

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: P798189

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798189
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-HIGH-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

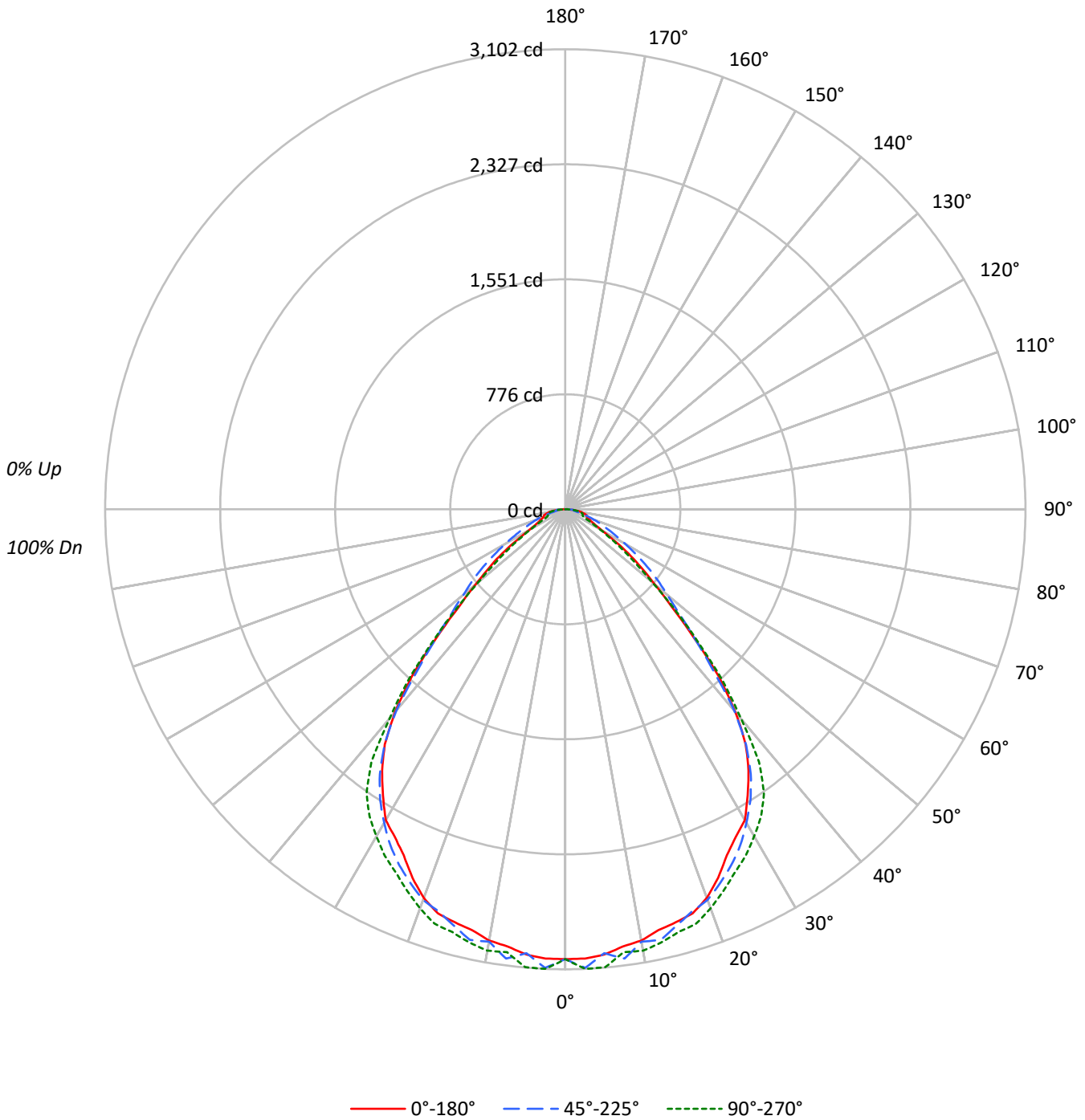
Lumens per Lamp: N/A
Luminaire Lumens: 5820.1 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.21
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50.9
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°	8163	8163	8163
5°	8142	8116	8371
10°	8068	8090	8258
15°	8030	8091	8221
20°	7987	8026	8199
25°	7646	7862	8025
30°	7521	7589	7913
35°	7072	7162	7671
40°	6267	6224	6469
45°	4681	4692	4821
50°	3296	3748	3192
55°	2433	3165	2181
60°	1521	2502	1425
65°	1239	1981	995
70°	1229	1651	983
75°	1524	1211	1269
80°	1700	956	1551
85°	1695	1778	1732

