

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: P798181

Luminaire Tested: 22GRSCT3-A-UNV-HIGH-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P292160)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22GRSCT3-A-UNV-HIGH-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

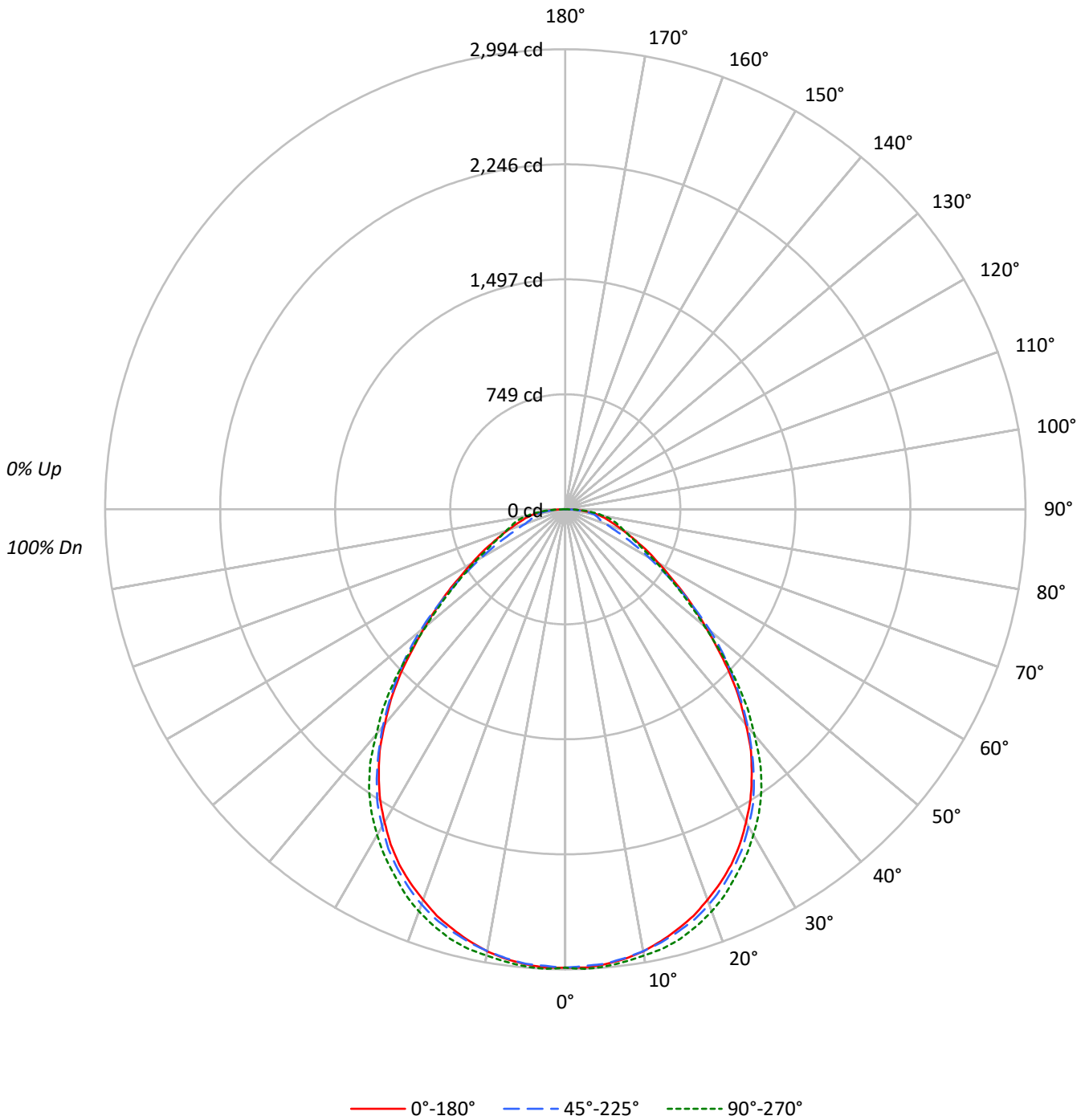
Lumens per Lamp: N/A
Luminaire Lumens: 6515.0 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 48.6
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	88	88	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	76	76	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	66	66	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	58	58	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	51	51	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	46	46	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	41	41	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	37	37	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	34	34	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	31	31	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8029	8029	8029
5°	8031	8018	8068
10°	7983	7979	8058
15°	7881	7923	8063
20°	7745	7836	7976
25°	7580	7666	7806
30°	7307	7406	7608
35°	6947	7027	7311
40°	6423	6492	6721
45°	5770	5874	5966
50°	4989	5167	4937
55°	4353	4239	4183
60°	3770	3394	3623
65°	3370	2665	3254
70°	3126	2207	3210
75°	3120	2333	3561
80°	3456	2935	4018
85°	3606	3183	4536

