

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: P798244

Luminaire Tested: 24GRSCT3-A19 156-UNV-HIGH-3500K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798244  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P293962)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 24GRSCT3-A19 156-UNV-HIGH-3500K  
Description: GRLED Selectable  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

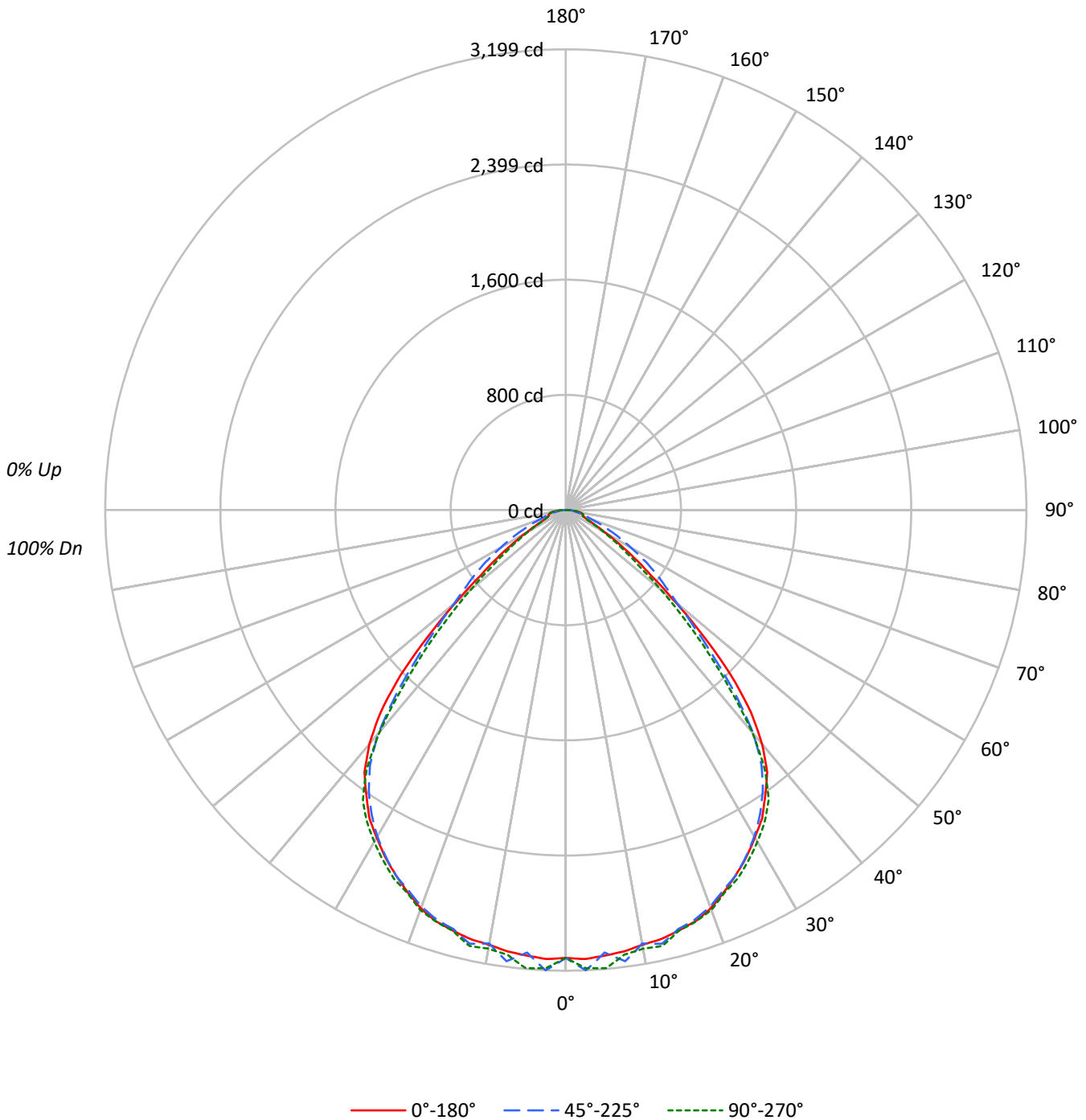
Lumens per Lamp: N/A  
Luminaire Lumens: 6290.4 lumens  
Efficiency: N/A  
Efficacy: 144.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.25  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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



