

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: P798287

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

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798287  
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-MID-4000K  
Description: GRLED Selectable  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

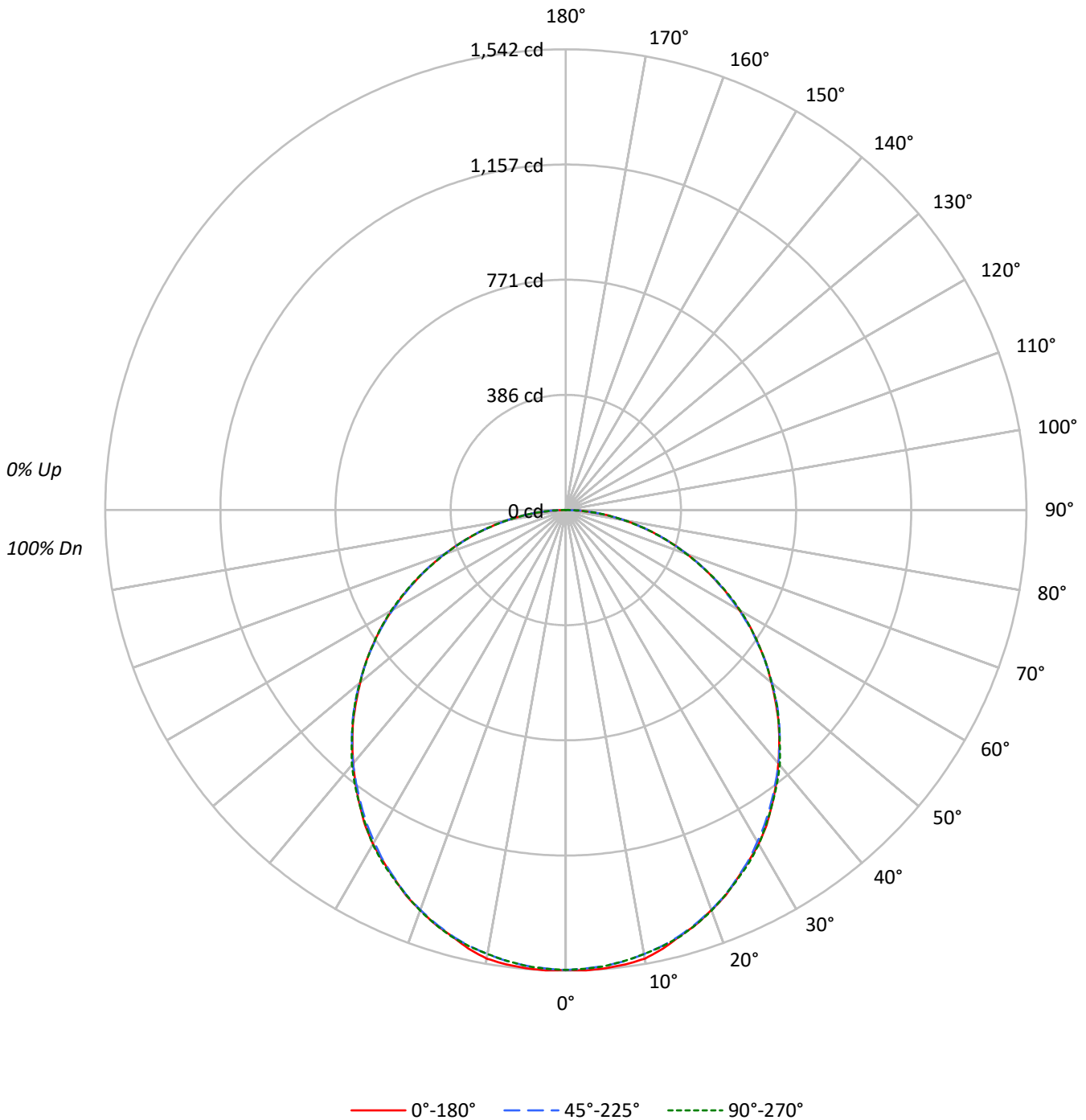
Lumens per Lamp: N/A  
Luminaire Lumens: 4404.0 lumens  
Efficiency: N/A  
Efficacy: 128.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 34.2  
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	84	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°	2071	2071	2071
5°	2079	2068	2069
10°	2083	2062	2062
15°	2056	2054	2059
20°	2040	2039	2043
25°	2018	2017	2023
30°	2006	1993	2007
35°	1977	1967	1977
40°	1945	1946	1957
45°	1917	1923	1919
50°	1881	1887	1883
55°	1852	1847	1852
60°	1809	1803	1820
65°	1753	1759	1766
70°	1696	1704	1691
75°	1636	1636	1636
80°	1544	1544	1561
85°	1426	1443	1394

