

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: P798240

Luminaire Tested: 24GRSCT3-A-UNV-MID-3000K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798240  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-322-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 24GRSCT3-A-UNV-MID-3000K  
Description: GRLED Selectable  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

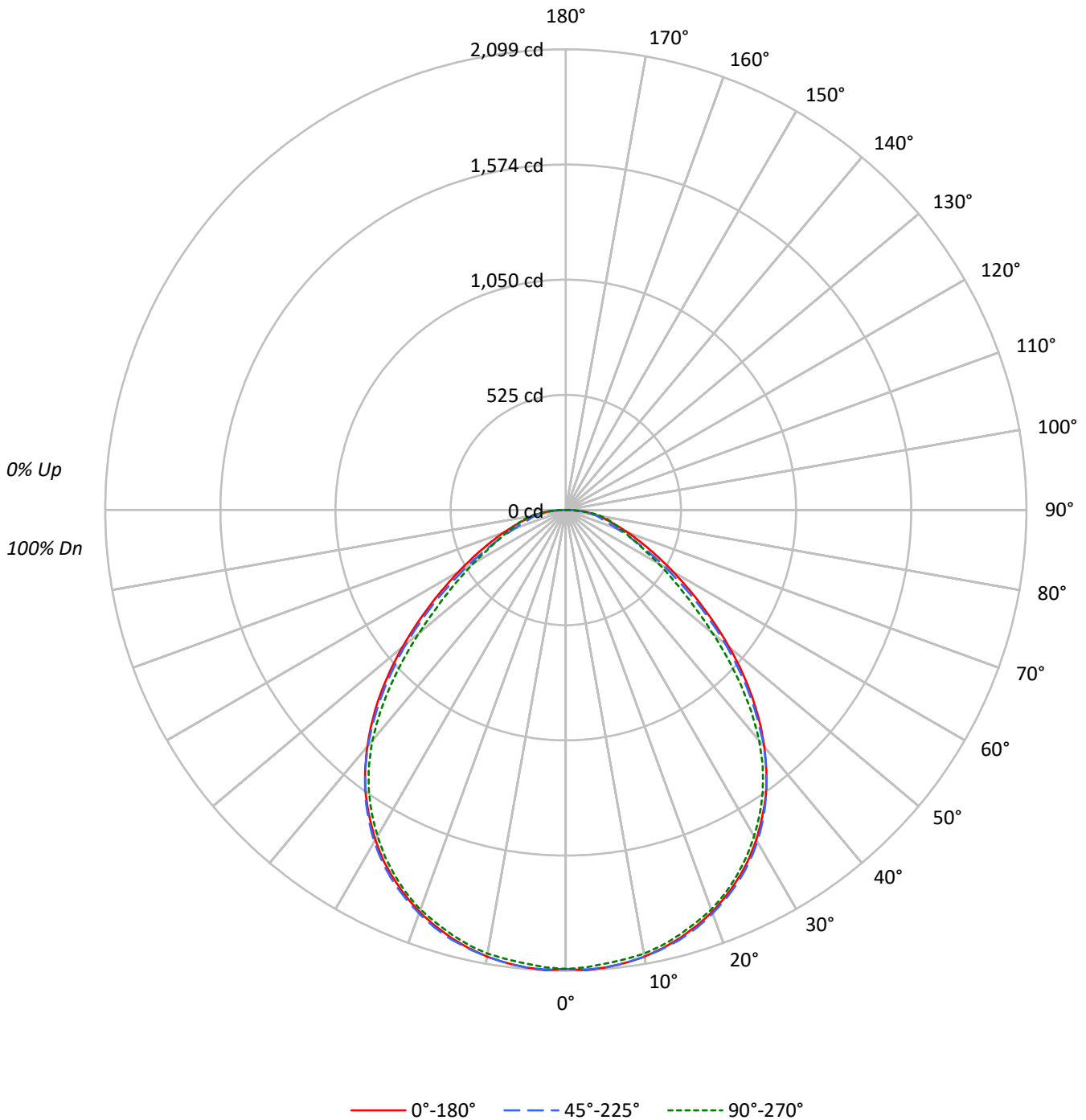
Lumens per Lamp: N/A  
Luminaire Lumens: 4830.0 lumens  
Efficiency: N/A  
Efficacy: 140.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.22 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 34.4  
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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	88	88	88	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	76	76	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	66	66	66	64
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	57	57	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	51	51	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	46	55	49	45	45	45	45	43
7	68	56	47	41	67	55	47	41	53	46	41	52	45	41	51	45	40	40	40	40	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	37	37	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	33	33	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	30	30	30	29

