

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P1053674

Luminaire Tested: 24CGTS-L3C3-4000K-LOW

Issue Date: 7/22/2025

Test Information

Test Method: LM-79-2019
Report Number: P1053674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2412-301-11)
Test Lab: INNOVATION CENTER
Issue Date: 7/22/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CGTS-L3C3-4000K-LOW
Description: 2x4 Selectable Lumens and CCT LED Backlit Panel at 4000K CCT and LOW lumen settings
Light Source: -
Ballast/Driver: -

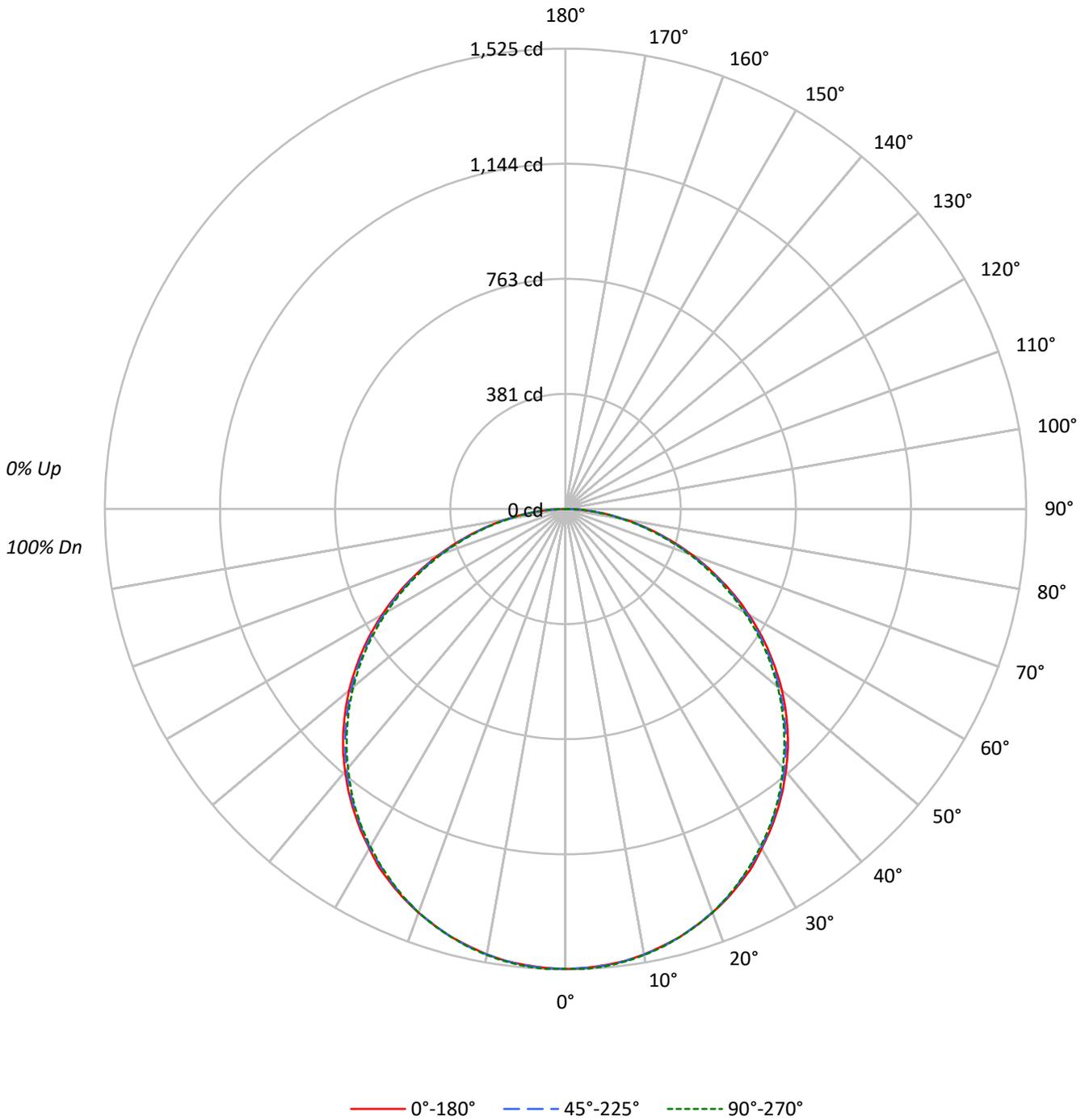
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4461.0 lumens
Efficiency: N/A
Efficacy: 154.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.81' x L: 3.81' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P1053674
CATALOG NUMBER: 24CGTS-L3C3-4000K-LOW

Luminous Intensity Polar Plot





TEST NUMBER: P1053674

CATALOG NUMBER: 24CGTS-L3C3-4000K-LOW

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	104	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	70	64	87	77	69	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	63	57	52	61	56	51	51	51	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	45	45	45	42
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	39	39	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	35	35	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	31	31	31	29
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	28	28	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	25	25	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2373	2373	2373
5°	2371	2374	2378
10°	2370	2370	2373
15°	2365	2365	2365
20°	2358	2357	2358
25°	2351	2344	2340
30°	2336	2330	2322
35°	2323	2311	2305
40°	2307	2292	2277
45°	2291	2268	2252
50°	2268	2240	2222
55°	2230	2207	2185
60°	2185	2156	2129
65°	2120	2093	2066
70°	2040	2007	1983
75°	1937	1898	1867
80°	1782	1745	1717
85°	1616	1578	1541

