

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: P798230

Luminaire Tested: 22GRSCT3-FGW080-UNV-LOW-4000K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798230  
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-4000K  
Description: GRLED Selectable  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

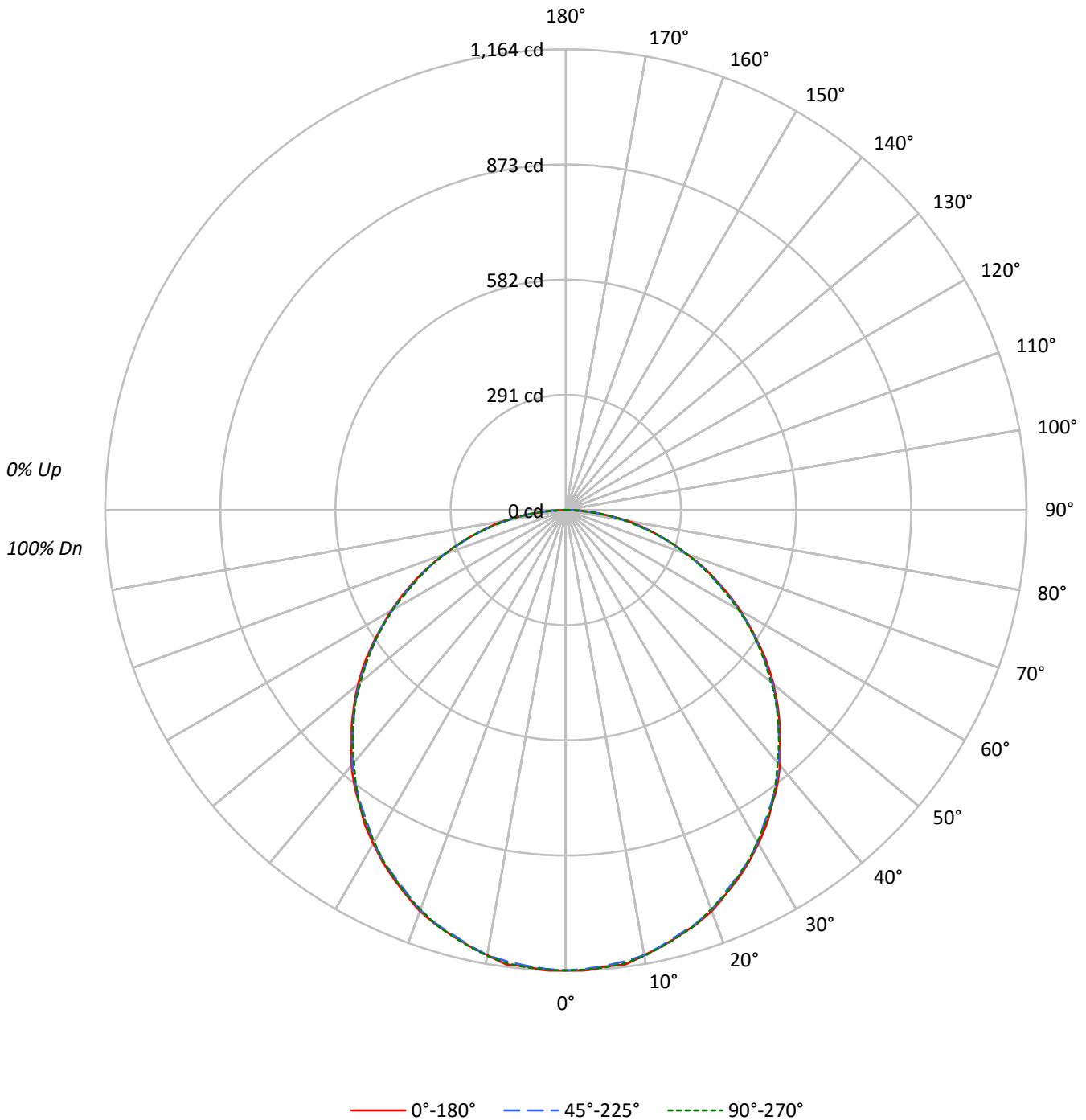
Lumens per Lamp: N/A  
Luminaire Lumens: 3323.8 lumens  
Efficiency: N/A  
Efficacy: 112.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 29.5  
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				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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	85	85	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	71	71	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	60	60	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	51	51	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	45	45	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	39	39	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	35	35	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	26	26	26	24

