

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: P1527117

Luminaire Tested: 24CGTX-45-F125-L840

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527117
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-L840
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

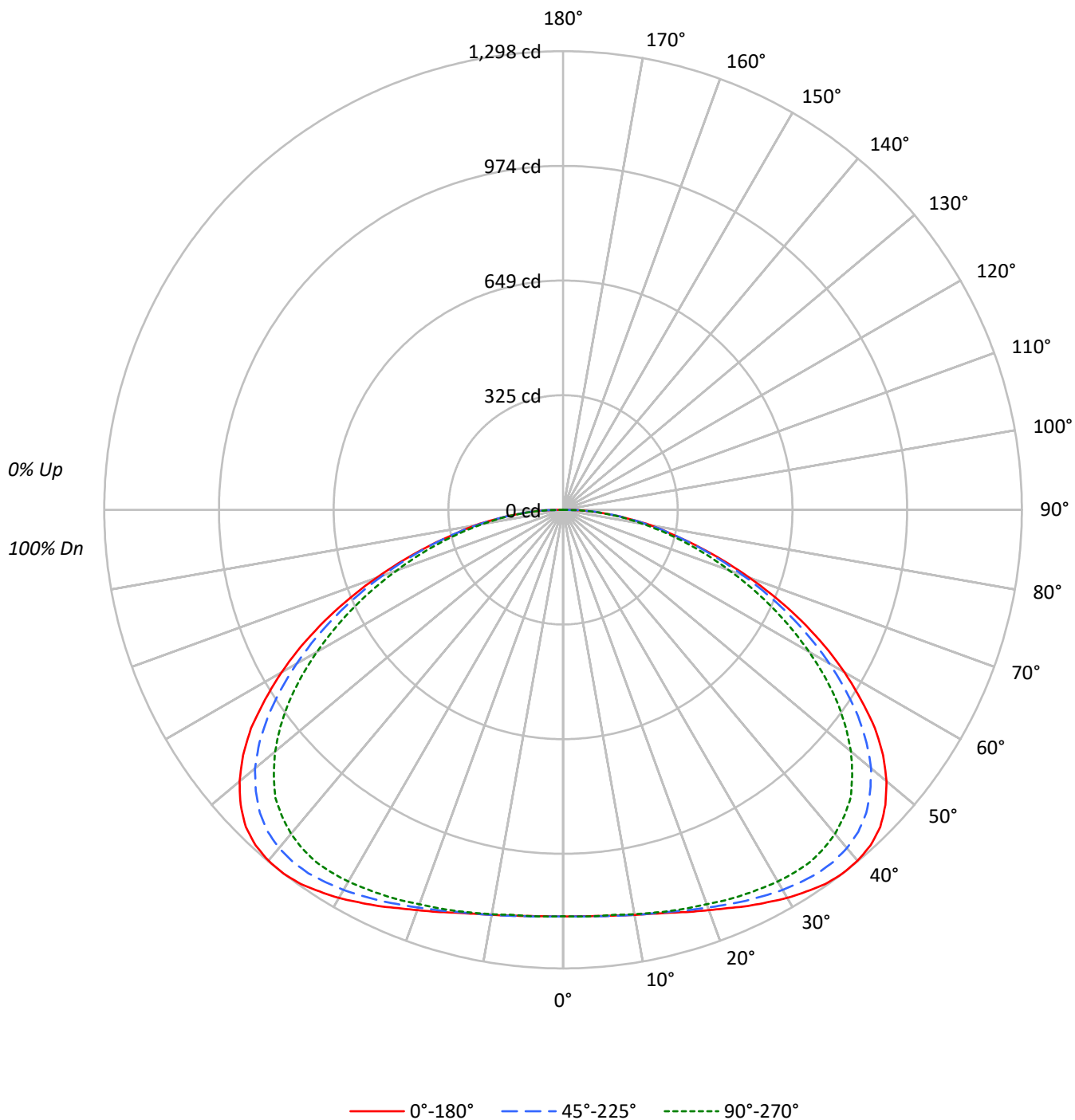
Lumens per Lamp: N/A
Luminaire Lumens: 4865.0 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P1527117

CATALOG NUMBER: 24CGTX-45-F125-L840

Luminous Intensity Polar Plot



TEST NUMBER: P1527117

CATALOG NUMBER: 24CGTX-45-F125-L840

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	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°	1548	1548	1548
5°	1558	1560	1558
10°	1590	1590	1588
15°	1644	1640	1637
20°	1726	1715	1701
25°	1836	1813	1786
30°	1971	1930	1888
35°	2124	2063	2000
40°	2277	2195	2103
45°	2415	2308	2191
50°	2501	2381	2225
55°	2528	2390	2219
60°	2475	2342	2162
65°	2369	2255	2077
70°	2206	2133	1966
75°	2020	2007	1861
80°	1959	1919	1781
85°	1820	1899	1782