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1923 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.5	3.3
10°-20°	416.1	9.4
20°-30°	627.0	14.2
30°-40°	751.0	17.1
40°-50°	777.4	17.7
50°-60°	704.9	16.0
60°-70°	546.5	12.4
70°-80°	332.3	7.5
80°-90°	103.4	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°	1188.6	27.0
0°-40°	1939.6	44.0
0°-60°	3421.8	77.7
0°-90°	4404.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4404.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1539	1539	1539	1539	1539	
5°	1539	1530	1531	1529	1532	146
15°	1476	1477	1475	1470	1478	417
25°	1360	1360	1359	1363	1363	628
35°	1204	1196	1198	1203	1204	753
45°	1008	1010	1011	1006	1008	776
55°	789	785	787	790	789	706
65°	550	554	552	550	555	546
75°	315	314	315	314	315	332
85°	92	91	94	92	90	103
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1539.3	1539.3	1539.3	1539.3	1539.3
2.5°	1542.4	1536.1	1536.1	1534.1	1537.1
5°	1539.3	1529.9	1531.0	1528.8	1531.9
7.5°	1534.1	1521.6	1522.7	1520.5	1521.6
10°	1524.7	1510.2	1509.2	1508.1	1509.2
12.5°	1503.9	1495.6	1494.5	1492.5	1495.6
15°	1475.9	1476.8	1474.8	1469.6	1477.9
17.5°	1454.1	1453.0	1451.0	1445.8	1454.1
20°	1425.0	1426.1	1423.9	1421.9	1427.0
22.5°	1397.0	1393.8	1394.9	1393.8	1394.9
25°	1359.5	1359.5	1358.6	1362.7	1362.7
27.5°	1325.3	1321.2	1323.2	1327.3	1329.5
30°	1291.0	1280.6	1282.7	1286.9	1292.1
32.5°	1250.6	1240.1	1242.1	1246.3	1248.4
35°	1203.8	1195.5	1197.5	1202.7	1203.8
37.5°	1156.0	1150.7	1152.9	1157.1	1160.1
40°	1107.2	1105.0	1108.1	1107.2	1114.4
42.5°	1057.4	1056.3	1059.4	1059.4	1060.5
45°	1007.5	1009.5	1010.6	1006.5	1008.4
47.5°	952.5	953.4	957.5	955.5	956.6
50°	898.5	897.4	901.6	902.6	899.4
52.5°	846.5	841.2	845.4	847.6	845.4
55°	789.4	785.3	787.3	790.3	789.4
57.5°	733.3	729.1	730.2	735.3	733.3
60°	672.1	671.0	669.9	674.0	676.2
62.5°	611.7	610.7	608.7	612.8	614.8
65°	550.5	553.6	552.5	550.5	554.7
67.5°	492.2	495.5	492.2	490.2	490.2
70°	431.0	434.1	433.2	431.0	429.9
72.5°	373.9	373.9	371.8	370.7	371.8
75°	314.7	313.6	314.7	313.6	314.7
77.5°	256.6	257.7	257.7	257.7	256.6
80°	199.3	199.3	199.3	200.4	201.5
82.5°	146.4	143.4	146.4	144.5	145.4
85°	92.4	91.4	93.5	92.4	90.3
87.5°	41.5	42.6	42.6	43.7	43.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)