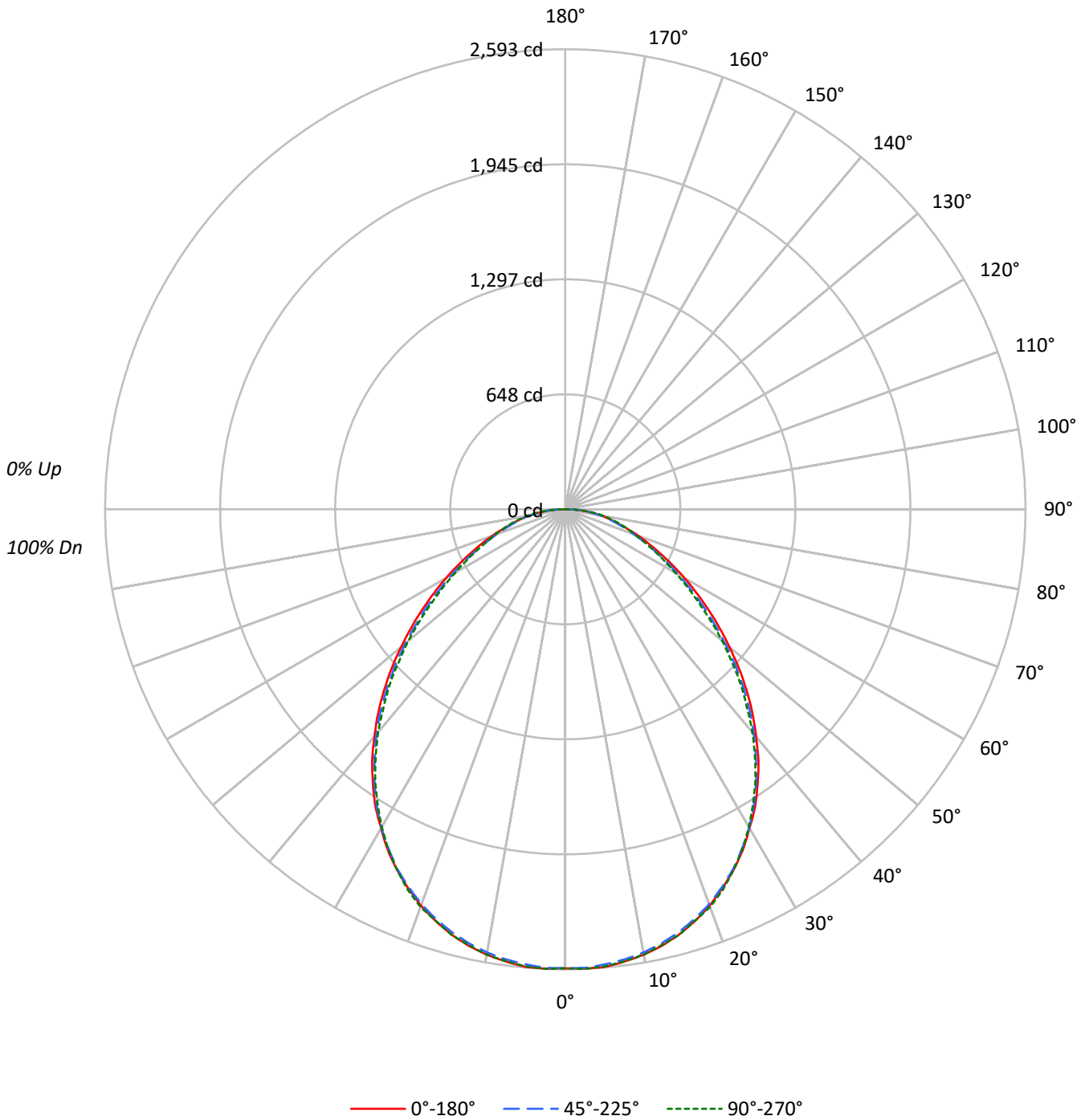
Lumens per Lamp: N/A
Luminaire Lumens: 6087.2 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 45.5
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				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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85	85	85	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72	72	72	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62	62	62	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54	54	54	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47	47	47	47
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42	42	42	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37	37	37	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33	33	33	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30	30	30	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28	28	28	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3481	3481	3481
5°	3497	3477	3492
10°	3482	3466	3481
15°	3455	3437	3458
20°	3404	3391	3415
25°	3331	3322	3329
30°	3226	3220	3212
35°	3104	3080	3068
40°	2938	2904	2881
45°	2748	2698	2665
50°	2526	2458	2416
55°	2304	2219	2154
60°	2092	1979	1928
65°	1884	1778	1748
70°	1725	1613	1659
75°	1612	1539	1652
80°	1600	1570	1725
85°	1630	1646	1882

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2748 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.8	4.0
10°-20°	696.1	11.4
20°-30°	1028.3	16.9
30°-40°	1169.1	19.2
40°-50°	1091.8	17.9
50°-60°	849.0	13.9
60°-70°	563.4	9.3
70°-80°	326.0	5.4
80°-90°	118.6	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°	1969.3	32.4
0°-40°	3138.4	51.6
0°-60°	5079.2	83.4
0°-90°	6087.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6087.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2587	2587	2587	2587	2587	
