

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: P798263

Luminaire Tested: 24GRSCT3-F1-UNV-HIGH-4000K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798263  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P292954)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 24GRSCT3-F1-UNV-HIGH-4000K  
Description: GRLED Selectable  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

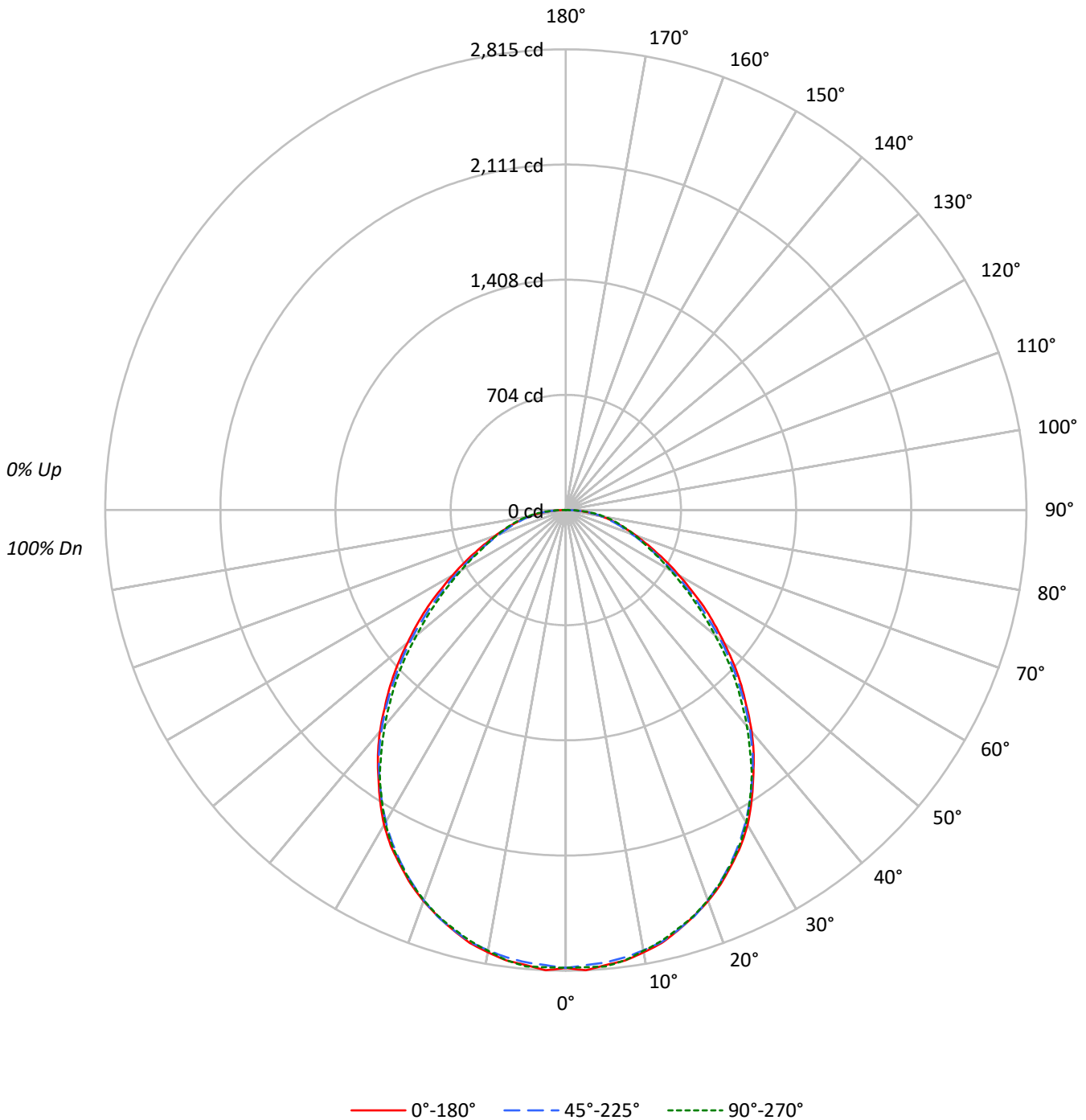
Lumens per Lamp: N/A  
Luminaire Lumens: 6440.0 lumens  
Efficiency: N/A  
Efficacy: 142.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85				85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62				62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54				54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47				47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37				37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34				34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31				31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28				28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3764	3764	3764
5°	3769	3748	3780
10°	3749	3733	3737
15°	3702	3699	3689
20°	3640	3633	3633
25°	3555	3536	3544
30°	3453	3417	3428
35°	3279	3264	3255
40°	3106	3077	3024
45°	2886	2836	2780
50°	2644	2586	2488
55°	2415	2306	2228
60°	2152	2048	1995
65°	1937	1835	1810
70°	1798	1688	1755
75°	1719	1643	1781
80°	1718	1718	1904
85°	1785	1806	2008

