

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: P798207

Luminaire Tested: 22GRSCT3-F1-UNV-HIGH-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2311-232-58)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22GRSCT3-F1-UNV-HIGH-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

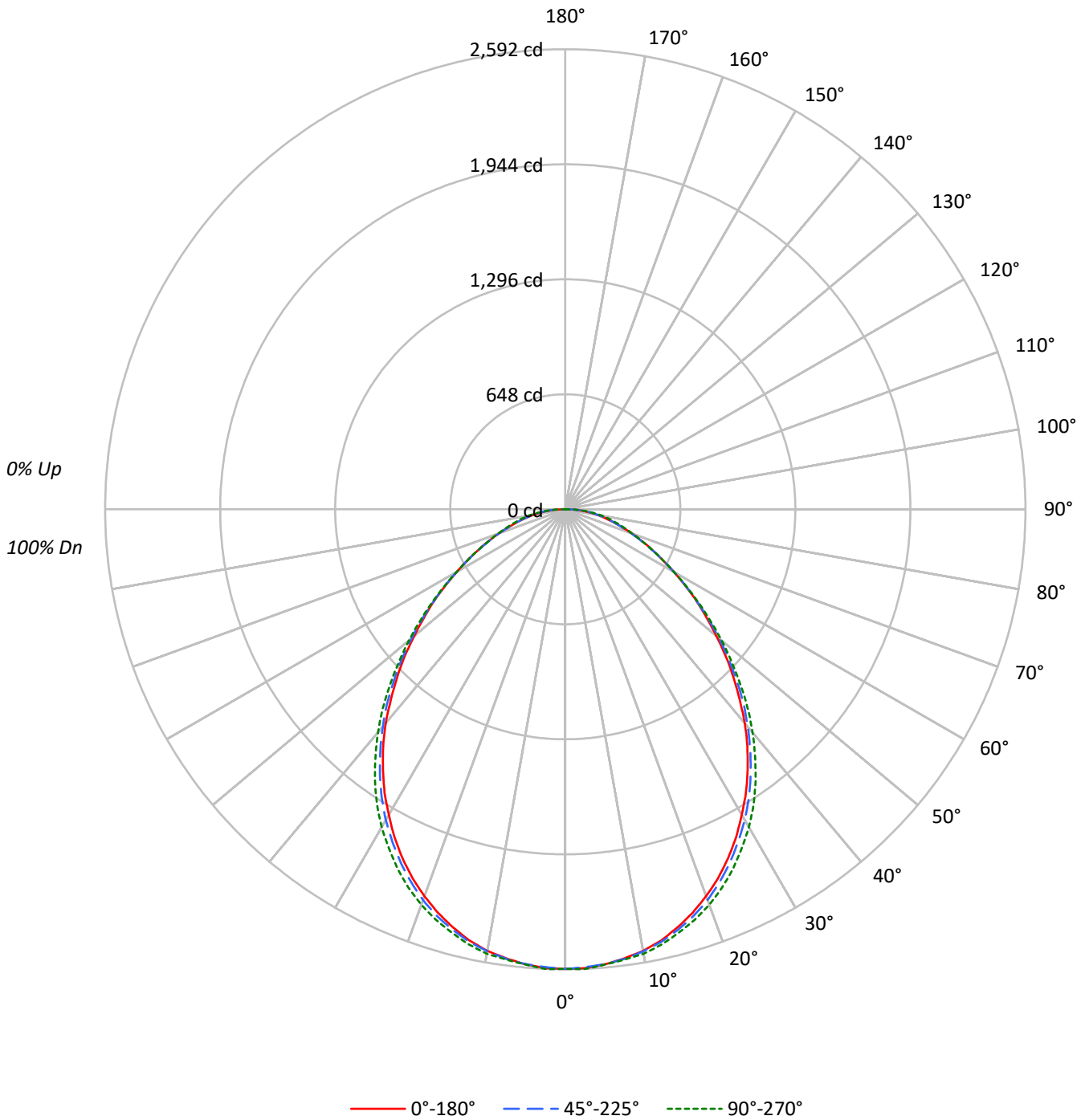
Lumens per Lamp: N/A
Luminaire Lumens: 5910.0 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	100	100	100	100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85	85	85	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73	73	73	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62	62	62	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54	54	54	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	48	48	48	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42	42	42	42
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40	38	38	38	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34	34	34	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	32	31	31	31	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28	28	28	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6969	6969	6969
5°	6951	6949	6954
10°	6903	6910	6948
15°	6795	6833	6879
20°	6642	6710	6790
25°	6440	6518	6636
30°	6175	6283	6426
35°	5882	5978	6138
40°	5525	5615	5764
45°	5099	5195	5306
50°	4648	4728	4811
55°	4235	4252	4294
60°	3803	3803	3803
65°	3431	3414	3431
70°	3133	3105	3176
75°	2905	2914	3121
80°	2839	2938	3261
85°	2970	3165	3612

