

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: P1527115

Luminaire Tested: 24CGTX-45-F125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527115
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-1)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CGTX-45-F125-L830
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

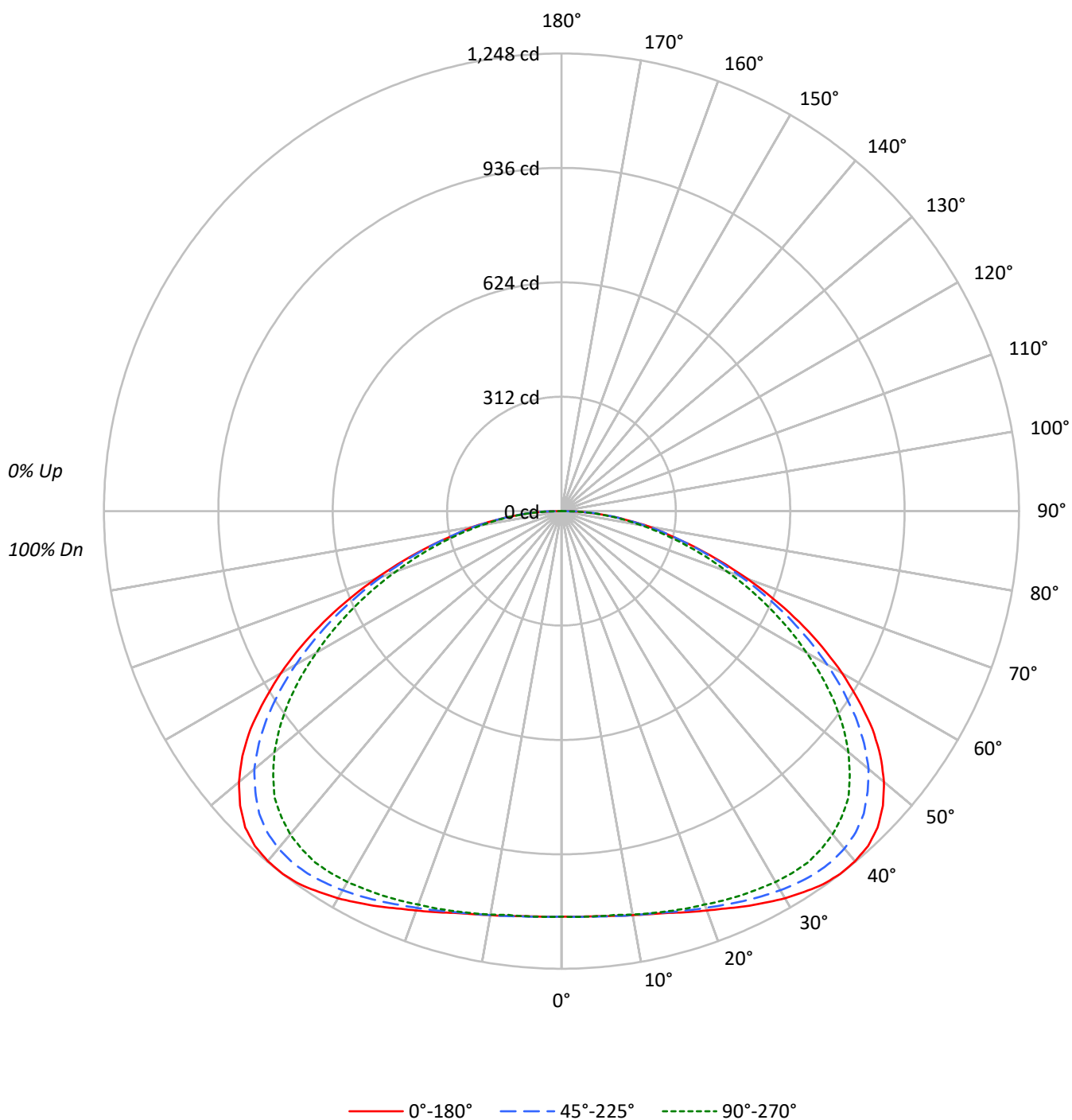
Lumens per Lamp: N/A
Luminaire Lumens: 4676.0 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35.6
Input Voltage (V):
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1527115