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5966 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.4	4.3
10°-20°	804.2	12.3
20°-30°	1189.3	18.3
30°-40°	1342.1	20.6
40°-50°	1183.1	18.2
50°-60°	811.6	12.5
60°-70°	478.9	7.4
70°-80°	298.8	4.6
80°-90°	124.6	1.9
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°	2275.8	34.9
0°-40°	3617.9	55.5
0°-60°	5612.6	86.1
0°-90°	6515.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6515.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2984	2984	2984	2984	2984	
5°	2973	2967	2968	2979	2987	282
15°	2829	2832	2844	2879	2894	797
25°	2553	2562	2582	2615	2629	1172
35°	2115	2133	2139	2191	2226	1318
45°	1516	1524	1544	1552	1568	1165
55°	928	905	904	873	892	832
65°	529	466	419	484	511	533
75°	300	270	224	314	342	322
85°	117	109	103	135	147	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2983.5	2983.5	2983.5	2983.5	2983.5
2.5°	2985.2	2977.7	2974.6	2986.6	2994.1
5°	2972.9	2967.0	2968.4	2979.0	2986.6
7.5°	2952.0	2947.2	2947.2	2962.6	2970.1
10°	2921.5	2920.1	2920.1	2938.3	2948.9
12.5°	2879.0	2880.7	2886.6	2910.9	2929.0
15°	2829.0	2832.1	2844.1	2879.0	2894.1
17.5°	2774.5	2774.5	2798.5	2825.9	2844.1
20°	2704.7	2709.1	2736.5	2767.0	2785.2
22.5°	2633.4	2641.0	2663.9	2698.5	2715.3
25°	2552.9	2562.2	2582.0	2615.3	2629.0
27.5°	2459.1	2471.1	2492.3	2516.6	2545.4
30°	2351.5	2369.7	2383.4	2416.6	2448.4
32.5°	2242.2	2259.0	2274.1	2309.0	2345.3
35°	2114.8	2133.0	2139.1	2190.9	2225.5
37.5°	1984.7	1992.2	1995.3	2046.7	2084.7
40°	1828.5	1843.5	1848.0	1889.1	1913.4
42.5°	1678.4	1684.3	1693.5	1723.6	1752.8
45°	1516.1	1523.6	1543.5	1552.4	1567.8
47.5°	1346.2	1369.1	1391.7	1363.0	1364.3
50°	1191.7	1209.8	1234.2	1179.4	1179.4
52.5°	1053.6	1062.9	1064.3	1018.7	1028.0
55°	927.9	905.0	903.6	873.1	891.6
57.5°	801.9	771.7	761.1	751.9	773.1
60°	700.5	645.7	630.6	644.3	673.1
62.5°	616.9	547.4	518.6	553.5	579.2
65°	529.2	465.5	418.6	483.7	511.1
67.5°	461.1	400.1	339.5	431.9	451.8
70°	397.3	350.1	280.5	392.5	408.0
72.5°	345.6	309.3	242.5	354.9	373.0
75°	300.1	269.9	224.4	313.8	342.5
77.5°	263.8	230.5	209.3	271.3	306.2
80°	223.0	189.4	189.4	227.4	259.3
82.5°	175.7	148.7	153.1	185.0	207.6
85°	116.8	109.3	103.1	135.0	146.9
87.5°	59.3	60.6	54.5	69.9	71.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)