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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	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	79	79	79	77
3	95	86	79	74	93	85	78	73	82	77	72	79	75	71	77	73	70	70	70	70	68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	62	62	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	55	55	55	53
6	76	65	57	51	75	64	56	51	62	55	50	60	55	50	59	54	50	50	50	50	48
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	45	45	45	43
8	67	55	47	42	65	54	47	41	53	46	41	51	45	41	50	45	41	41	41	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	37	37	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	34	34	34	33

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

	0°	45°	90°
0°	4185	4185	4185
5°	4194	4167	4314
10°	4188	4175	4226
15°	4212	4198	4214
20°	4215	4198	4232
25°	4150	4153	4193
30°	4081	4068	4134
35°	3966	3918	4035
40°	3724	3558	3538
45°	3087	2793	2649
50°	2077	2119	1810
55°	1370	1778	1187
60°	878	1403	813
65°	566	1071	550
70°	501	767	501
75°	646	609	651
80°	791	525	829
85°	920	781	966

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 3089 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	297.8	4.7
10°-20°	855.1	13.6
20°-30°	1287.4	20.5
30°-40°	1492.2	23.7
40°-50°	1165.6	18.5
50°-60°	622.4	9.9
60°-70°	320.1	5.1
70°-80°	181.1	2.9
80°-90°	68.8	1.1
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°	2440.3	38.8
0°-40°	3932.5	62.5
0°-60°	5720.5	90.9
0°-90°	6290.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6290.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3110	3110	3110	3110	3110	
5°	3105	3192	3085	3170	3194	295
15°	3024	3043	3014	3033	3026	854
25°	2795	2786	2797	2793	2824	1288
35°	2414	2403	2385	2432	2457	1505
45°	1622	1623	1468	1455	1392	1223
55°	584	738	758	683	506	539
65°	178	371	336	370	173	195
75°	124	233	117	218	125	126
85°	60	78	51	78	63	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3110.5	3110.5	3110.5	3110.5	3110.5
2.5°	3120.4	3177.1	3199.3	3172.0	3184.2
5°	3105.4	3192.3	3085.1	3169.9	3194.2
7.5°	3091.1	3082.1	3160.0	3079.1	3113.5
10°	3065.0	3071.0	3055.7	3113.5	3093.2
12.5°	3052.7	3088.1	3085.1	3055.7	3100.3
15°	3023.6	3042.8	3013.5	3032.6	3025.5
17.5°	2994.3	2985.0	2982.0	2990.1	2997.3
20°	2943.7	2913.4	2931.6	2933.7	2955.9
22.5°	2870.9	2852.8	2856.8	2875.0	2877.1
25°	2795.3	2786.1	2797.1	2793.2	2824.4
27.5°	2716.5	2704.2	2711.4	2726.4	2745.6
30°	2626.6	2623.4	2618.5	2631.5	2660.8
32.5°	2537.6	2513.4	2509.4	2536.7	2570.0
35°	2414.5	2403.4	2385.1	2432.5	2456.7
37.5°	2297.3	2262.9	2233.5	2261.9	2271.9
40°	2120.5	2094.2	2025.5	2028.5	2014.4
42.5°	1903.3	1884.1	1752.6	1729.5	1690.0
45°	1622.3	1623.4	1467.9	1454.7	1392.1
47.5°	1296.0	1353.7	1218.3	1203.1	1110.2
50°	992.1	1096.1	1012.2	987.9	864.7
52.5°	744.6	897.1	870.8	818.3	648.4
55°	584.0	738.3	757.8	682.9	506.1
57.5°	439.5	608.2	639.4	577.7	391.0
60°	326.3	512.1	521.3	497.1	302.0
62.5°	242.4	435.4	423.4	426.4	224.2
65°	177.7	370.7	336.5	369.7	172.9
67.5°	145.4	321.2	261.6	320.3	140.5
70°	127.3	284.9	195.0	281.9	127.3
72.5°	123.2	261.6	154.6	250.5	124.3
75°	124.3	233.4	117.2	218.2	125.3
77.5°	114.2	192.0	89.0	185.8	119.2
80°	102.1	145.4	67.7	147.4	107.0
82.5°	86.9	106.1	54.5	109.1	89.9
85°	59.6	77.9	50.6	77.9	62.6
87.5°	28.2	46.4	31.4	44.4	32.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)