

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: P798229

Luminaire Tested: 22GRSCT3-FGW080-UNV-LOW-3500K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798229  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P292748)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 22GRSCT3-FGW080-UNV-LOW-3500K  
Description: GRLED Selectable  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

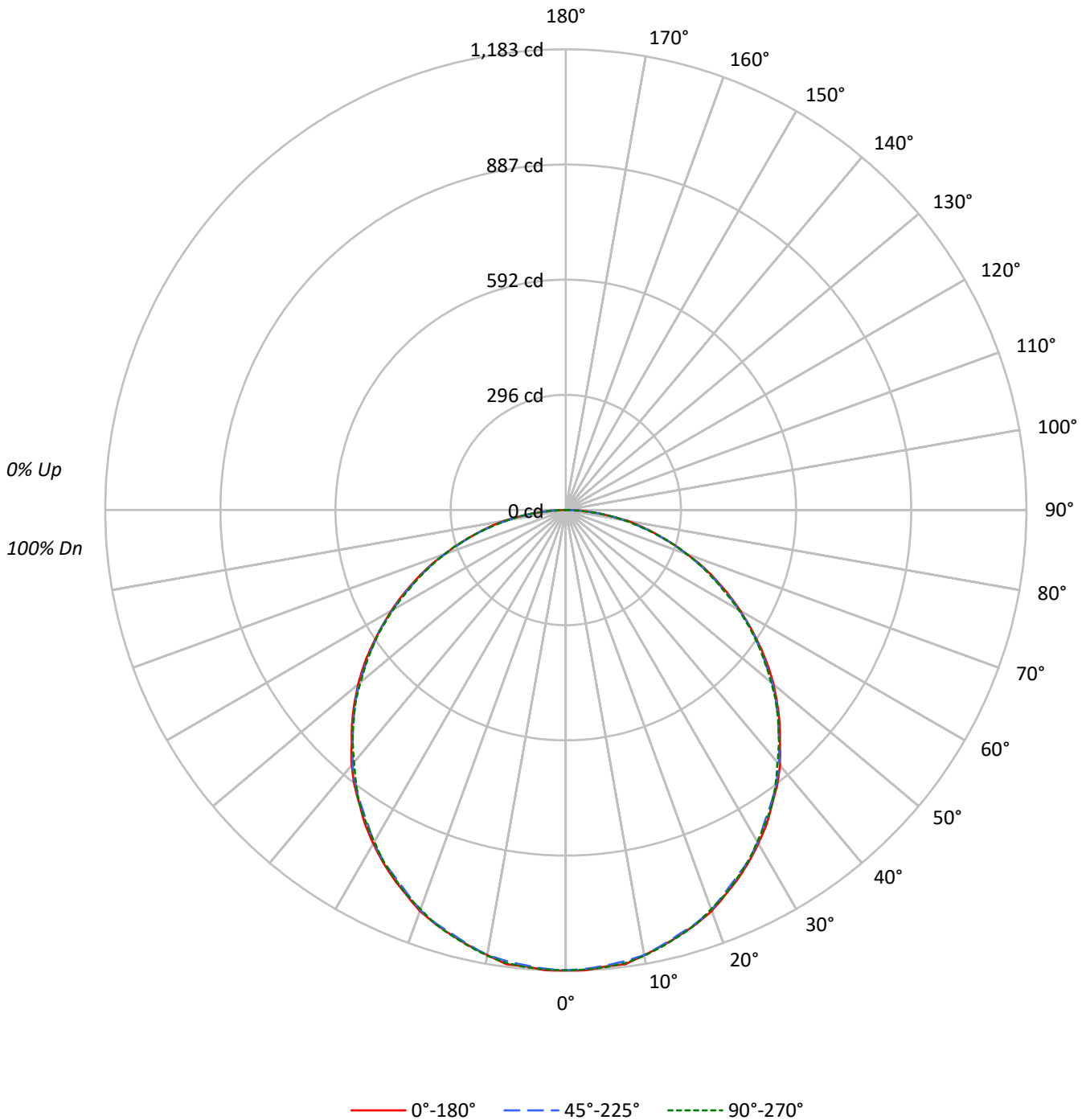
Lumens per Lamp: N/A  
Luminaire Lumens: 3377.2 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.6  
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	100	100	100	100
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83	83	83	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69	69	69	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58	58	58	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49	49	49	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43	43	43	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37	37	37	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33	33	33	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29	29	29	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26	26	26	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24	24	24	24