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

	0°	45°	90°
0°	2813	2813	2813
5°	2825	2826	2802
10°	2822	2823	2804
15°	2810	2820	2790
20°	2791	2801	2774
25°	2754	2769	2732
30°	2696	2712	2665
35°	2609	2615	2569
40°	2472	2465	2408
45°	2282	2247	2146
50°	2034	1988	1826
55°	1765	1691	1533
60°	1524	1411	1310
65°	1324	1166	1138
70°	1185	979	1081
75°	1106	937	1136
80°	1168	1070	1276
85°	1254	1209	1345

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2282 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.4	4.1
10°-20°	568.8	11.8
20°-30°	854.0	17.7
30°-40°	985.7	20.4
40°-50°	897.9	18.6
50°-60°	638.0	13.2
60°-70°	381.4	7.9
70°-80°	218.8	4.5
80°-90°	87.0	1.8
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°	1621.2	33.6
0°-40°	2606.9	54.0
0°-60°	4142.8	85.8
0°-90°	4830.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4830.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2091	2091	2091	2091	2091	
5°	2092	2102	2092	2071	2074	199
15°	2018	2031	2024	2000	2003	569
25°	1855	1871	1866	1843	1840	854
35°	1589	1597	1592	1565	1564	990
45°	1199	1196	1181	1134	1128	921
55°	753	750	721	660	654	677
65°	416	395	366	363	357	418
75°	213	206	180	216	219	230
85°	81	79	78	91	87	87
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2090.8	2090.8	2090.8	2090.8	2090.8
2.5°	2098.9	2104.8	2095.2	2074.5	2085.6
5°	2091.5	2101.8	2092.2	2070.8	2074.5
7.5°	2081.2	2091.5	2081.2	2059.7	2064.2
10°	2065.7	2076.7	2066.4	2047.9	2052.4
12.5°	2044.2	2056.1	2047.2	2028.7	2031.7
15°	2017.6	2030.9	2024.3	1999.9	2002.9
17.5°	1985.2	2000.7	1993.3	1968.9	1971.1
20°	1949.0	1963.0	1956.3	1934.9	1937.1
22.5°	1904.7	1920.2	1913.5	1894.3	1892.8
25°	1855.2	1870.7	1865.5	1842.6	1840.4
27.5°	1799.8	1813.1	1809.4	1784.3	1782.1
30°	1735.5	1748.8	1745.9	1720.0	1715.6
32.5°	1663.9	1676.4	1672.8	1648.4	1644.7
35°	1588.6	1596.7	1592.3	1564.9	1564.2
37.5°	1502.2	1506.6	1502.9	1474.1	1474.1
40°	1407.6	1410.6	1403.2	1372.2	1370.7
42.5°	1306.4	1307.2	1293.9	1258.4	1253.3
45°	1199.4	1195.7	1180.9	1133.6	1127.7
47.5°	1086.4	1077.5	1065.0	1008.8	999.2
50°	971.9	963.0	949.7	882.5	872.2
52.5°	858.9	852.3	833.1	763.6	755.5
55°	752.6	750.3	720.8	659.5	653.6
57.5°	654.3	648.4	617.4	568.7	565.0
60°	566.4	553.2	524.4	490.4	486.7
62.5°	486.7	468.2	440.9	421.7	415.1
65°	415.8	395.1	366.3	363.4	357.4
67.5°	354.5	333.1	302.1	316.1	310.9
70°	301.3	282.1	248.9	279.9	274.7
72.5°	253.3	240.8	209.7	246.7	244.5
75°	212.7	206.0	180.2	216.4	218.6
77.5°	178.7	174.3	158.8	185.4	193.5
80°	150.7	142.5	138.1	157.3	164.7
82.5°	118.2	111.5	111.5	125.5	130.0
85°	81.2	79.0	78.3	90.8	87.1
87.5°	43.6	43.6	42.1	46.5	42.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)