

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: P1527072

Luminaire Tested: 24CGTX-20-F125-L835

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527072
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-20-F125-L835
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

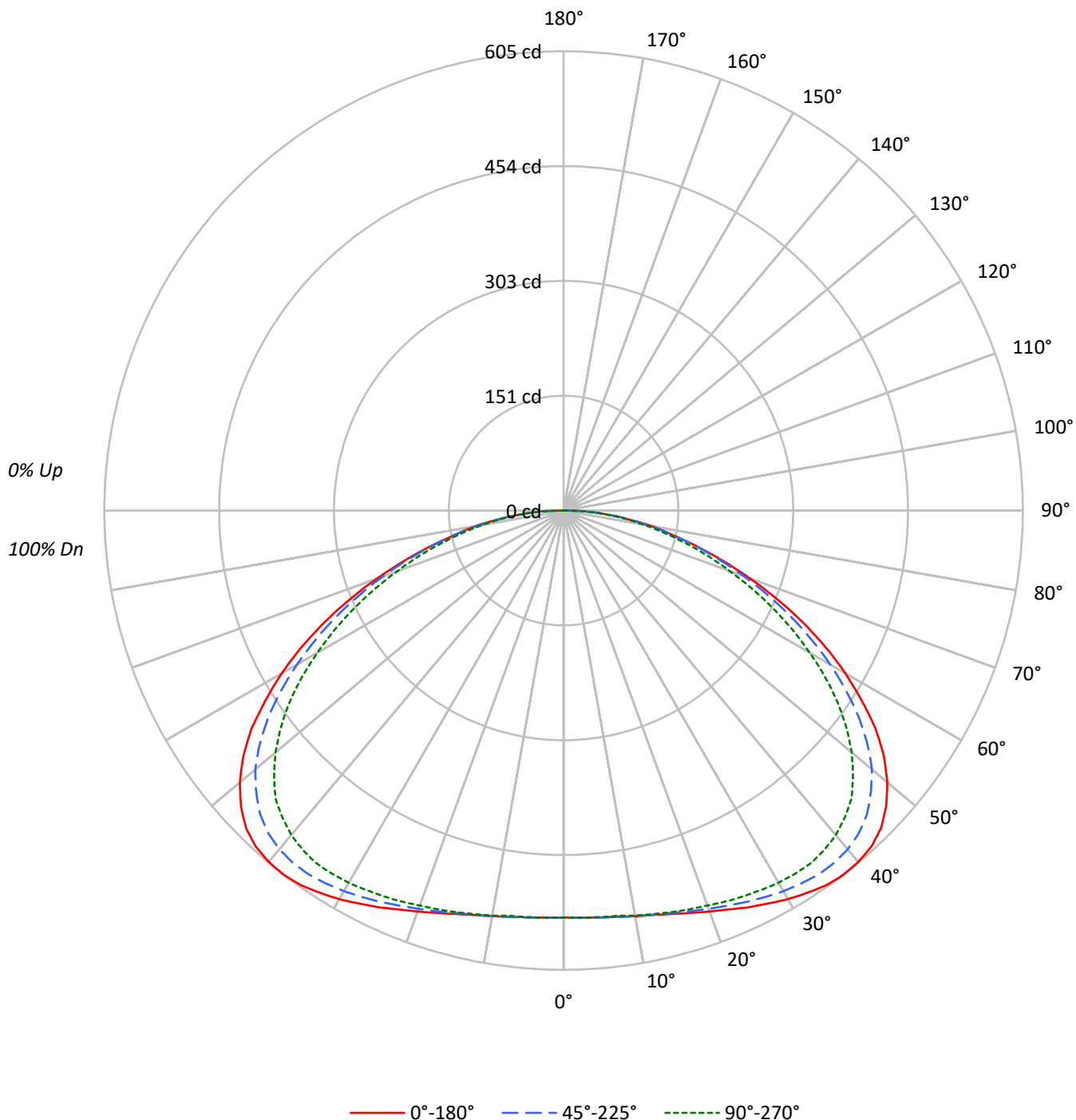
Lumens per Lamp: N/A
Luminaire Lumens: 2267.3 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.7
Input Voltage (V):
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.9
Total Harmonic Distortion (THDi): ≈20%
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1527072

CATALOG NUMBER: 24CGTX-20-F125-L835

Luminous Intensity Polar Plot



TEST NUMBER: P1527072

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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	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°	721	721	721
5°	726	727	726
10°	741	741	740
15°	766	764	763
20°	805	799	793
25°	856	845	832
30°	918	899	880
35°	990	961	932
40°	1061	1023	980
45°	1126	1076	1021
50°	1165	1110	1037
55°	1178	1114	1034
60°	1153	1092	1008
65°	1104	1051	968
70°	1028	994	916
75°	941	935	868
80°	913	895	831
85°	849	885	831