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 55°
Luminance: 2528 cd/sqm

TEST NUMBER: P1527117

CATALOG NUMBER: 24CGTX-45-F125-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.5	2.3
10°-20°	334.7	6.9
20°-30°	565.3	11.6
30°-40°	786.3	16.2
40°-50°	930.8	19.1
50°-60°	903.0	18.6
60°-70°	695.8	14.3
70°-80°	406.0	8.3
80°-90°	132.7	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°	1010.4	20.8
0°-40°	1796.7	36.9
0°-60°	3630.6	74.6
0°-90°	4865.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4865.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1150	1150	1150	1150	1150	
5°	1154	1155	1155	1155	1154	110
15°	1180	1180	1178	1175	1175	336
25°	1237	1232	1221	1208	1203	573
35°	1293	1282	1256	1229	1218	810
45°	1269	1252	1213	1172	1151	975
55°	1078	1059	1019	971	946	956
65°	744	736	708	672	652	735
75°	389	398	386	368	358	416
85°	118	124	123	120	115	132
90°	0	0	0	0	0	

TEST NUMBER: P1527117

CATALOG NUMBER: 24CGTX-45-F125-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1150.5	1150.5	1150.5	1150.5	1150.5
2.5°	1151.3	1152.2	1152.2	1152.2	1152.2
5°	1153.9	1154.7	1154.7	1154.7	1153.9
7.5°	1158.1	1158.1	1158.9	1158.1	1155.5
10°	1164.0	1164.0	1164.0	1163.2	1162.3
12.5°	1170.8	1171.7	1170.0	1169.1	1168.3
15°	1180.2	1180.2	1177.6	1175.1	1175.1
17.5°	1192.9	1191.2	1187.8	1183.5	1181.8
20°	1205.6	1203.9	1198.0	1191.2	1187.8
22.5°	1220.0	1216.6	1209.0	1199.7	1196.3
25°	1237.0	1231.9	1220.9	1208.2	1203.1
27.5°	1252.3	1245.5	1231.9	1217.5	1209.0
30°	1268.4	1259.9	1242.1	1223.4	1214.9
32.5°	1281.1	1272.6	1249.7	1228.5	1217.5
35°	1293.0	1282.0	1255.7	1229.4	1217.5
37.5°	1298.1	1286.2	1255.7	1225.1	1209.8
40°	1296.4	1283.7	1249.7	1214.9	1197.1
42.5°	1287.9	1272.6	1236.1	1197.1	1176.8
45°	1269.2	1252.3	1213.2	1171.7	1151.3
47.5°	1237.0	1220.0	1178.5	1134.3	1109.7
50°	1194.6	1176.8	1137.7	1088.5	1063.1
52.5°	1141.1	1123.3	1082.6	1032.5	1007.9
55°	1077.5	1058.8	1019.0	971.4	946.0
57.5°	999.4	985.9	946.8	901.9	877.3
60°	919.7	906.1	870.5	828.1	803.5
62.5°	834.0	823.0	790.7	750.9	729.6
65°	744.1	735.6	708.4	671.9	652.4
67.5°	652.4	649.0	624.4	593.0	576.1
70°	560.8	562.5	542.1	514.1	499.7
72.5°	471.7	477.7	461.5	438.6	428.5
75°	388.6	397.9	386.0	368.2	358.0
77.5°	311.4	324.1	313.9	300.3	291.9
80°	252.8	252.0	247.7	237.6	229.9
82.5°	181.6	185.0	182.4	176.5	172.2
85°	117.9	123.9	123.0	120.5	115.4
87.5°	58.5	65.3	66.2	64.5	61.9
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1527117

CATALOG NUMBER: 24CGTX-45-F125-L840

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	15.9	17.6	16.3	18.0	18.3	15.2	17.0	15.6	17.3	17.6
	3H	17.7	19.3	18.1	19.6	20.0	17.0	18.6	17.4	18.9	19.3
	4H	18.4	19.9	18.8	20.2	20.6	17.7	19.2	18.1	19.6	19.9
	6H	18.9	20.3	19.3	20.7	21.1	18.3	19.7	18.7	20.0	20.4
	8H	19.1	20.4	19.5	20.8	21.2	18.5	19.8	18.9	20.2	20.6
	12H	19.3	20.5	19.7	20.9	21.3	18.6	19.9	19.1	20.3	20.7
4H	2H	16.5	18.0	16.9	18.3	18.7	16.0	17.5	16.4	17.8	18.2
	3H	18.6	19.8	19.0	20.2	20.6	18.0	19.2	18.4	19.6	20.0
	4H	19.4	20.5	19.8	20.9	21.4	18.8	19.9	19.2	20.4	20.8
	6H	20.0	21.1	20.5	21.5	21.9	19.5	20.5	19.9	20.9	21.4
	8H	20.3	21.2	20.8	21.7	22.1	19.8	20.7	20.2	21.1	21.6
	12H	20.5	21.4	21.0	21.8	22.3	20.0	20.8	20.5	21.3	21.8
8H	4H	19.7	20.6	20.1	21.1	21.5	19.2	20.1	19.6	20.6	21.0
	6H	20.5	21.3	21.0	21.8	22.3	20.0	20.8	20.5	21.3	21.8
	8H	20.9	21.6	21.4	22.1	22.5	20.4	21.1	20.9	21.6	22.1
	12H	21.2	21.8	21.7	22.3	22.8	20.7	21.3	21.2	21.8	22.4
12H	4H	19.7	20.6	20.2	21.1	21.5	19.3	20.1	19.7	20.6	21.0
	6H	20.6	21.3	21.1	21.8	22.3	20.1	20.8	20.6	21.3	21.8
	8H	21.0	21.6	21.5	22.1	22.7	20.5	21.2	21.0	21.7	22.2















(END OF REPORT)