

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: P798239

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

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798239  
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-LOW-4000K  
Description: GRLED Selectable  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

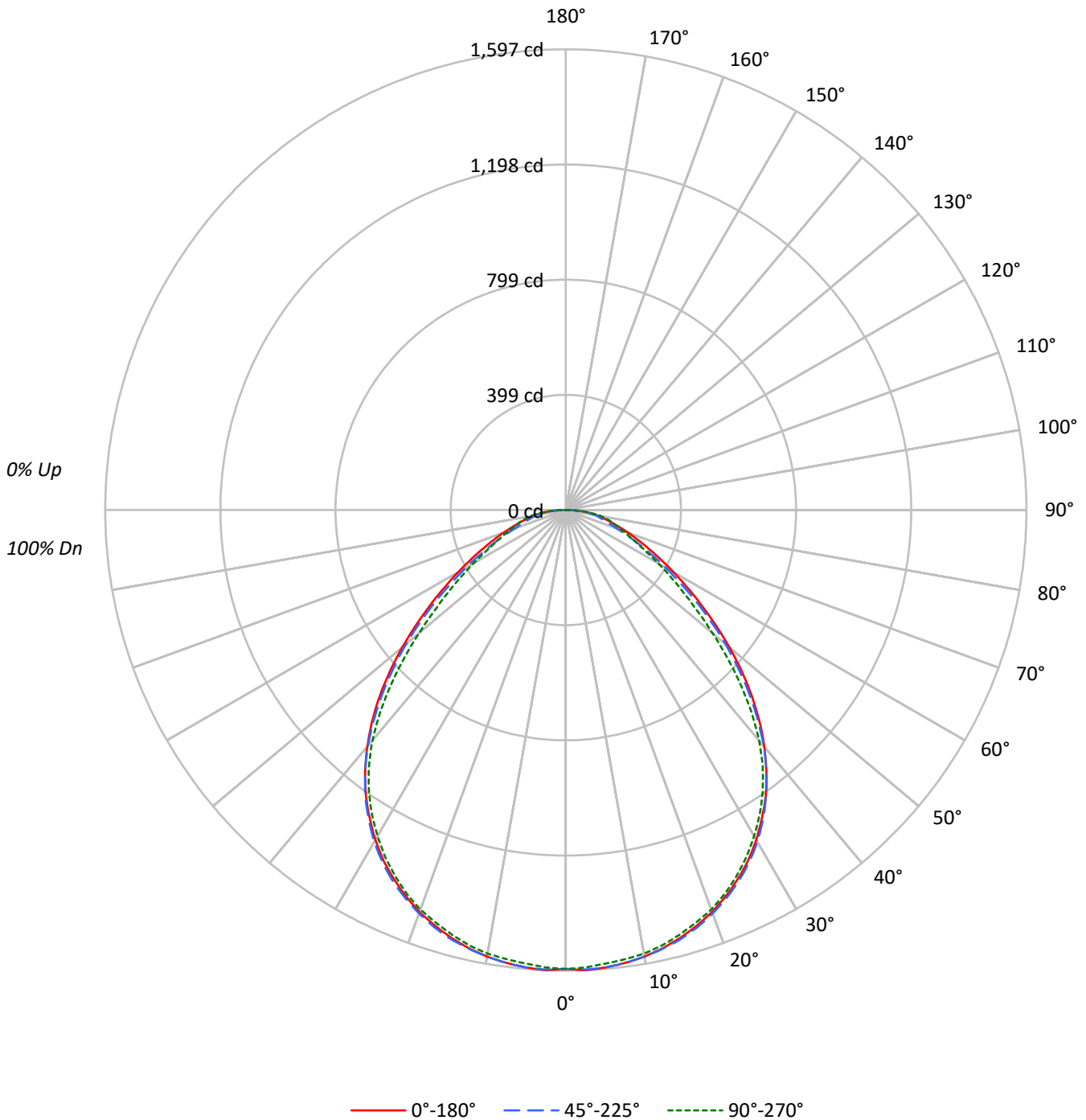
Lumens per Lamp: N/A  
Luminaire Lumens: 3675.0 lumens  
Efficiency: N/A  
Efficacy: 152.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.22 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	2140	2140	2140
5°	2149	2150	2132
10°	2147	2148	2134
15°	2138	2145	2123
20°	2123	2131	2110
25°	2095	2107	2079
30°	2052	2064	2028
35°	1985	1990	1955
40°	1881	1875	1832
45°	1737	1710	1633
50°	1548	1513	1389
55°	1343	1286	1167
60°	1160	1074	996
65°	1007	887	866
70°	902	745	822
75°	841	713	865
80°	888	814	971
85°	954	920	1024