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2886 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.2	4.1
10°-20°	747.6	11.6
20°-30°	1097.3	17.0
30°-40°	1240.5	19.3
40°-50°	1146.5	17.8
50°-60°	883.3	13.7
60°-70°	584.9	9.1
70°-80°	348.2	5.4
80°-90°	127.6	2.0
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°	2109.1	32.7
0°-40°	3349.6	52.0
0°-60°	5379.4	83.5
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°	2798	2798	2798	2798	2798	
5°	2791	2791	2775	2776	2799	265
15°	2658	2653	2655	2654	2648	749
25°	2395	2388	2382	2379	2387	1103
35°	1996	1994	1987	1978	1982	1249
45°	1517	1506	1490	1464	1461	1168
55°	1029	1008	983	956	950	918
65°	608	599	576	571	568	610
75°	331	323	316	331	343	353
85°	116	109	117	129	130	123
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2797.5	2797.5	2797.5	2797.5	2797.5
2.5°	2814.8	2800.0	2784.2	2784.2	2796.1
5°	2790.8	2790.8	2774.7	2776.1	2798.7
7.5°	2776.1	2768.3	2757.5	2757.5	2774.7
10°	2744.3	2737.7	2732.4	2729.6	2734.9
12.5°	2709.8	2699.2	2703.1	2699.2	2697.8
15°	2658.0	2652.7	2655.2	2653.8	2648.5
17.5°	2602.0	2599.5	2604.8	2595.6	2599.5
20°	2542.4	2534.3	2537.1	2531.8	2537.1
22.5°	2474.7	2469.4	2462.7	2456.1	2466.6
25°	2394.8	2388.4	2381.7	2378.9	2387.0
27.5°	2315.1	2304.6	2295.3	2292.6	2304.6
30°	2222.4	2210.4	2199.6	2197.0	2206.2
32.5°	2112.1	2109.3	2095.9	2090.7	2094.8
35°	1996.5	1993.7	1987.0	1977.8	1981.7
37.5°	1886.2	1884.8	1875.6	1859.7	1848.9
40°	1768.1	1758.6	1752.0	1729.4	1721.6
42.5°	1637.8	1635.2	1623.2	1597.9	1588.7
45°	1516.9	1506.3	1490.4	1463.7	1461.2
47.5°	1392.1	1377.3	1362.8	1329.7	1328.3
50°	1263.1	1252.5	1235.3	1202.1	1188.8
52.5°	1143.6	1129.1	1105.2	1073.2	1066.7
55°	1029.4	1008.3	982.9	956.5	949.8
57.5°	907.2	898.0	867.3	846.2	838.1
60°	799.7	791.6	761.2	741.2	741.2
62.5°	702.7	690.7	664.0	650.9	650.9
65°	608.3	599.1	576.5	571.2	568.5
67.5°	527.3	515.3	499.4	498.0	504.7
70°	457.0	442.3	429.0	442.3	446.2
72.5°	390.5	381.3	369.3	386.6	394.4
75°	330.6	322.8	316.1	330.6	342.6
77.5°	276.3	268.2	268.2	284.4	294.9
80°	221.7	216.4	221.7	235.1	245.7
82.5°	169.9	166.0	172.7	186.0	192.7
85°	115.6	108.9	117.0	128.9	130.1
87.5°	54.6	53.2	58.5	66.3	65.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)