

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: P798250

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

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798250  
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-MID-3500K  
Description: GRLED Selectable  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

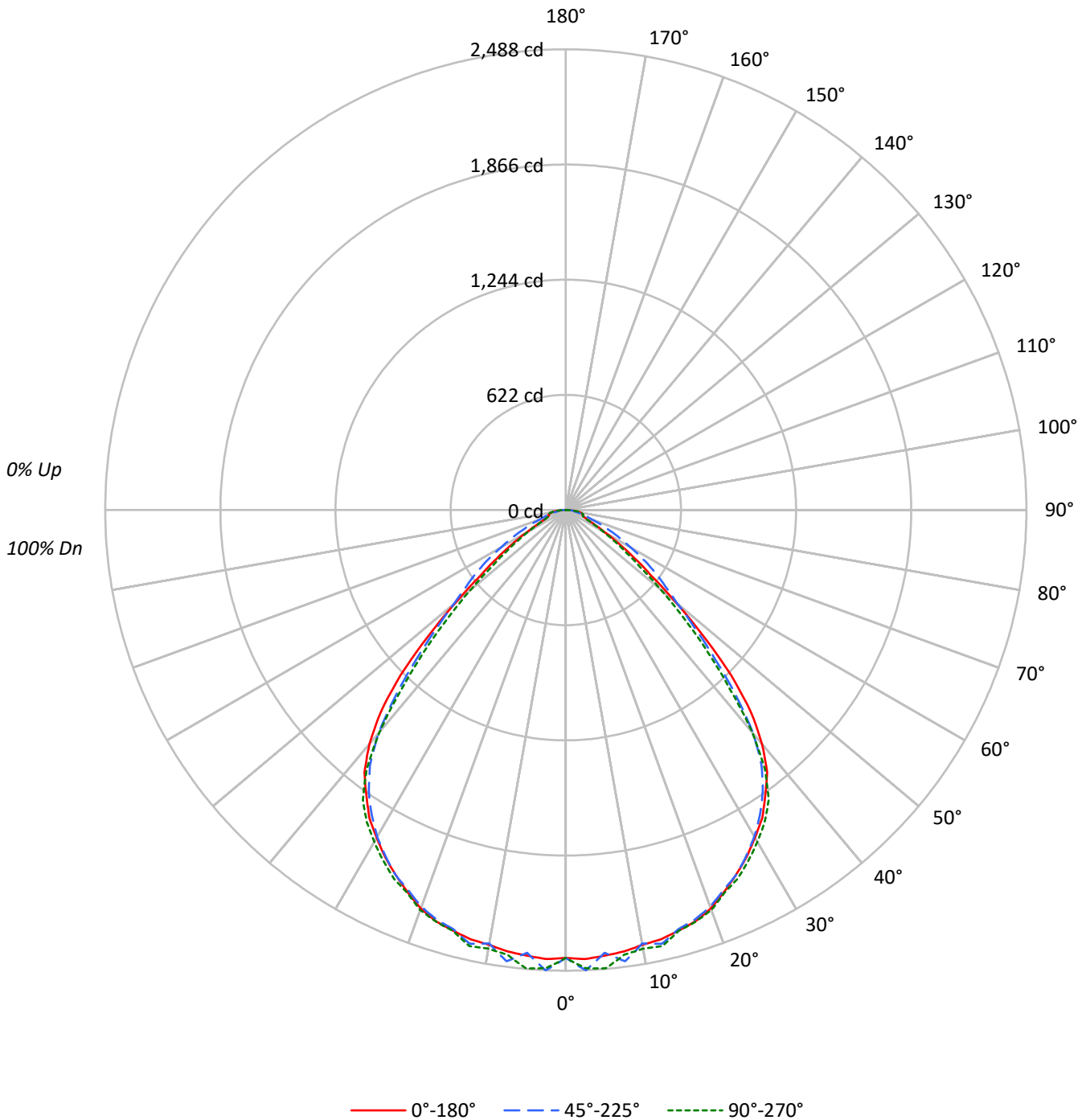
Lumens per Lamp: N/A  
Luminaire Lumens: 4892.9 lumens  
Efficiency: N/A  
Efficacy: 146.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.25  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
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°	3255	3255	3255
5°	3262	3241	3356
10°	3257	3247	3287
15°	3276	3265	3278
20°	3278	3265	3292
25°	3228	3230	3261
30°	3174	3164	3215
35°	3085	3047	3139
40°	2897	2767	2752
45°	2401	2173	2060
50°	1615	1648	1408
55°	1065	1383	924
60°	683	1091	632
65°	440	833	428
70°	389	597	389
75°	503	474	506
80°	615	408	645
85°	716	608	752

