

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: P798245

Luminaire Tested: 24GRSCT3-A19 156-UNV-HIGH-4000K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798245  
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-4000K  
Description: GRLED Selectable  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

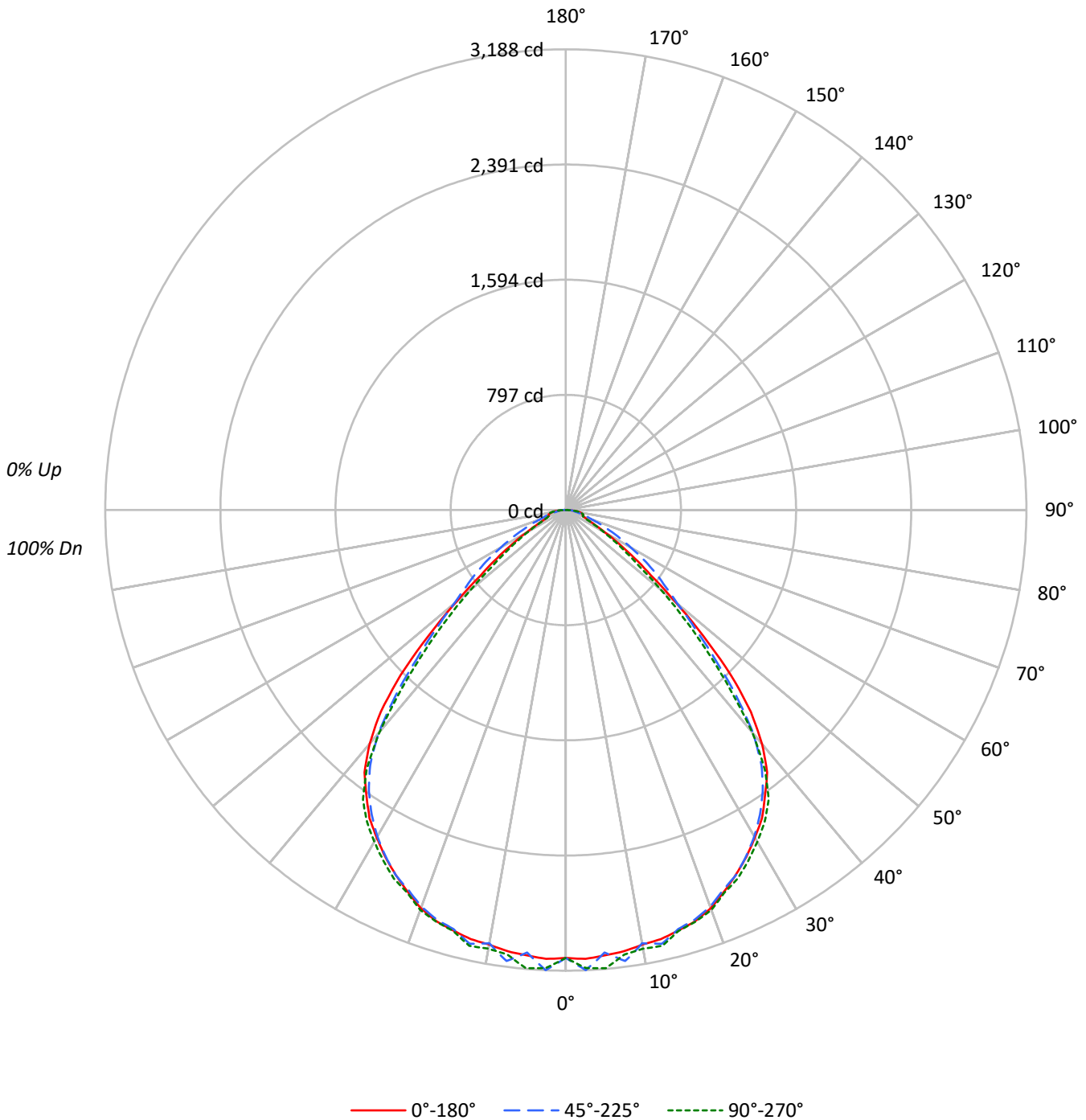
Lumens per Lamp: N/A  
Luminaire Lumens: 6267.3 lumens  
Efficiency: N/A  
Efficacy: 138.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.25  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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



