

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: P798195

Luminaire Tested: 22GRSCT3-A19 156-UNV-MID-3000K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798195  
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-3000K  
Description: GRLED Selectable  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

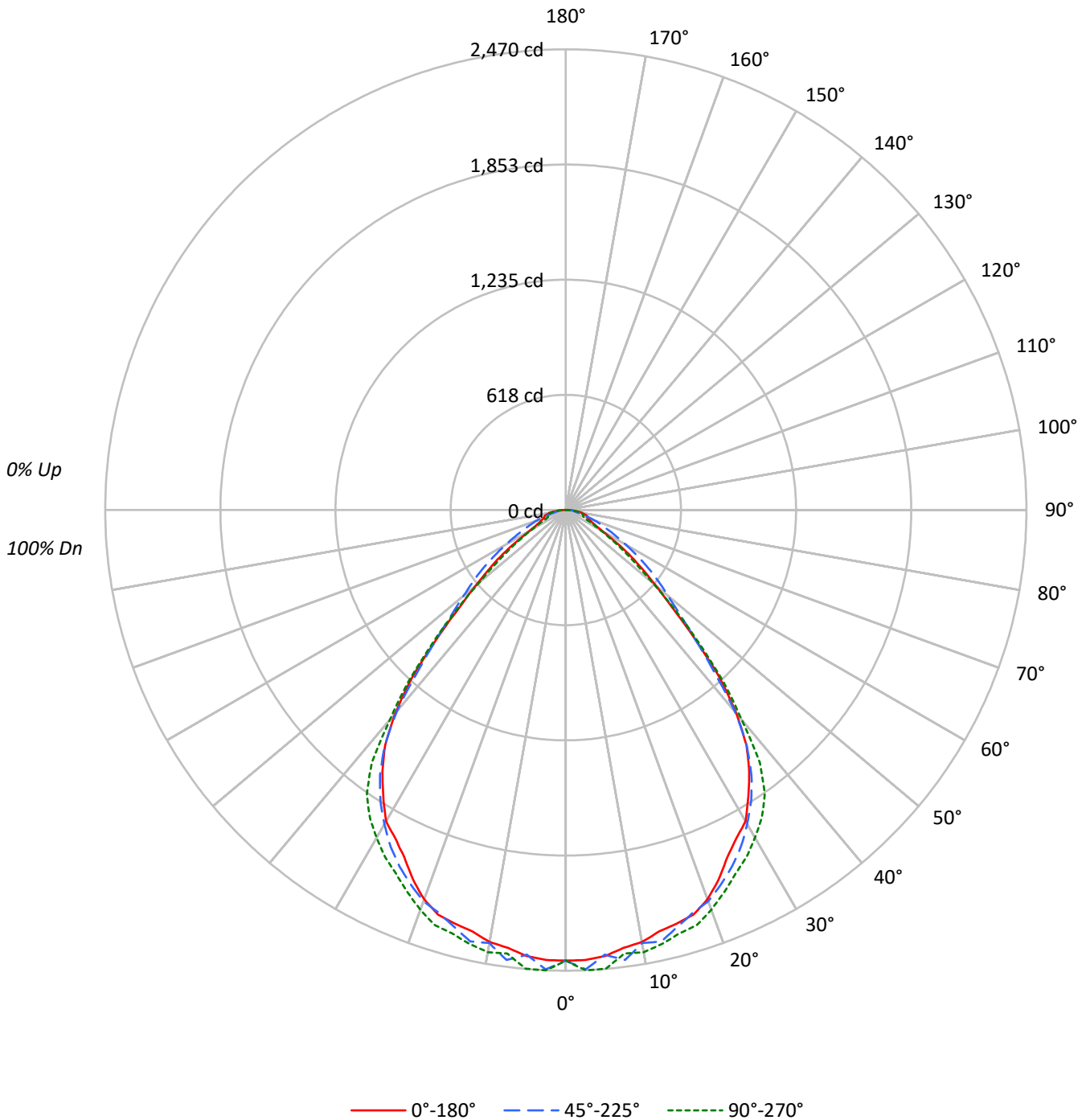
Lumens per Lamp: N/A  
Luminaire Lumens: 4635.3 lumens  
Efficiency: N/A  
Efficacy: 121.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.21  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.1  
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	90	88	
2	103	96	90	85	100	94	89	85	91	86	83	88	84	81	85	82	79	79	77	
3	95	86	79	74	93	85	79	73	82	77	72	79	75	71	77	73	70	70	68	
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62	62	60	
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	59	56	56	54	
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	50	48	
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	45	44	
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41	41	40	
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	38	36	
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	35	33	

