

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: P798272

Luminaire Tested: 24GRSCT3-F125-UNV-HIGH-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798272
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-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

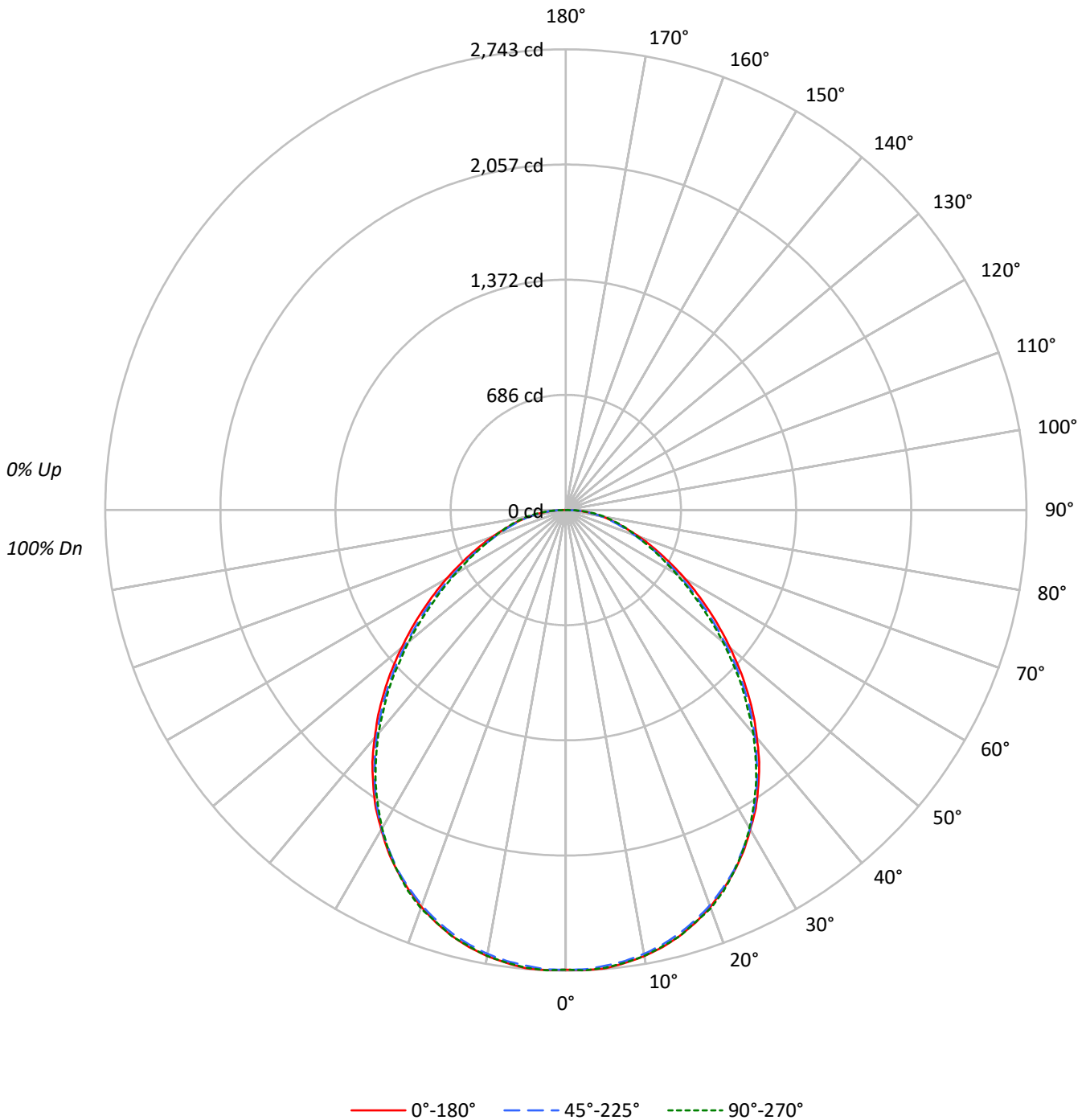
Lumens per Lamp: N/A
Luminaire Lumens: 6440.0 lumens
Efficiency: N/A
Efficacy: 142.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 45.2
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	72	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°	3683	3683	3683
5°	3699	3679	3694
10°	3684	3667	3683
15°	3656	3636	3658
20°	3602	3588	3613
25°	3524	3515	3522
30°	3413	3406	3398
35°	3284	3259	3246
40°	3108	3073	3048
45°	2908	2854	2819
50°	2672	2600	2556
55°	2437	2347	2279
60°	2213	2094	2040
65°	1993	1881	1849
70°	1825	1707	1755
75°	1706	1628	1748
80°	1693	1661	1825
85°	1724	1741	1990