CATALOG NUMBER: 24CGTX-45-F125-L830

Luminous Intensity Polar Plot



TEST NUMBER: P1527115

CATALOG NUMBER: 24CGTX-45-F125-L830

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		0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102		100
1	108	102	98	94	105	100	96	92	96	92	89		92	89	86		88	86	84		82
2	97	88	81	74	94	86	79	74	83	77	72		79	74	70		76	72	69		66
3	88	76	68	61	85	75	67	60	72	65	59		69	63	58		66	61	57		54
4	80	67	57	50	77	66	57	50	63	55	49		61	54	48		58	53	48		45
5	73	59	50	43	71	58	49	42	56	48	42		54	47	41		52	46	41		39
6	67	53	43	36	65	52	43	36	50	42	36		48	41	36		47	40	35		33
7	62	47	38	32	60	47	38	32	45	37	31		44	36	31		42	36	31		29
8	57	43	34	28	56	42	34	28	41	33	28		40	33	27		38	32	27		25
9	53	39	31	25	52	39	30	25	37	30	25		36	29	24		35	29	24		22
10	50	36	28	22	48	35	27	22	34	27	22		33	27	22		33	26	22		20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1488	1488	1488
5°	1498	1499	1498
10°	1529	1529	1526
15°	1580	1577	1573
20°	1659	1649	1635
25°	1765	1742	1717
30°	1894	1855	1814
35°	2041	1982	1922
40°	2188	2110	2021
45°	2321	2219	2106
50°	2403	2289	2139
55°	2429	2297	2133
60°	2379	2252	2078
65°	2277	2168	1996
70°	2120	2050	1889
75°	1942	1929	1789
80°	1883	1845	1712
85°	1749	1825	1712

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 2429 cd/sqm

TEST NUMBER: P1527115

CATALOG NUMBER: 24CGTX-45-F125-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	2.3
10°-20°	321.7	6.9
20°-30°	543.3	11.6
30°-40°	755.8	16.2
40°-50°	894.6	19.1
50°-60°	868.0	18.6
60°-70°	668.8	14.3
70°-80°	390.2	8.3
80°-90°	127.5	2.7
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°	971.1	20.8
0°-40°	1726.9	36.9
0°-60°	3489.5	74.6
0°-90°	4676.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4676.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1106	1106	1106	1106	1106	
5°	1109	1110	1110	1110	1109	106
15°	1134	1134	1132	1129	1129	323
25°	1189	1184	1173	1161	1156	551
35°	1243	1232	1207	1182	1170	778
45°	1220	1204	1166	1126	1107	937
55°	1036	1018	979	934	909	919
65°	715	707	681	646	627	706
75°	374	382	371	354	344	400
85°	113	119	118	116	111	127
90°	0	0	0	0	0	