TEST NUMBER: P798245  
CATALOG NUMBER: 24GRSCT3-A19 156-UNV-HIGH-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P798245

CATALOG NUMBER: 24GRSCT3-A19 156-UNV-HIGH-4000K

**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°	4170	4170	4170
5°	4179	4152	4298
10°	4172	4160	4210
15°	4196	4182	4199
20°	4199	4182	4217
25°	4135	4137	4178
30°	4066	4053	4119
35°	3951	3903	4020
40°	3711	3545	3525
45°	3076	2783	2639
50°	2069	2111	1804
55°	1365	1771	1183
60°	875	1398	810
65°	564	1067	548
70°	499	764	499
75°	644	607	649
80°	789	523	826
85°	917	778	963

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 3078 cd/sqm



TEST NUMBER: P798245  
 CATALOG NUMBER: 24GRSCT3-A19 156-UNV-HIGH-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.7	4.7
10°-20°	852.0	13.6
20°-30°	1282.6	20.5
30°-40°	1486.7	23.7
40°-50°	1161.4	18.5
50°-60°	620.1	9.9
60°-70°	318.9	5.1
70°-80°	180.4	2.9
80°-90°	68.5	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°	2431.3	38.8
0°-40°	3918.0	62.5
0°-60°	5699.5	90.9
0°-90°	6267.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6267.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3099	3099	3099	3099	3099	
5°	3094	3181	3074	3158	3182	294
15°	3012	3032	3002	3022	3014	851
25°	2785	2776	2787	2783	2814	1283
35°	2406	2394	2376	2424	2448	1500
45°	1616	1618	1462	1449	1387	1218
55°	582	736	755	680	504	537
65°	177	369	335	368	172	195
75°	124	232	117	217	125	125
85°	59	78	50	78	62	61
90°	0	0	0	0	0	



TEST NUMBER: P798245

CATALOG NUMBER: 24GRSCT3-A19 156-UNV-HIGH-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3099.1	3099.1	3099.1	3099.1	3099.1
2.5°	3109.0	3165.4	3187.5	3160.3	3172.5
5°	3094.0	3180.6	3073.8	3158.3	3182.4
7.5°	3079.8	3070.8	3148.4	3067.8	3102.1
10°	3053.7	3059.7	3044.5	3102.1	3081.8
12.5°	3041.5	3076.8	3073.8	3044.5	3089.0
15°	3012.5	3031.6	3002.4	3021.5	3014.4
17.5°	2983.3	2974.1	2971.1	2979.1	2986.3
20°	2932.9	2902.7	2920.9	2923.0	2945.1
22.5°	2860.3	2842.4	2846.3	2864.5	2866.5
25°	2785.0	2775.8	2786.9	2783.0	2814.1
27.5°	2706.5	2694.3	2701.5	2716.4	2735.5
30°	2617.0	2613.7	2608.9	2621.8	2651.0
32.5°	2528.3	2504.1	2500.2	2527.4	2560.6
35°	2405.6	2394.5	2376.4	2423.6	2447.7
37.5°	2288.9	2254.6	2225.3	2253.6	2263.5
40°	2112.7	2086.5	2018.1	2021.1	2007.0
42.5°	1896.3	1877.2	1746.2	1723.2	1683.8
45°	1616.3	1617.5	1462.5	1449.4	1387.0
47.5°	1291.2	1348.8	1213.9	1198.7	1106.1
50°	988.4	1092.1	1008.5	984.3	861.6
52.5°	741.8	893.8	867.6	815.3	646.1
55°	581.8	735.6	755.0	680.4	504.2
57.5°	437.9	606.0	637.1	575.6	389.6
60°	325.1	510.2	519.4	495.3	300.9
62.5°	241.5	433.8	421.8	424.8	223.3
65°	177.1	369.3	335.2	368.4	172.2
67.5°	144.8	320.0	260.6	319.1	140.0
70°	126.9	283.9	194.3	280.9	126.9
72.5°	122.7	260.6	154.0	249.6	123.9
75°	123.9	232.5	116.7	217.4	124.8
77.5°	113.7	191.3	88.6	185.1	118.8
80°	101.8	144.8	67.5	146.9	106.6
82.5°	86.6	105.7	54.3	108.7	89.6
85°	59.4	77.6	50.4	77.6	62.4
87.5°	28.1	46.3	31.3	44.2	32.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)