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

	0°	45°	90°
0°	6501	6501	6501
5°	6485	6464	6667
10°	6425	6443	6577
15°	6396	6444	6548
20°	6361	6393	6530
25°	6090	6262	6391
30°	5990	6044	6302
35°	5633	5704	6110
40°	4992	4957	5152
45°	3728	3737	3840
50°	2624	2985	2542
55°	1937	2521	1737
60°	1211	1992	1135
65°	987	1578	792
70°	979	1315	783
75°	1213	965	1011
80°	1354	761	1235
85°	1349	1417	1380

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 4032 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.0	5.0
10°-20°	655.0	14.1
20°-30°	970.2	20.9
30°-40°	1086.7	23.4
40°-50°	798.5	17.2
50°-60°	446.3	9.6
60°-70°	248.7	5.4
70°-80°	146.1	3.2
80°-90°	53.7	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°	1855.2	40.0
0°-40°	2941.9	63.5
0°-60°	4186.7	90.3
0°-90°	4635.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4635.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2416	2416	2416	2416	2416	
5°	2401	2445	2393	2442	2468	227
15°	2296	2310	2313	2348	2350	648
25°	2051	2067	2109	2138	2153	951
35°	1715	1716	1736	1815	1860	1062
45°	980	1059	982	1052	1009	765
55°	413	502	537	536	370	368
65°	155	275	248	318	124	160
75°	117	165	93	187	97	117
85°	44	64	46	59	45	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2415.9	2415.9	2415.9	2415.9	2415.9
2.5°	2414.7	2436.7	2465.0	2468.2	2470.5
5°	2400.6	2445.3	2393.0	2442.1	2468.2
7.5°	2367.8	2395.2	2433.2	2384.1	2398.4
10°	2351.5	2357.9	2357.9	2419.1	2407.0
12.5°	2314.2	2357.9	2368.8	2356.9	2383.1
15°	2295.7	2309.8	2313.2	2348.0	2350.3
17.5°	2275.0	2271.8	2264.1	2289.1	2334.0
20°	2221.4	2209.3	2232.3	2262.9	2280.4
22.5°	2142.7	2146.1	2173.3	2198.5	2218.2
25°	2051.1	2067.4	2108.9	2138.5	2152.6
27.5°	1982.2	2006.2	2034.6	2069.6	2098.0
30°	1927.7	1925.5	1945.2	1995.3	2028.2
32.5°	1821.8	1829.5	1850.2	1910.2	1956.1
35°	1714.7	1715.7	1736.4	1815.1	1859.8
37.5°	1591.3	1582.6	1594.5	1679.6	1709.3
40°	1421.0	1422.9	1411.1	1471.1	1466.6
42.5°	1222.0	1239.6	1177.4	1255.8	1250.4
45°	979.6	1059.4	981.9	1051.7	1009.0
47.5°	773.3	891.3	826.9	878.2	798.5
50°	626.9	748.1	713.1	736.0	607.2
52.5°	514.4	612.6	623.7	629.2	473.9
55°	412.9	502.3	537.3	536.3	370.2
57.5°	304.8	408.5	449.0	465.3	280.6
60°	225.1	339.6	370.2	406.3	210.8
62.5°	181.4	298.2	305.8	355.9	160.4
65°	155.0	275.2	247.8	317.9	124.4
67.5°	137.7	256.7	202.1	283.8	105.9
70°	124.4	228.3	167.1	254.5	99.5
72.5°	121.2	194.5	128.8	227.1	98.2
75°	116.7	164.9	92.8	186.8	97.2
77.5°	100.5	140.9	66.6	144.1	90.6
80°	87.4	112.6	49.1	108.1	79.7
82.5°	67.6	85.2	43.7	81.9	64.4
85°	43.7	64.4	45.9	59.0	44.7
87.5°	20.7	36.0	32.8	31.6	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)