

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: P798262

Luminaire Tested: 24GRSCT3-F1-UNV-HIGH-3500K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798262  
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-3500K  
Description: GRLED Selectable  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

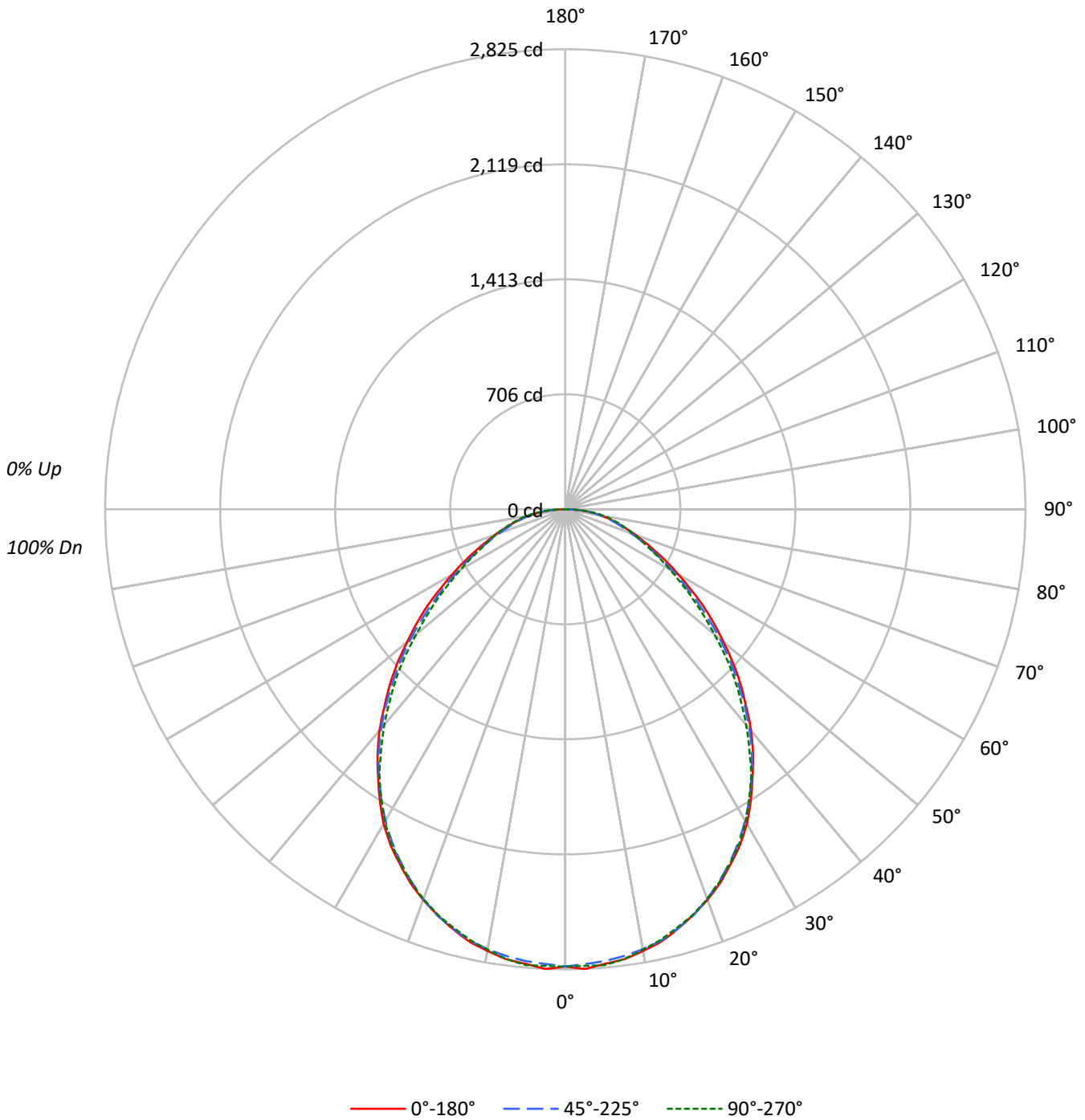
Lumens per Lamp: N/A  
Luminaire Lumens: 6463.7 lumens  
Efficiency: N/A  
Efficacy: 148.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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



