

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: P798284

Luminaire Tested: 24GRSCT3-FGW080-UNV-LOW-4000K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798284  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294214)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 24GRSCT3-FGW080-UNV-LOW-4000K  
Description: GRLED Selectable  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

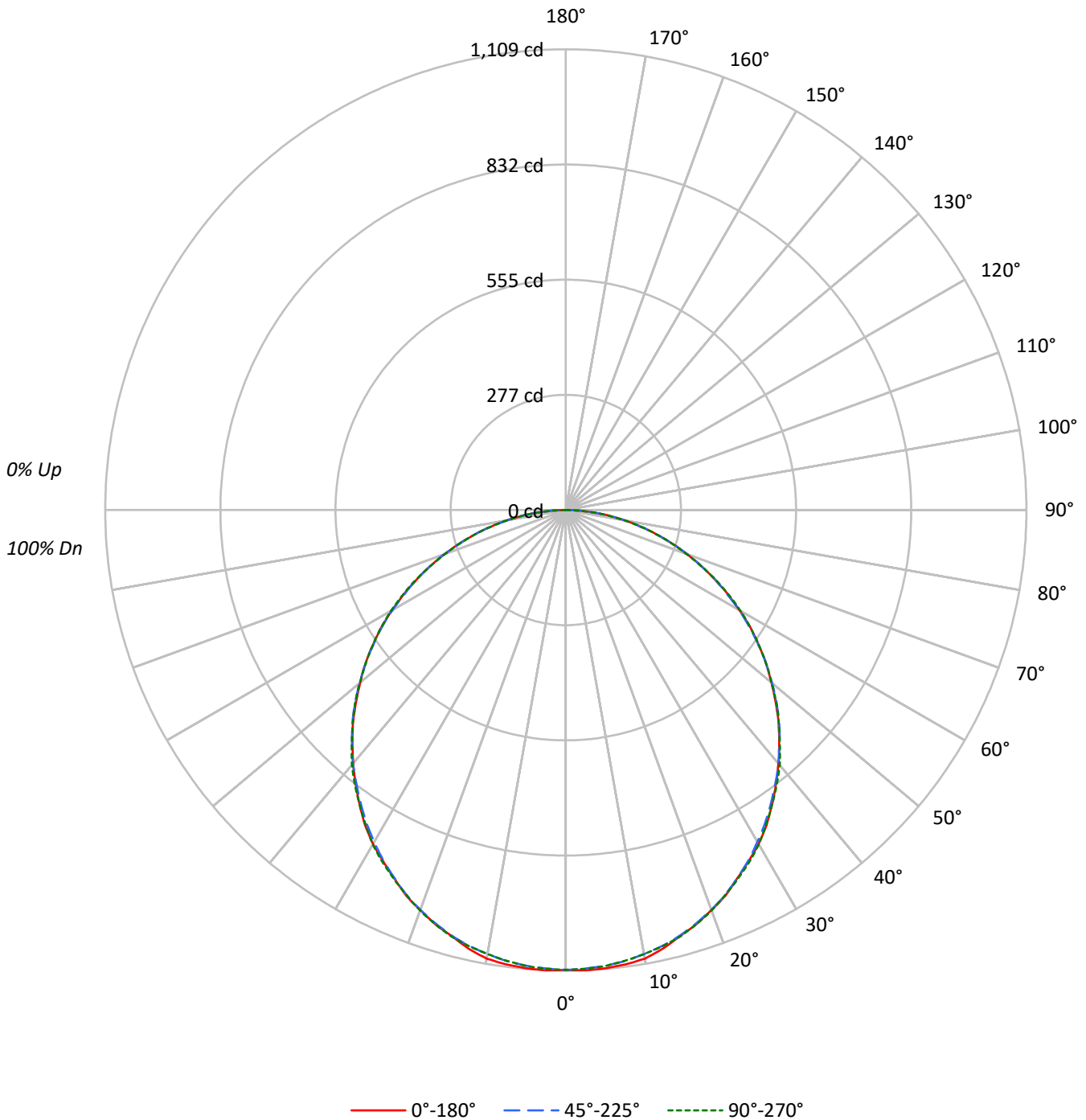
Lumens per Lamp: N/A  
Luminaire Lumens: 3167.3 lumens  
Efficiency: N/A  
Efficacy: 131.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 24.1  
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	84	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°	1489	1489	1489
5°	1495	1487	1488
10°	1498	1483	1483
15°	1479	1478	1481
20°	1467	1466	1469
25°	1451	1450	1455
30°	1443	1433	1444
35°	1422	1415	1422
40°	1399	1400	1408
45°	1379	1383	1380
50°	1353	1357	1354
55°	1332	1328	1332
60°	1301	1297	1309
65°	1260	1265	1270
70°	1220	1225	1216
75°	1176	1176	1176
80°	1111	1111	1123
85°	1027	1039	1002