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5306 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.4	4.1
10°-20°	691.4	11.7
20°-30°	1011.1	17.1
30°-40°	1139.3	19.3
40°-50°	1054.1	17.8
50°-60°	814.1	13.8
60°-70°	537.3	9.1
70°-80°	306.8	5.2
80°-90°	111.4	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°	1947.0	32.9
0°-40°	3086.3	52.2
0°-60°	4954.5	83.8
0°-90°	5910.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5910.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2590	2590	2590	2590	2590	
5°	2573	2577	2572	2572	2574	244
15°	2439	2448	2453	2462	2469	687
25°	2169	2181	2195	2220	2235	997
35°	1791	1802	1820	1852	1869	1118
45°	1340	1352	1365	1385	1394	1033
55°	903	902	906	912	915	807
65°	539	537	536	539	539	538
75°	279	282	280	295	300	300
85°	96	99	102	113	117	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2589.7	2589.7	2589.7	2589.7	2589.7
2.5°	2587.0	2589.7	2581.6	2586.1	2592.5
5°	2573.4	2577.0	2572.5	2572.5	2574.3
7.5°	2551.6	2557.1	2554.4	2557.1	2558.9
10°	2526.2	2530.8	2529.0	2536.2	2542.6
12.5°	2489.1	2494.5	2496.3	2505.4	2511.7
15°	2439.2	2448.2	2452.8	2461.8	2469.1
17.5°	2383.8	2393.8	2402.0	2413.8	2424.6
20°	2319.4	2331.2	2343.0	2358.4	2371.1
22.5°	2249.6	2260.5	2272.3	2293.1	2307.6
25°	2168.8	2180.6	2195.2	2219.6	2235.1
27.5°	2083.6	2094.5	2109.9	2138.0	2152.5
30°	1987.4	2002.9	2021.9	2050.0	2068.2
32.5°	1894.0	1906.7	1924.8	1953.9	1973.8
35°	1790.6	1802.4	1819.6	1852.3	1868.6
37.5°	1684.5	1693.5	1710.8	1743.4	1756.1
40°	1572.9	1582.0	1598.3	1628.2	1640.9
42.5°	1453.2	1468.6	1485.8	1508.5	1521.2
45°	1339.8	1352.5	1365.2	1385.1	1394.2
47.5°	1227.3	1235.5	1247.2	1263.6	1269.0
50°	1110.3	1119.3	1129.3	1141.1	1149.3
52.5°	1003.2	1008.7	1015.9	1023.2	1028.6
55°	902.6	901.6	906.2	912.5	915.3
57.5°	800.1	801.0	803.7	807.3	809.1
60°	706.6	705.7	706.6	708.4	706.6
62.5°	618.6	617.7	616.8	618.6	619.5
65°	538.8	537.0	536.1	538.8	538.8
67.5°	465.3	463.5	461.7	467.2	466.2
70°	398.2	397.3	394.6	401.8	403.7
72.5°	335.6	336.5	333.8	348.3	350.1
75°	279.4	282.1	280.3	294.8	300.2
77.5°	230.4	234.0	234.9	247.6	254.0
80°	183.2	186.0	189.6	202.3	210.4
82.5°	139.7	141.5	148.8	156.9	163.3
85°	96.2	98.9	102.5	113.4	117.0
87.5°	49.9	52.6	55.3	65.3	63.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)