

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: P798197

Luminaire Tested: 22GRSCT3-A19 156-UNV-MID-4000K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798197  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P292552)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 22GRSCT3-A19 156-UNV-MID-4000K  
Description: GRLED Selectable  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

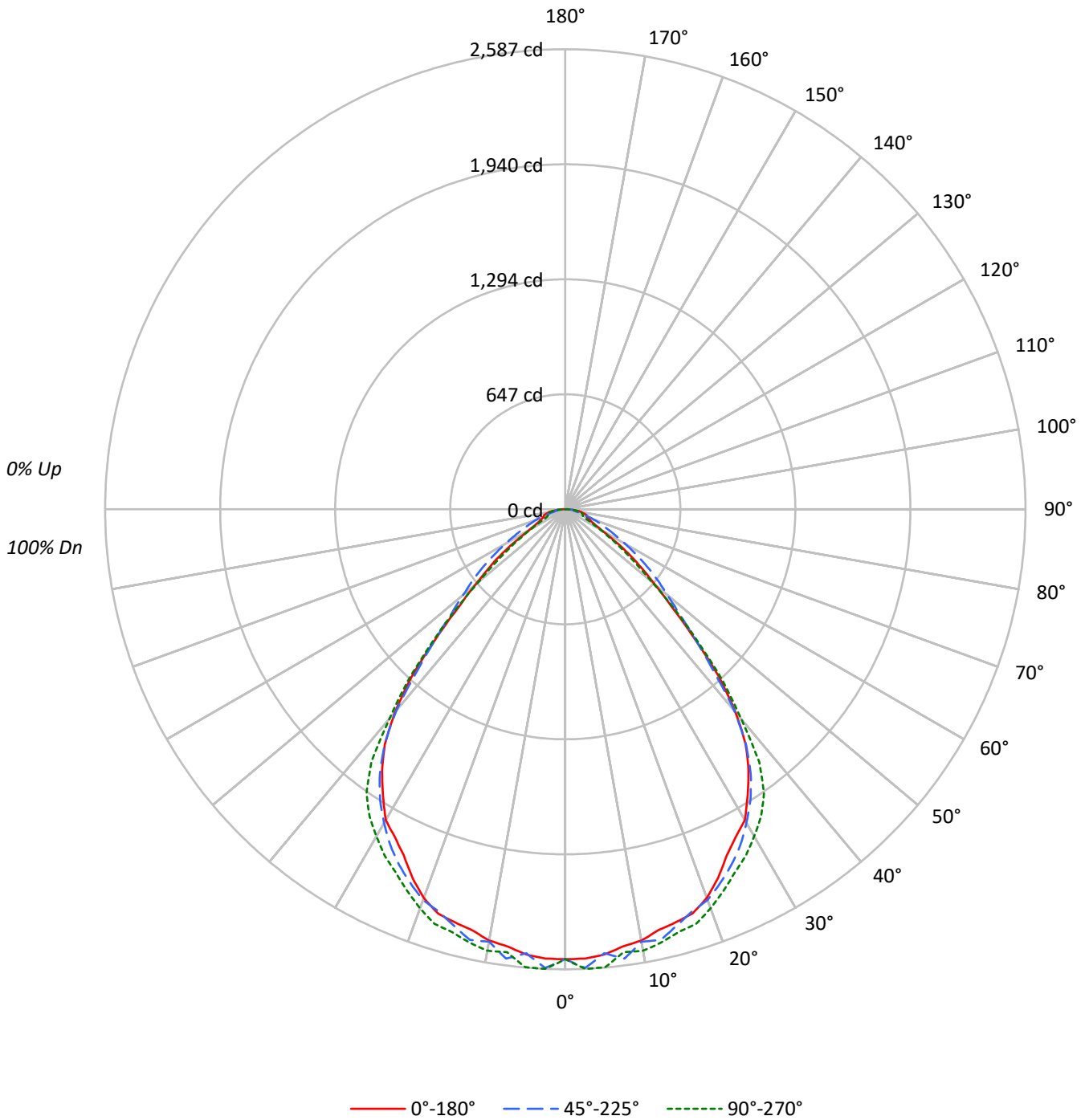
Lumens per Lamp: N/A  
Luminaire Lumens: 4854.0 lumens  
Efficiency: N/A  
Efficacy: 127.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.21  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 38  
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	91	90	90	90	90	88
2	103	96	90	85	100	94	89	85	91	86	83	88	84	81	85	82	79	79	79	79	77
3	95	86	79	74	93	85	79	73	82	77	72	79	75	71	77	73	70	70	70	70	68
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62	62	62	62	60
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	59	56	56	56	56	54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	50	50	50	48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	45	45	45	44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41	41	41	41	40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	38	38	38	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	35	35	35	33