TEST NUMBER: P1527115

CATALOG NUMBER: 24CGTX-45-F125-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1105.8	1105.8	1105.8	1105.8	1105.8
2.5°	1106.6	1107.4	1107.4	1107.4	1107.4
5°	1109.0	1109.8	1109.8	1109.8	1109.0
7.5°	1113.1	1113.1	1113.9	1113.1	1110.7
10°	1118.8	1118.8	1118.8	1118.0	1117.2
12.5°	1125.3	1126.2	1124.5	1123.7	1122.9
15°	1134.3	1134.3	1131.9	1129.4	1129.4
17.5°	1146.5	1144.9	1141.6	1137.6	1135.9
20°	1158.8	1157.1	1151.4	1144.9	1141.6
22.5°	1172.6	1169.4	1162.0	1153.1	1149.8
25°	1188.9	1184.0	1173.4	1161.2	1156.3
27.5°	1203.6	1197.1	1184.0	1170.2	1162.0
30°	1219.1	1211.0	1193.8	1175.9	1167.7
32.5°	1231.3	1223.2	1201.2	1180.8	1170.2
35°	1242.8	1232.2	1206.9	1181.6	1170.2
37.5°	1247.7	1236.2	1206.9	1177.5	1162.8
40°	1246.0	1233.8	1201.2	1167.7	1150.6
42.5°	1237.9	1223.2	1188.1	1150.6	1131.0
45°	1219.9	1203.6	1166.1	1126.2	1106.6
47.5°	1188.9	1172.6	1132.7	1090.3	1066.6
50°	1148.2	1131.0	1093.5	1046.2	1021.8
52.5°	1096.8	1079.7	1040.5	992.4	968.8
55°	1035.6	1017.7	979.4	933.7	909.2
57.5°	960.6	947.6	910.1	866.8	843.2
60°	884.0	870.9	836.7	795.9	772.2
62.5°	801.6	791.0	760.0	721.7	701.3
65°	715.2	707.0	680.9	645.8	627.1
67.5°	627.1	623.8	600.2	570.0	553.7
70°	539.0	540.6	521.1	494.2	480.3
72.5°	453.4	459.1	443.6	421.6	411.8
75°	373.5	382.5	371.0	353.9	344.1
77.5°	299.3	311.5	301.7	288.7	280.5
80°	243.0	242.2	238.1	228.3	221.0
82.5°	174.5	177.8	175.3	169.6	165.5
85°	113.3	119.1	118.2	115.8	110.9
87.5°	56.3	62.8	63.6	62.0	59.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1527115

CATALOG NUMBER: 24CGTX-45-F125-L830

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	15.8	17.5	16.1	17.8	18.1	15.1	16.8	15.5	17.2	17.5
	3H	17.6	19.2	18.0	19.5	19.9	16.9	18.5	17.3	18.8	19.2
	4H	18.3	19.7	18.7	20.1	20.5	17.6	19.1	18.0	19.4	19.8
	6H	18.8	20.2	19.2	20.5	20.9	18.1	19.5	18.5	19.9	20.3
	8H	19.0	20.3	19.4	20.7	21.1	18.3	19.7	18.8	20.1	20.5
	12H	19.1	20.4	19.6	20.8	21.2	18.5	19.8	18.9	20.2	20.6
4H	2H	16.4	17.9	16.8	18.2	18.6	15.8	17.3	16.2	17.7	18.1
	3H	18.4	19.7	18.8	20.1	20.5	17.8	19.1	18.3	19.5	19.9
	4H	19.2	20.4	19.7	20.8	21.2	18.7	19.8	19.1	20.2	20.7
	6H	19.9	20.9	20.4	21.4	21.8	19.4	20.4	19.8	20.8	21.2
	8H	20.2	21.1	20.6	21.5	22.0	19.6	20.6	20.1	21.0	21.5
	12H	20.4	21.2	20.8	21.7	22.2	19.8	20.7	20.3	21.2	21.6
8H	4H	19.6	20.5	20.0	20.9	21.4	19.1	20.0	19.5	20.4	20.9
	6H	20.4	21.2	20.9	21.6	22.1	19.9	20.7	20.4	21.2	21.6
	8H	20.7	21.4	21.2	21.9	22.4	20.2	20.9	20.7	21.5	21.9
	12H	21.0	21.6	21.5	22.1	22.7	20.6	21.2	21.1	21.7	22.2
12H	4H	19.6	20.4	20.1	20.9	21.4	19.1	20.0	19.6	20.4	20.9
	6H	20.5	21.2	21.0	21.6	22.2	20.0	20.7	20.5	21.2	21.7
	8H	20.9	21.5	21.4	22.0	22.5	20.4	21.0	20.9	21.5	22.1















(END OF REPORT)