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

	0°	45°	90°
0°	3131	3131	3131
5°	3127	3121	3132
10°	3120	3120	3125
15°	3099	3091	3102
20°	3088	3080	3074
25°	3054	3037	3045
30°	3024	3014	3008
35°	2985	2972	2985
40°	2959	2945	2924
45°	2909	2890	2890
50°	2869	2852	2835
55°	2807	2789	2784
60°	2742	2726	2715
65°	2672	2641	2629
70°	2564	2558	2564
75°	2476	2444	2466
80°	2452	2328	2315
85°	2171	2106	2140

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2909 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.0	3.3
10°-20°	314.0	9.4
20°-30°	472.8	14.2
30°-40°	567.4	17.1
40°-50°	587.2	17.7
50°-60°	532.0	16.0
60°-70°	412.4	12.4
70°-80°	250.4	7.5
80°-90°	77.5	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°	896.9	27.0
0°-40°	1464.3	44.1
0°-60°	2583.5	77.7
0°-90°	3323.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3323.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1163	1163	1163	1163	1163	
5°	1158	1158	1156	1158	1160	110
15°	1112	1112	1110	1115	1114	314
25°	1029	1027	1023	1027	1026	474
35°	909	909	905	906	909	570
45°	764	763	759	759	759	590
55°	598	597	594	593	593	535
65°	420	420	415	417	413	415
75°	238	237	235	235	237	253
85°	70	69	68	68	69	80
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1163.4	1163.4	1163.4	1163.4	1163.4
2.5°	1164.3	1159.5	1160.5	1162.4	1162.4
5°	1157.6	1157.6	1155.5	1158.4	1159.5
7.5°	1157.6	1152.6	1149.7	1152.6	1154.7
10°	1141.9	1139.8	1141.9	1140.9	1143.8
12.5°	1128.2	1126.3	1126.3	1129.2	1129.2
15°	1112.5	1112.5	1109.6	1114.6	1113.6
17.5°	1097.1	1097.1	1095.0	1095.0	1097.1
20°	1078.5	1073.5	1075.6	1074.5	1073.5
22.5°	1053.1	1050.1	1048.3	1051.2	1052.0
25°	1028.6	1026.8	1022.8	1026.8	1025.7
27.5°	1002.3	1000.3	999.4	997.3	999.4
30°	973.1	971.1	970.0	968.1	968.1
32.5°	943.7	939.8	935.0	939.8	938.9
35°	908.7	908.7	904.7	905.7	908.7
37.5°	877.4	875.5	873.4	870.5	871.5
40°	842.3	839.4	838.4	836.5	832.5
42.5°	801.2	801.2	797.5	798.3	797.5
45°	764.3	763.2	759.3	759.3	759.3
47.5°	725.1	724.2	721.3	719.2	721.3
50°	685.2	681.2	681.2	678.3	677.3
52.5°	643.3	640.1	636.4	637.2	635.3
55°	598.2	597.4	594.4	593.4	593.4
57.5°	553.3	554.4	552.3	548.5	549.4
60°	509.5	508.5	506.6	504.5	504.5
62.5°	464.7	464.7	460.7	460.7	456.7
65°	419.6	419.6	414.8	416.7	412.9
67.5°	374.7	373.9	370.8	369.9	370.8
70°	325.9	327.0	325.1	325.1	325.9
72.5°	282.1	281.1	280.0	280.0	282.1
75°	238.1	237.2	235.1	235.1	237.2
77.5°	198.2	193.2	192.2	194.3	191.3
80°	158.2	151.3	150.2	149.4	149.4
82.5°	111.2	108.3	109.3	108.3	110.4
85°	70.3	69.3	68.2	68.2	69.3
87.5°	33.2	31.3	31.3	30.3	30.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)