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

	0°	45°	90°
0°	6808	6808	6808
5°	6790	6769	6982
10°	6728	6747	6888
15°	6697	6748	6856
20°	6661	6694	6838
25°	6377	6557	6693
30°	6272	6330	6599
35°	5899	5973	6398
40°	5227	5191	5395
45°	3904	3913	4021
50°	2748	3126	2662
55°	2029	2640	1819
60°	1269	2087	1188
65°	1033	1652	830
70°	1025	1377	820
75°	1272	1011	1058
80°	1418	797	1294
85°	1411	1485	1445

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4222 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.8	5.0
10°-20°	685.9	14.1
20°-30°	1015.9	20.9
30°-40°	1138.0	23.4
40°-50°	836.2	17.2
50°-60°	467.4	9.6
60°-70°	260.5	5.4
70°-80°	153.1	3.2
80°-90°	56.3	1.2
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°	1942.7	40.0
0°-40°	3080.6	63.5
0°-60°	4384.2	90.3
0°-90°	4854.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4854.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2530	2530	2530	2530	2530	
5°	2514	2561	2506	2557	2585	238
15°	2404	2419	2422	2459	2461	679
25°	2148	2165	2208	2239	2254	995
35°	1796	1797	1818	1901	1948	1112
45°	1026	1109	1028	1101	1057	802
55°	432	526	563	562	388	386
65°	162	288	260	333	130	168
75°	122	173	97	196	102	123
85°	46	68	48	62	47	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2529.9	2529.9	2529.9	2529.9	2529.9
2.5°	2528.6	2551.6	2581.3	2584.7	2587.0
5°	2513.8	2560.6	2505.8	2557.3	2584.7
7.5°	2479.5	2508.2	2548.0	2496.5	2511.5
10°	2462.4	2469.1	2469.1	2533.2	2520.6
12.5°	2423.4	2469.1	2480.5	2468.1	2495.5
15°	2404.0	2418.7	2422.3	2458.8	2461.1
17.5°	2382.3	2378.9	2370.9	2397.0	2444.1
20°	2326.2	2313.5	2337.6	2369.6	2388.0
22.5°	2243.7	2247.4	2275.8	2302.2	2322.8
25°	2147.8	2164.9	2208.3	2239.3	2254.1
27.5°	2075.7	2100.8	2130.5	2167.2	2197.0
30°	2018.6	2016.3	2037.0	2089.4	2123.8
32.5°	1907.7	1915.7	1937.5	2000.3	2048.3
35°	1795.6	1796.6	1818.3	1900.8	1947.5
37.5°	1666.3	1657.3	1669.7	1758.9	1789.9
40°	1488.0	1490.1	1477.6	1540.5	1535.8
42.5°	1279.7	1298.0	1232.9	1315.1	1309.4
45°	1025.9	1109.3	1028.2	1101.3	1056.6
47.5°	809.8	933.3	865.9	919.6	836.1
50°	656.5	783.4	746.7	770.7	635.8
52.5°	538.6	641.5	653.1	658.8	496.3
55°	432.4	526.0	562.7	561.6	387.7
57.5°	319.2	427.8	470.1	487.2	293.9
60°	235.7	355.6	387.7	425.4	220.7
62.5°	190.0	312.2	320.2	372.7	168.0
65°	162.3	288.2	259.5	332.9	130.3
67.5°	144.2	268.8	211.7	297.2	110.9
70°	130.3	239.1	175.0	266.5	104.2
72.5°	126.9	203.7	134.9	237.8	102.9
75°	122.3	172.7	97.2	195.7	101.8
77.5°	105.2	147.6	69.8	150.9	94.9
80°	91.5	117.9	51.4	113.2	83.5
82.5°	70.8	89.2	45.7	85.8	67.5
85°	45.7	67.5	48.1	61.8	46.8
87.5°	21.7	37.7	34.4	33.1	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)