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2908 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.0	4.0
10°-20°	736.4	11.4
20°-30°	1087.9	16.9
30°-40°	1236.9	19.2
40°-50°	1155.1	17.9
50°-60°	898.3	13.9
60°-70°	596.0	9.3
70°-80°	344.9	5.4
80°-90°	125.4	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°	2083.4	32.4
0°-40°	3320.3	51.6
0°-60°	5373.6	83.4
0°-90°	6440.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6440.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2737	2737	2737	2737	2737	
5°	2739	2725	2724	2729	2735	260
15°	2624	2611	2610	2609	2626	739
25°	2374	2364	2368	2363	2373	1091
35°	1999	1989	1984	1970	1976	1248
45°	1528	1516	1500	1481	1482	1177
55°	1039	1024	1001	974	971	932
65°	626	607	591	580	581	626
75°	328	320	313	327	336	351
85°	112	110	113	128	129	121
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2737.0	2737.0	2737.0	2737.0	2737.0
2.5°	2741.1	2733.0	2737.0	2734.0	2742.9
5°	2739.0	2725.0	2723.8	2728.9	2735.1
7.5°	2719.9	2704.7	2707.7	2707.7	2717.8
10°	2696.7	2681.7	2683.8	2684.7	2695.7
12.5°	2665.6	2650.4	2651.5	2650.4	2661.4
15°	2624.4	2611.2	2610.1	2609.2	2626.2
17.5°	2573.9	2555.8	2562.0	2562.9	2571.9
20°	2515.5	2501.4	2505.6	2504.4	2523.5
22.5°	2446.2	2436.0	2439.0	2436.9	2455.1
25°	2373.6	2363.5	2367.6	2362.6	2372.7
27.5°	2292.1	2285.0	2281.1	2278.1	2285.0
30°	2196.6	2192.4	2192.4	2179.3	2187.4
32.5°	2105.8	2092.7	2092.7	2087.7	2082.6
35°	1999.2	1989.1	1984.0	1970.0	1976.0
37.5°	1892.4	1869.4	1867.3	1856.3	1856.3
40°	1769.7	1756.6	1749.4	1737.5	1735.4
42.5°	1653.0	1639.8	1627.6	1607.6	1603.4
45°	1528.2	1516.0	1499.8	1480.7	1481.6
47.5°	1404.3	1387.2	1372.0	1348.8	1345.8
50°	1276.5	1264.3	1242.2	1222.2	1221.0
52.5°	1156.5	1137.4	1117.4	1093.2	1093.2
55°	1038.9	1023.7	1000.7	974.4	971.4
57.5°	926.1	912.0	885.8	866.7	861.6
60°	822.4	802.2	778.0	762.1	758.0
62.5°	718.8	700.6	682.5	666.3	665.4
65°	626.0	606.9	590.8	579.8	580.9
67.5°	542.5	526.6	508.4	505.4	506.3
70°	464.0	446.9	433.8	440.9	446.0
72.5°	389.6	380.6	371.4	381.5	388.7
75°	328.1	320.0	313.1	327.2	336.2
77.5°	271.7	265.7	264.8	276.8	284.8
80°	218.5	211.4	214.4	228.4	235.5
82.5°	166.0	161.2	162.1	179.1	184.2
85°	111.7	109.8	112.8	127.8	128.9
87.5°	59.4	59.4	61.5	70.5	67.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)