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1737 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.9	4.1
10°-20°	432.8	11.8
20°-30°	649.8	17.7
30°-40°	750.0	20.4
40°-50°	683.2	18.6
50°-60°	485.4	13.2
60°-70°	290.2	7.9
70°-80°	166.5	4.5
80°-90°	66.2	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°	1233.5	33.6
0°-40°	1983.5	54.0
0°-60°	3152.1	85.8
0°-90°	3675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3675.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1591	1591	1591	1591	1591	
5°	1591	1599	1592	1576	1578	151
15°	1535	1545	1540	1522	1524	433
25°	1412	1423	1419	1402	1400	650
35°	1209	1215	1212	1191	1190	753
45°	913	910	898	862	858	701
55°	573	571	548	502	497	515
65°	316	301	279	276	272	318
75°	162	157	137	165	166	175
85°	62	60	60	69	66	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1590.8	1590.8	1590.8	1590.8	1590.8
2.5°	1597.0	1601.5	1594.2	1578.4	1586.9
5°	1591.4	1599.2	1591.9	1575.6	1578.4
7.5°	1583.5	1591.4	1583.5	1567.2	1570.6
10°	1571.7	1580.1	1572.3	1558.2	1561.6
12.5°	1555.4	1564.4	1557.6	1543.6	1545.8
15°	1535.2	1545.3	1540.2	1521.7	1523.9
17.5°	1510.4	1522.2	1516.6	1498.1	1499.8
20°	1482.9	1493.6	1488.5	1472.2	1473.9
22.5°	1449.2	1461.0	1455.9	1441.3	1440.2
25°	1411.5	1423.3	1419.4	1402.0	1400.3
27.5°	1369.4	1379.5	1376.7	1357.6	1355.9
30°	1320.5	1330.6	1328.4	1308.7	1305.3
32.5°	1266.0	1275.6	1272.7	1254.2	1251.4
35°	1208.7	1214.9	1211.5	1190.7	1190.1
37.5°	1142.9	1146.3	1143.5	1121.6	1121.6
40°	1071.0	1073.3	1067.6	1044.0	1042.9
42.5°	994.0	994.6	984.5	957.5	953.6
45°	912.6	909.7	898.5	862.5	858.1
47.5°	826.6	819.8	810.3	767.6	760.3
50°	739.5	732.7	722.6	671.5	663.6
52.5°	653.5	648.5	633.8	581.0	574.8
55°	572.6	570.9	548.4	501.8	497.3
57.5°	497.9	493.4	469.8	432.7	429.9
60°	431.0	420.9	399.0	373.1	370.3
62.5°	370.3	356.3	335.5	320.9	315.8
65°	316.4	300.6	278.7	276.5	272.0
67.5°	269.7	253.4	229.8	240.5	236.6
70°	229.3	214.7	189.4	213.0	209.0
72.5°	192.7	183.2	159.6	187.7	186.0
75°	161.8	156.8	137.1	164.6	166.3
77.5°	136.0	132.6	120.8	141.0	147.2
80°	114.6	108.5	105.1	119.7	125.3
82.5°	89.9	84.8	84.8	95.5	98.9
85°	61.8	60.1	59.6	69.1	66.3
87.5°	33.2	33.2	32.0	35.4	32.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)