TEST NUMBER: P798262  
CATALOG NUMBER: 24GRSCT3-F1-UNV-HIGH-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P798262

CATALOG NUMBER: 24GRSCT3-F1-UNV-HIGH-3500K

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

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

	0°	45°	90°
0°	3778	3778	3778
5°	3783	3761	3794
10°	3763	3747	3750
15°	3716	3712	3703
20°	3654	3646	3646
25°	3568	3549	3557
30°	3465	3430	3440
35°	3291	3276	3267
40°	3117	3088	3035
45°	2897	2846	2790
50°	2654	2595	2497
55°	2424	2314	2236
60°	2160	2056	2002
65°	1944	1842	1817
70°	1805	1694	1762
75°	1725	1650	1788
80°	1724	1724	1911
85°	1791	1812	2016

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2897 cd/sqm



TEST NUMBER: P798262  
 CATALOG NUMBER: 24GRSCT3-F1-UNV-HIGH-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.2	4.1
10°-20°	750.4	11.6
20°-30°	1101.3	17.0
30°-40°	1245.1	19.3
40°-50°	1150.7	17.8
50°-60°	886.6	13.7
60°-70°	587.1	9.1
70°-80°	349.5	5.4
80°-90°	128.0	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°	2116.8	32.7
0°-40°	3361.9	52.0
0°-60°	5399.2	83.5
0°-90°	6463.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6463.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2808	2808	2808	2808	2808	
5°	2801	2801	2785	2786	2809	266
15°	2668	2662	2665	2664	2658	752
25°	2404	2397	2390	2388	2396	1107
35°	2004	2001	1994	1985	1989	1254
45°	1522	1512	1496	1469	1466	1173
55°	1033	1012	986	960	953	922
65°	611	601	579	573	571	612
75°	332	324	317	332	344	354
85°	116	109	117	129	131	123
90°	0	0	0	0	0	



TEST NUMBER: P798262

CATALOG NUMBER: 24GRSCT3-F1-UNV-HIGH-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2807.8	2807.8	2807.8	2807.8	2807.8
2.5°	2825.2	2810.4	2794.4	2794.4	2806.4
5°	2801.1	2801.1	2784.9	2786.3	2809.0
7.5°	2786.3	2778.5	2767.6	2767.6	2784.9
10°	2754.4	2747.7	2742.4	2739.6	2745.0
12.5°	2719.8	2709.1	2713.1	2709.1	2707.8
15°	2667.8	2662.5	2665.0	2663.6	2658.3
17.5°	2611.6	2609.1	2614.4	2605.1	2609.1
20°	2551.8	2543.7	2546.4	2541.1	2546.4
22.5°	2483.8	2478.5	2471.8	2465.1	2475.7
25°	2403.6	2397.2	2390.5	2387.7	2395.8
27.5°	2323.7	2313.0	2303.8	2301.0	2313.0
30°	2230.5	2218.5	2207.7	2205.1	2214.4
32.5°	2119.8	2117.1	2103.7	2098.4	2102.5
35°	2003.8	2001.1	1994.4	1985.1	1989.0
37.5°	1893.1	1891.8	1882.5	1866.6	1855.7
40°	1774.6	1765.1	1758.4	1735.8	1727.9
42.5°	1643.8	1641.2	1629.2	1603.8	1594.6
45°	1522.5	1511.8	1495.9	1469.1	1466.5
47.5°	1397.2	1382.4	1367.9	1334.6	1333.2
50°	1267.8	1257.2	1239.8	1206.6	1193.1
52.5°	1147.9	1133.3	1109.3	1077.1	1070.7
55°	1033.2	1012.0	986.5	960.0	953.3
57.5°	910.5	901.3	870.5	849.3	841.2
60°	802.6	794.5	764.0	743.9	743.9
62.5°	705.3	693.3	666.5	653.3	653.3
65°	610.6	601.3	578.7	573.3	570.6
67.5°	529.2	517.2	501.2	499.9	506.6
70°	458.7	443.9	430.5	443.9	447.9
72.5°	391.9	382.7	370.7	388.0	395.9
75°	331.9	324.0	317.3	331.9	343.9
77.5°	277.3	269.2	269.2	285.4	296.0
80°	222.5	217.2	222.5	235.9	246.6
82.5°	170.5	166.6	173.3	186.7	193.4
85°	116.0	109.3	117.4	129.4	130.6
87.5°	54.8	53.4	58.7	66.6	65.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)