

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: P798231

Luminaire Tested: 22GRSCT3-FGW080-UNV-MID-3000K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798231  
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-MID-3000K  
Description: GRLED Selectable  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

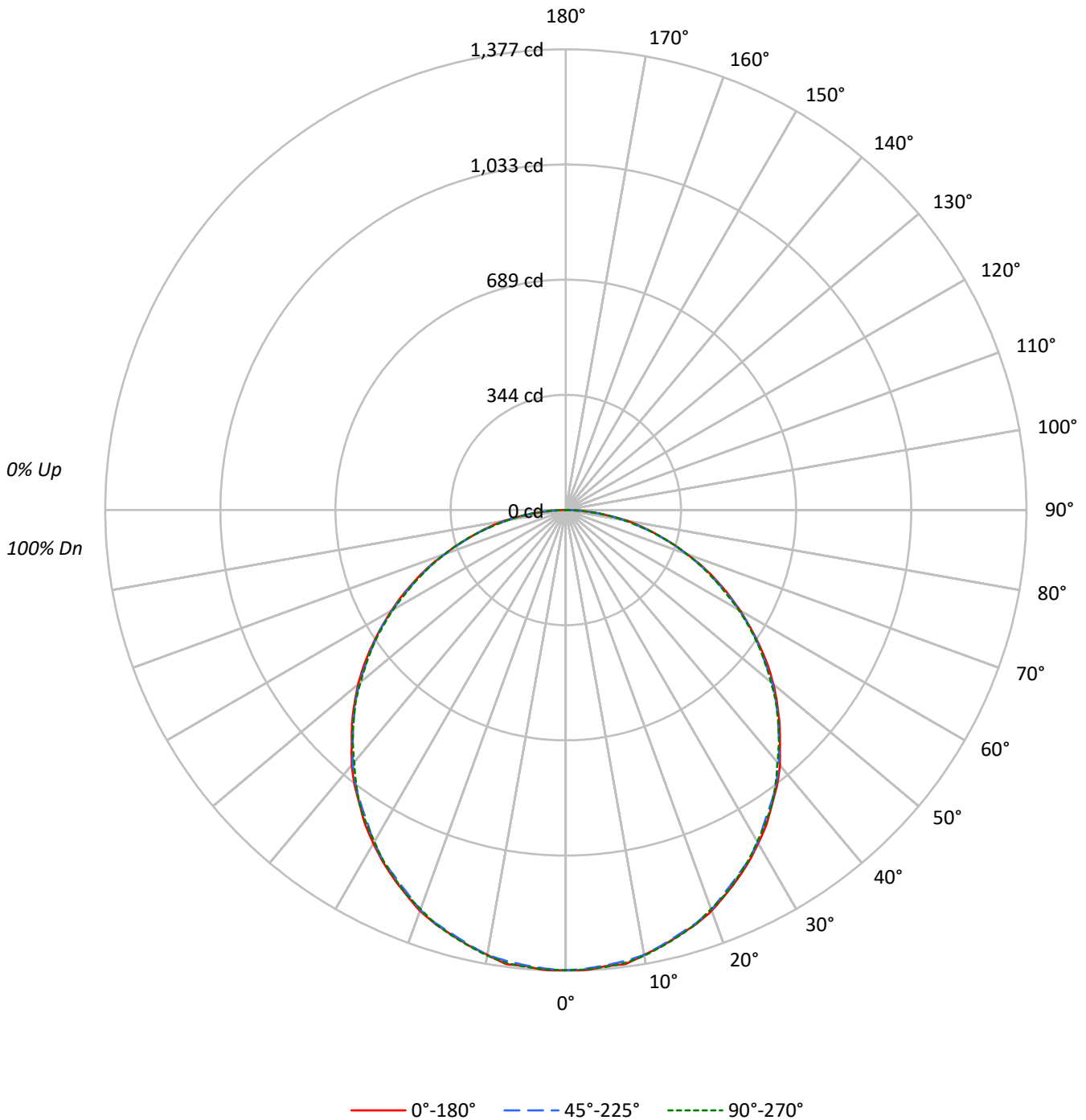
Lumens per Lamp: N/A  
Luminaire Lumens: 3929.9 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.1  
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	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°	3702	3702	3702
5°	3697	3690	3703
10°	3689	3689	3695
15°	3665	3655	3668
20°	3652	3642	3635
25°	3611	3591	3601
30°	3575	3564	3557
35°	3529	3514	3529
40°	3498	3482	3458
45°	3439	3416	3416
50°	3392	3372	3352
55°	3318	3297	3292
60°	3242	3224	3210
65°	3159	3123	3109
70°	3032	3024	3032
75°	2927	2890	2916
80°	2898	2752	2737
85°	2566	2492	2529