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 5062 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.8	5.0
10°-20°	822.4	14.1
20°-30°	1218.1	20.9
30°-40°	1364.5	23.4
40°-50°	1002.6	17.2
50°-60°	560.4	9.6
60°-70°	312.3	5.4
70°-80°	183.5	3.2
80°-90°	67.4	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°	2329.3	40.0
0°-40°	3693.8	63.5
0°-60°	5256.8	90.3
0°-90°	5820.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5820.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3033	3033	3033	3033	3033	
5°	3014	3070	3004	3066	3099	285
15°	2882	2900	2904	2948	2951	814
25°	2575	2596	2648	2685	2703	1194
35°	2153	2154	2180	2279	2335	1334
45°	1230	1330	1233	1320	1267	961
55°	518	631	675	673	465	463
65°	195	346	311	399	156	201
75°	147	207	116	235	122	147
85°	55	81	58	74	56	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3033.4	3033.4	3033.4	3033.4	3033.4
2.5°	3031.8	3059.4	3095.0	3099.1	3101.9
5°	3014.2	3070.2	3004.5	3066.2	3099.1
7.5°	2972.9	3007.3	3055.1	2993.4	3011.4
10°	2952.5	2960.5	2960.5	3037.4	3022.2
12.5°	2905.7	2960.5	2974.2	2959.3	2992.2
15°	2882.4	2900.1	2904.4	2948.1	2950.9
17.5°	2856.4	2852.4	2842.8	2874.1	2930.5
20°	2789.2	2774.0	2802.8	2841.2	2863.2
22.5°	2690.3	2694.6	2728.7	2760.3	2785.1
25°	2575.3	2595.8	2647.8	2685.0	2702.7
27.5°	2488.9	2518.9	2554.6	2598.6	2634.2
30°	2420.4	2417.6	2442.4	2505.3	2546.5
32.5°	2287.4	2297.0	2323.1	2398.4	2456.0
35°	2152.9	2154.2	2180.2	2279.1	2335.1
37.5°	1998.0	1987.1	2002.0	2108.9	2146.1
40°	1784.1	1786.6	1771.7	1847.0	1841.5
42.5°	1534.3	1556.4	1478.3	1576.8	1570.0
45°	1230.0	1330.1	1232.8	1320.5	1266.9
47.5°	970.9	1119.1	1038.2	1102.6	1002.5
50°	787.2	939.3	895.3	924.1	762.4
52.5°	645.8	769.2	783.1	790.0	595.0
55°	518.5	630.7	674.7	673.4	464.9
57.5°	382.7	512.9	563.7	584.2	352.4
60°	282.6	426.4	464.9	510.1	264.7
62.5°	227.8	374.4	384.0	446.9	201.4
65°	194.6	345.5	311.1	399.2	156.2
67.5°	172.9	322.3	253.8	356.4	133.0
70°	156.2	286.7	209.8	319.5	124.9
72.5°	152.2	244.2	161.8	285.1	123.3
75°	146.6	207.0	116.5	234.6	122.1
77.5°	126.1	177.0	83.7	181.0	113.7
80°	109.7	141.3	61.7	135.7	100.1
82.5°	84.9	106.9	54.9	102.9	80.9
85°	54.9	80.9	57.6	74.1	56.1
87.5°	26.0	45.2	41.2	39.7	28.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)