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 1178 cd/sqm

TEST NUMBER: P1527072

CATALOG NUMBER: 24CGTX-20-F125-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.5	2.3
10°-20°	156.0	6.9
20°-30°	263.4	11.6
30°-40°	366.5	16.2
40°-50°	433.8	19.1
50°-60°	420.9	18.6
60°-70°	324.3	14.3
70°-80°	189.2	8.3
80°-90°	61.8	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°	470.9	20.8
0°-40°	837.3	36.9
0°-60°	1692.0	74.6
0°-90°	2267.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2267.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	536	536	536	536	536	
5°	538	538	538	538	538	51
15°	550	550	549	548	548	156
25°	576	574	569	563	561	267
35°	603	597	585	573	567	377
45°	592	584	565	546	537	454
55°	502	494	475	453	441	446
65°	347	343	330	313	304	343
75°	181	185	180	172	167	194
85°	55	58	57	56	54	61
90°	0	0	0	0	0	

TEST NUMBER: P1527072

CATALOG NUMBER: 24CGTX-20-F125-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	536.2	536.2	536.2	536.2	536.2
2.5°	536.6	537.0	537.0	537.0	537.0
5°	537.7	538.1	538.1	538.1	537.7
7.5°	539.7	539.7	540.1	539.7	538.5
10°	542.5	542.5	542.5	542.1	541.7
12.5°	545.7	546.0	545.3	544.9	544.5
15°	550.0	550.0	548.8	547.6	547.6
17.5°	555.9	555.1	553.6	551.6	550.8
20°	561.9	561.1	558.3	555.1	553.6
22.5°	568.6	567.0	563.4	559.1	557.5
25°	576.5	574.1	569.0	563.0	560.7
27.5°	583.6	580.4	574.1	567.4	563.4
30°	591.1	587.2	578.9	570.2	566.2
32.5°	597.1	593.1	582.4	572.5	567.4
35°	602.6	597.4	585.2	572.9	567.4
37.5°	605.0	599.4	585.2	571.0	563.8
40°	604.2	598.2	582.4	566.2	557.9
42.5°	600.2	593.1	576.1	557.9	548.4
45°	591.5	583.6	565.4	546.0	536.6
47.5°	576.5	568.6	549.2	528.6	517.2
50°	556.7	548.4	530.2	507.3	495.4
52.5°	531.8	523.5	504.5	481.2	469.7
55°	502.2	493.5	474.9	452.7	440.9
57.5°	465.8	459.5	441.3	420.3	408.8
60°	428.6	422.3	405.7	385.9	374.4
62.5°	388.7	383.5	368.5	349.9	340.0
65°	346.8	342.8	330.2	313.2	304.1
67.5°	304.1	302.5	291.0	276.4	268.5
70°	261.4	262.2	252.7	239.6	232.9
72.5°	219.8	222.6	215.1	204.4	199.7
75°	181.1	185.4	179.9	171.6	166.9
77.5°	145.1	151.0	146.3	140.0	136.0
80°	117.8	117.4	115.5	110.7	107.2
82.5°	84.6	86.2	85.0	82.2	80.3
85°	55.0	57.7	57.3	56.1	53.8
87.5°	27.3	30.4	30.8	30.1	28.9
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1527072

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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	13.3	15.0	13.6	15.3	15.6	12.6	14.3	12.9	14.6	15.0
	3H	15.1	16.7	15.5	17.0	17.3	14.4	16.0	14.8	16.3	16.6
	4H	15.7	17.2	16.1	17.6	18.0	15.1	16.6	15.5	16.9	17.3
	6H	16.3	17.7	16.7	18.0	18.4	15.6	17.0	16.0	17.4	17.8
	8H	16.5	17.8	16.9	18.2	18.6	15.8	17.2	16.2	17.5	17.9
	12H	16.6	17.9	17.0	18.3	18.7	16.0	17.3	16.4	17.6	18.1
4H	2H	13.9	15.3	14.3	15.7	16.1	13.3	14.8	13.7	15.2	15.5
	3H	15.9	17.2	16.3	17.6	18.0	15.3	16.6	15.7	17.0	17.4
	4H	16.7	17.9	17.1	18.3	18.7	16.2	17.3	16.6	17.7	18.1
	6H	17.4	18.4	17.8	18.8	19.3	16.8	17.8	17.3	18.3	18.7
	8H	17.7	18.6	18.1	19.0	19.5	17.1	18.0	17.6	18.5	18.9
	12H	17.9	18.7	18.3	19.2	19.6	17.3	18.2	17.8	18.7	19.1
8H	4H	17.0	18.0	17.5	18.4	18.9	16.5	17.5	17.0	17.9	18.4
	6H	17.9	18.6	18.3	19.1	19.6	17.4	18.2	17.9	18.6	19.1
	8H	18.2	18.9	18.7	19.4	19.9	17.7	18.4	18.2	18.9	19.4
	12H	18.5	19.1	19.0	19.6	20.2	18.0	18.7	18.5	19.2	19.7
12H	4H	17.1	17.9	17.6	18.4	18.9	16.6	17.4	17.1	17.9	18.4
	6H	17.9	18.7	18.5	19.1	19.6	17.5	18.2	18.0	18.6	19.2
	8H	18.3	19.0	18.8	19.5	20.0	17.9	18.5	18.4	19.0	19.6













(END OF REPORT)