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3439 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.1	3.3
10°-20°	371.3	9.4
20°-30°	559.1	14.2
30°-40°	670.9	17.1
40°-50°	694.2	17.7
50°-60°	629.1	16.0
60°-70°	487.6	12.4
70°-80°	296.0	7.5
80°-90°	91.6	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°	1060.5	27.0
0°-40°	1731.4	44.1
0°-60°	3054.6	77.7
0°-90°	3929.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3929.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1376	1376	1376	1376	1376	
5°	1369	1369	1366	1370	1371	130
15°	1315	1315	1312	1318	1317	372
25°	1216	1214	1209	1214	1213	561
35°	1074	1074	1070	1071	1074	674
45°	904	902	898	898	898	697
55°	707	706	703	702	702	633
65°	496	496	490	493	488	491
75°	282	280	278	278	280	300
85°	83	82	81	81	82	94
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1375.6	1375.6	1375.6	1375.6	1375.6
2.5°	1376.6	1370.9	1372.1	1374.4	1374.4
5°	1368.7	1368.7	1366.2	1369.7	1370.9
7.5°	1368.7	1362.8	1359.3	1362.8	1365.2
10°	1350.2	1347.7	1350.2	1349.0	1352.4
12.5°	1333.9	1331.7	1331.7	1335.1	1335.1
15°	1315.4	1315.4	1311.9	1317.9	1316.6
17.5°	1297.1	1297.1	1294.7	1294.7	1297.1
20°	1275.2	1269.3	1271.7	1270.5	1269.3
22.5°	1245.1	1241.6	1239.4	1242.9	1243.9
25°	1216.2	1214.0	1209.3	1214.0	1212.8
27.5°	1185.1	1182.7	1181.7	1179.2	1181.7
30°	1150.6	1148.1	1146.9	1144.7	1144.7
32.5°	1115.8	1111.1	1105.5	1111.1	1110.1
35°	1074.4	1074.4	1069.7	1070.9	1074.4
37.5°	1037.4	1035.2	1032.7	1029.2	1030.5
40°	995.9	992.5	991.2	989.0	984.3
42.5°	947.3	947.3	942.9	943.9	942.9
45°	903.7	902.4	897.7	897.7	897.7
47.5°	857.3	856.3	852.8	850.4	852.8
50°	810.2	805.5	805.5	802.0	800.8
52.5°	760.6	756.9	752.4	753.4	751.2
55°	707.3	706.3	702.8	701.6	701.6
57.5°	654.2	655.5	653.0	648.6	649.6
60°	602.4	601.2	599.0	596.5	596.5
62.5°	549.4	549.4	544.7	544.7	540.0
65°	496.1	496.1	490.4	492.7	488.2
67.5°	443.1	442.1	438.4	437.4	438.4
70°	385.3	386.6	384.4	384.4	385.3
72.5°	333.5	332.3	331.1	331.1	333.5
75°	281.5	280.5	278.0	278.0	280.5
77.5°	234.4	228.4	227.2	229.7	226.2
80°	187.0	178.9	177.6	176.6	176.6
82.5°	131.5	128.0	129.3	128.0	130.5
85°	83.1	81.9	80.7	80.7	81.9
87.5°	39.2	37.0	37.0	35.8	35.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)