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2291 cd/sqm



TEST NUMBER: P1053674
 CATALOG NUMBER: 24CGTS-L3C3-4000K-LOW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.5	3.2
10°-20°	414.4	9.3
20°-30°	629.1	14.1
30°-40°	760.7	17.1
40°-50°	794.0	17.8
50°-60°	724.9	16.2
60°-70°	560.8	12.6
70°-80°	333.0	7.5
80°-90°	99.7	2.2
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°	1187.9	26.6
0°-40°	1948.6	43.7
0°-60°	3467.5	77.7
0°-90°	4461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4461.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1524	1524	1524	1524	1524	
5°	1516	1522	1518	1520	1520	144
15°	1467	1469	1467	1470	1467	414
25°	1368	1366	1364	1364	1362	631
35°	1222	1219	1216	1211	1212	764
45°	1040	1034	1029	1023	1022	802
55°	821	815	813	808	804	734
65°	575	569	568	563	560	569
75°	322	315	315	310	310	340
85°	90	87	88	89	86	102
90°	0	0	0	0	0	



TEST NUMBER: P1053674

CATALOG NUMBER: 24CGTS-L3C3-4000K-LOW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1523.6	1523.6	1523.6	1523.6	1523.6
2.5°	1521.5	1524.7	1521.5	1525.7	1524.7
5°	1516.3	1521.5	1518.4	1520.5	1520.5
7.5°	1509.9	1512.1	1509.9	1514.2	1512.1
10°	1498.4	1502.6	1498.4	1503.6	1500.5
12.5°	1482.6	1486.8	1484.7	1487.9	1485.8
15°	1466.8	1468.9	1466.8	1470.0	1466.8
17.5°	1445.8	1447.9	1444.8	1447.9	1446.9
20°	1422.7	1424.8	1421.6	1423.7	1422.7
22.5°	1397.4	1399.5	1394.3	1395.3	1394.3
25°	1368.0	1365.9	1363.8	1363.8	1361.7
27.5°	1337.5	1334.3	1330.1	1330.1	1328.0
30°	1298.6	1298.6	1295.4	1292.3	1291.2
32.5°	1261.8	1259.7	1256.5	1255.5	1253.4
35°	1221.8	1218.7	1215.5	1211.3	1212.4
37.5°	1179.8	1175.6	1173.5	1168.2	1167.2
40°	1134.6	1131.4	1127.2	1120.9	1119.8
42.5°	1089.3	1084.1	1079.9	1073.6	1072.5
45°	1039.9	1033.6	1029.4	1023.1	1022.1
47.5°	988.4	981.0	977.9	972.6	970.5
50°	935.8	927.4	924.3	918.0	916.9
52.5°	879.1	872.7	869.6	862.2	861.2
55°	821.2	814.9	812.8	807.5	804.4
57.5°	762.3	756.0	752.9	747.6	744.5
60°	701.3	695.0	691.9	685.6	683.5
62.5°	639.3	631.9	630.9	625.6	623.5
65°	575.2	568.9	567.8	562.6	560.4
67.5°	512.1	505.8	504.7	500.5	498.4
70°	447.9	440.6	440.6	436.4	435.3
72.5°	384.8	377.5	377.5	373.3	372.2
75°	321.8	315.4	315.4	310.2	310.2
77.5°	259.7	254.5	255.5	253.4	250.3
80°	198.7	194.5	194.5	193.5	191.4
82.5°	143.0	138.8	139.8	140.9	136.7
85°	90.4	87.3	88.3	89.4	86.2
87.5°	42.1	38.9	41.0	43.1	41.0
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1053674
 CATALOG NUMBER: 24CGTS-L3C3-4000K-LOW

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.97	16.63	15.34	16.94	17.26	14.88	16.53	15.24	16.85	17.16
	3H	16.86	18.36	17.23	18.69	19.05	16.75	18.25	17.12	18.57	18.93
	4H	17.59	19.00	17.99	19.35	19.73	17.46	18.88	17.86	19.22	19.60
	6H	18.14	19.46	18.55	19.82	20.21	18.00	19.32	18.42	19.68	20.07
	8H	18.33	19.59	18.76	19.98	20.38	18.19	19.44	18.61	19.83	20.23
	12H	18.47	19.67	18.90	20.05	20.48	18.32	19.52	18.75	19.90	20.33
4H	2H	15.62	17.04	16.02	17.38	17.76	15.55	16.96	15.95	17.31	17.69
	3H	17.73	18.92	18.14	19.31	19.71	17.64	18.83	18.05	19.23	19.63
	4H	18.59	19.67	19.02	20.08	20.51	18.48	19.56	18.91	19.97	20.41
	6H	19.28	20.22	19.73	20.66	21.11	19.16	20.11	19.61	20.55	21.00
	8H	19.52	20.40	19.98	20.84	21.31	19.40	20.28	19.86	20.73	21.19
	12H	19.70	20.50	20.18	20.97	21.44	19.58	20.38	20.06	20.85	21.32
8H	4H	18.92	19.81	19.38	20.25	20.71	18.83	19.71	19.29	20.16	20.62
	6H	19.74	20.48	20.23	20.96	21.44	19.64	20.38	20.13	20.87	21.34
	8H	20.06	20.72	20.57	21.23	21.71	19.96	20.62	20.47	21.13	21.61
	12H	20.32	20.91	20.83	21.40	21.96	20.23	20.82	20.73	21.30	21.86
12H	4H	18.96	19.76	19.44	20.23	20.70	18.87	19.67	19.35	20.14	20.61
	6H	19.80	20.47	20.31	20.97	21.46	19.71	20.38	20.22	20.88	21.37
	8H	20.19	20.77	20.69	21.26	21.82	20.10	20.68	20.60	21.17	21.73