5°	2589	2576	2575	2579	2585	246
15°	2481	2468	2467	2466	2482	699
25°	2244	2234	2238	2233	2243	1032
35°	1890	1880	1875	1862	1868	1180
45°	1444	1433	1418	1400	1400	1113
55°	982	968	946	921	918	881
65°	592	574	558	548	549	591
75°	310	302	296	309	318	332
85°	106	104	107	121	122	115
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2587.0	2587.0	2587.0	2587.0	2587.0
2.5°	2590.9	2583.3	2587.0	2584.2	2592.7
5°	2589.0	2575.7	2574.6	2579.4	2585.3
7.5°	2570.9	2556.5	2559.4	2559.4	2568.9
10°	2548.9	2534.8	2536.7	2537.6	2548.1
12.5°	2519.5	2505.2	2506.3	2505.2	2515.6
15°	2480.6	2468.2	2467.1	2466.2	2482.3
17.5°	2432.9	2415.7	2421.6	2422.5	2431.0
20°	2377.6	2364.4	2368.3	2367.2	2385.3
22.5°	2312.1	2302.6	2305.4	2303.4	2320.6
25°	2243.6	2234.0	2237.9	2233.1	2242.7
27.5°	2166.5	2159.8	2156.1	2153.3	2159.8
30°	2076.2	2072.3	2072.3	2059.9	2067.5
32.5°	1990.5	1978.1	1978.1	1973.3	1968.5
35°	1889.7	1880.1	1875.3	1862.1	1867.7
37.5°	1788.7	1767.0	1765.0	1754.6	1754.6
40°	1672.7	1660.3	1653.6	1642.3	1640.3
42.5°	1562.4	1550.0	1538.4	1519.5	1515.6
45°	1444.4	1432.9	1417.7	1399.6	1400.5
47.5°	1327.3	1311.2	1296.9	1274.9	1272.1
50°	1206.6	1195.0	1174.1	1155.2	1154.1
52.5°	1093.2	1075.1	1056.2	1033.3	1033.3
55°	982.0	967.6	945.8	921.0	918.2
57.5°	875.3	862.0	837.2	819.2	814.4
60°	777.4	758.2	735.4	720.4	716.4
62.5°	679.5	662.3	645.1	629.8	629.0
65°	591.7	573.7	558.4	548.0	549.1
67.5°	512.7	497.7	480.5	477.7	478.6
70°	438.5	422.4	410.0	416.8	421.6
72.5°	368.2	359.7	351.0	360.6	367.4
75°	310.1	302.5	296.0	309.3	317.7
77.5°	256.8	251.1	250.3	261.6	269.2
80°	206.5	199.8	202.6	215.9	222.6
82.5°	156.9	152.3	153.2	169.3	174.1
85°	105.6	103.8	106.6	120.8	121.9
87.5°	56.1	56.1	58.1	66.6	63.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)