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2403 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.6	4.7
10°-20°	665.1	13.6
20°-30°	1001.4	20.5
30°-40°	1160.7	23.7
40°-50°	906.7	18.5
50°-60°	484.1	9.9
60°-70°	249.0	5.1
70°-80°	140.8	2.9
80°-90°	53.5	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°	1898.1	38.8
0°-40°	3058.8	62.5
0°-60°	4449.6	90.9
0°-90°	4892.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4892.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2419	2419	2419	2419	2419	
5°	2416	2483	2400	2466	2484	230
15°	2352	2367	2344	2359	2353	664
25°	2174	2167	2176	2173	2197	1002
35°	1878	1869	1855	1892	1911	1171
45°	1262	1263	1142	1132	1083	951
55°	454	574	589	531	394	419
65°	138	288	262	288	134	152
75°	97	182	91	170	97	98
85°	46	61	39	61	49	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2419.4	2419.4	2419.4	2419.4	2419.4
2.5°	2427.2	2471.2	2488.5	2467.3	2476.8
5°	2415.5	2483.1	2399.7	2465.6	2484.5
7.5°	2404.3	2397.3	2457.9	2395.0	2421.8
10°	2384.0	2388.7	2376.8	2421.8	2406.0
12.5°	2374.5	2402.0	2399.7	2376.8	2411.5
15°	2351.9	2366.8	2343.9	2358.9	2353.3
17.5°	2329.0	2321.8	2319.5	2325.8	2331.4
20°	2289.7	2266.1	2280.3	2281.9	2299.2
22.5°	2233.0	2219.0	2222.1	2236.3	2237.9
25°	2174.3	2167.1	2175.7	2172.6	2196.9
27.5°	2113.0	2103.4	2109.0	2120.7	2135.6
30°	2043.0	2040.5	2036.8	2046.8	2069.6
32.5°	1973.8	1955.0	1951.9	1973.1	1999.0
35°	1878.0	1869.4	1855.2	1892.1	1910.9
37.5°	1786.9	1760.1	1737.3	1759.4	1767.1
40°	1649.4	1628.9	1575.5	1577.9	1566.9
42.5°	1480.4	1465.5	1363.2	1345.3	1314.5
45°	1261.9	1262.7	1141.8	1131.5	1082.8
47.5°	1008.0	1053.0	947.6	935.8	863.5
50°	771.7	852.6	787.3	768.4	672.6
52.5°	579.2	697.8	677.3	636.5	504.4
55°	454.2	574.3	589.4	531.2	393.7
57.5°	341.9	473.1	497.4	449.4	304.1
60°	253.8	398.3	405.5	386.6	234.9
62.5°	188.6	338.7	329.3	331.6	174.4
65°	138.2	288.3	261.7	287.6	134.5
67.5°	113.1	249.9	203.5	249.1	109.3
70°	99.0	221.6	151.7	219.3	99.0
72.5°	95.8	203.5	120.3	194.8	96.7
75°	96.7	181.5	91.1	169.7	97.4
77.5°	88.8	149.4	69.2	144.5	92.8
80°	79.4	113.1	52.7	114.7	83.2
82.5°	67.6	82.5	42.4	84.8	69.9
85°	46.4	60.6	39.4	60.6	48.7
87.5°	21.9	36.1	24.4	34.5	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)