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1383 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.7	3.3
10°-20°	299.2	9.4
20°-30°	450.9	14.2
30°-40°	540.1	17.1
40°-50°	559.1	17.7
50°-60°	506.9	16.0
60°-70°	393.0	12.4
70°-80°	239.0	7.5
80°-90°	74.4	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°	854.8	27.0
0°-40°	1394.9	44.0
0°-60°	2460.9	77.7
0°-90°	3167.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3167.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1107	1107	1107	1107	1107	
5°	1107	1100	1101	1100	1102	105
15°	1062	1062	1061	1057	1063	300
25°	978	978	977	980	980	451
35°	866	860	861	865	866	542
45°	725	726	727	724	725	558
55°	568	565	566	568	568	507
65°	396	398	397	396	399	393
75°	226	226	226	226	226	239
85°	66	66	67	66	65	74
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1107.0	1107.0	1107.0	1107.0	1107.0
2.5°	1109.2	1104.7	1104.7	1103.3	1105.5
5°	1107.0	1100.3	1101.1	1099.5	1101.7
7.5°	1103.3	1094.3	1095.1	1093.5	1094.3
10°	1096.5	1086.1	1085.3	1084.6	1085.3
12.5°	1081.6	1075.6	1074.8	1073.4	1075.6
15°	1061.5	1062.1	1060.7	1056.9	1062.9
17.5°	1045.7	1045.0	1043.5	1039.8	1045.7
20°	1024.8	1025.6	1024.1	1022.6	1026.3
22.5°	1004.7	1002.4	1003.1	1002.4	1003.1
25°	977.7	977.7	977.0	980.0	980.0
27.5°	953.2	950.2	951.6	954.6	956.1
30°	928.5	920.9	922.5	925.5	929.3
32.5°	899.4	891.9	893.3	896.3	897.8
35°	865.8	859.8	861.2	865.0	865.8
37.5°	831.3	827.6	829.1	832.1	834.3
40°	796.3	794.7	796.9	796.3	801.5
42.5°	760.4	759.7	761.9	761.9	762.7
45°	724.6	726.0	726.8	723.8	725.3
47.5°	685.0	685.6	688.6	687.2	688.0
50°	646.2	645.4	648.4	649.2	646.8
52.5°	608.8	605.0	608.0	609.6	608.0
55°	567.7	564.7	566.2	568.4	567.7
57.5°	527.4	524.4	525.1	528.8	527.4
60°	483.3	482.6	481.8	484.8	486.3
62.5°	440.0	439.2	437.7	440.7	442.2
65°	395.9	398.1	397.4	395.9	398.9
67.5°	354.0	356.3	354.0	352.6	352.6
70°	310.0	312.2	311.5	310.0	309.2
72.5°	268.9	268.9	267.4	266.6	267.4
75°	226.3	225.6	226.3	225.6	226.3
77.5°	184.5	185.3	185.3	185.3	184.5
80°	143.4	143.4	143.4	144.1	144.9
82.5°	105.3	103.1	105.3	103.9	104.5
85°	66.5	65.7	67.3	66.5	64.9
87.5°	29.9	30.6	30.6	31.4	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)