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

	0°	45°	90°
0°	3181	3181	3181
5°	3177	3172	3182
10°	3171	3171	3176
15°	3149	3141	3152
20°	3138	3130	3124
25°	3103	3086	3094
30°	3072	3063	3057
35°	3033	3020	3033
40°	3007	2992	2971
45°	2955	2936	2936
50°	2915	2898	2881
55°	2852	2834	2829
60°	2786	2770	2759
65°	2714	2684	2672
70°	2605	2599	2605
75°	2515	2484	2506
80°	2490	2365	2352
85°	2205	2140	2174

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2955 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.8	3.3
10°-20°	319.1	9.4
20°-30°	480.4	14.2
30°-40°	576.6	17.1
40°-50°	596.6	17.7
50°-60°	540.6	16.0
60°-70°	419.0	12.4
70°-80°	254.4	7.5
80°-90°	78.7	2.3
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°	911.3	27.0
0°-40°	1487.9	44.1
0°-60°	2625.1	77.7
0°-90°	3377.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3377.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1182	1182	1182	1182	1182	
5°	1176	1176	1174	1177	1178	112
15°	1130	1130	1127	1132	1132	319
25°	1045	1043	1039	1043	1042	482
35°	923	923	919	920	923	579
45°	777	776	772	772	772	599
55°	608	607	604	603	603	544
65°	426	426	422	423	420	422
75°	242	241	239	239	241	257
85°	71	70	69	69	70	81
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1182.1	1182.1	1182.1	1182.1	1182.1
2.5°	1183.0	1178.1	1179.2	1181.1	1181.1
5°	1176.2	1176.2	1174.1	1177.0	1178.1
7.5°	1176.2	1171.1	1168.1	1171.1	1173.2
10°	1160.3	1158.2	1160.3	1159.2	1162.2
12.5°	1146.3	1144.4	1144.4	1147.4	1147.4
15°	1130.4	1130.4	1127.4	1132.5	1131.5
17.5°	1114.7	1114.7	1112.6	1112.6	1114.7
20°	1095.8	1090.8	1092.9	1091.8	1090.8
22.5°	1070.0	1067.0	1065.1	1068.1	1068.9
25°	1045.2	1043.3	1039.2	1043.3	1042.2
27.5°	1018.5	1016.3	1015.5	1013.4	1015.5
30°	988.8	986.7	985.6	983.7	983.7
32.5°	958.9	954.9	950.0	954.9	954.0
35°	923.3	923.3	919.2	920.3	923.3
37.5°	891.5	889.6	887.4	884.5	885.5
40°	855.9	852.9	851.8	849.9	845.9
42.5°	814.1	814.1	810.3	811.1	810.3
45°	776.6	775.5	771.5	771.5	771.5
47.5°	736.7	735.9	732.9	730.8	732.9
50°	696.2	692.2	692.2	689.2	688.2
52.5°	653.6	650.4	646.6	647.5	645.5
55°	607.8	607.0	604.0	602.9	602.9
57.5°	562.2	563.3	561.2	557.4	558.2
60°	517.7	516.7	514.7	512.6	512.6
62.5°	472.1	472.1	468.1	468.1	464.1
65°	426.3	426.3	421.5	423.4	419.6
67.5°	380.8	379.9	376.7	375.9	376.7
70°	331.1	332.2	330.3	330.3	331.1
72.5°	286.6	285.6	284.5	284.5	286.6
75°	241.9	241.0	238.9	238.9	241.0
77.5°	201.4	196.3	195.3	197.4	194.4
80°	160.7	153.7	152.6	151.8	151.8
82.5°	113.0	110.0	111.1	110.0	112.1
85°	71.4	70.4	69.3	69.3	70.4
87.5°	33.7	31.8	31.8	30.7	30.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)