

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: P1527166

Luminaire Tested: 24CGTX-90HE-F125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527166
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-90HE-F125-L830
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

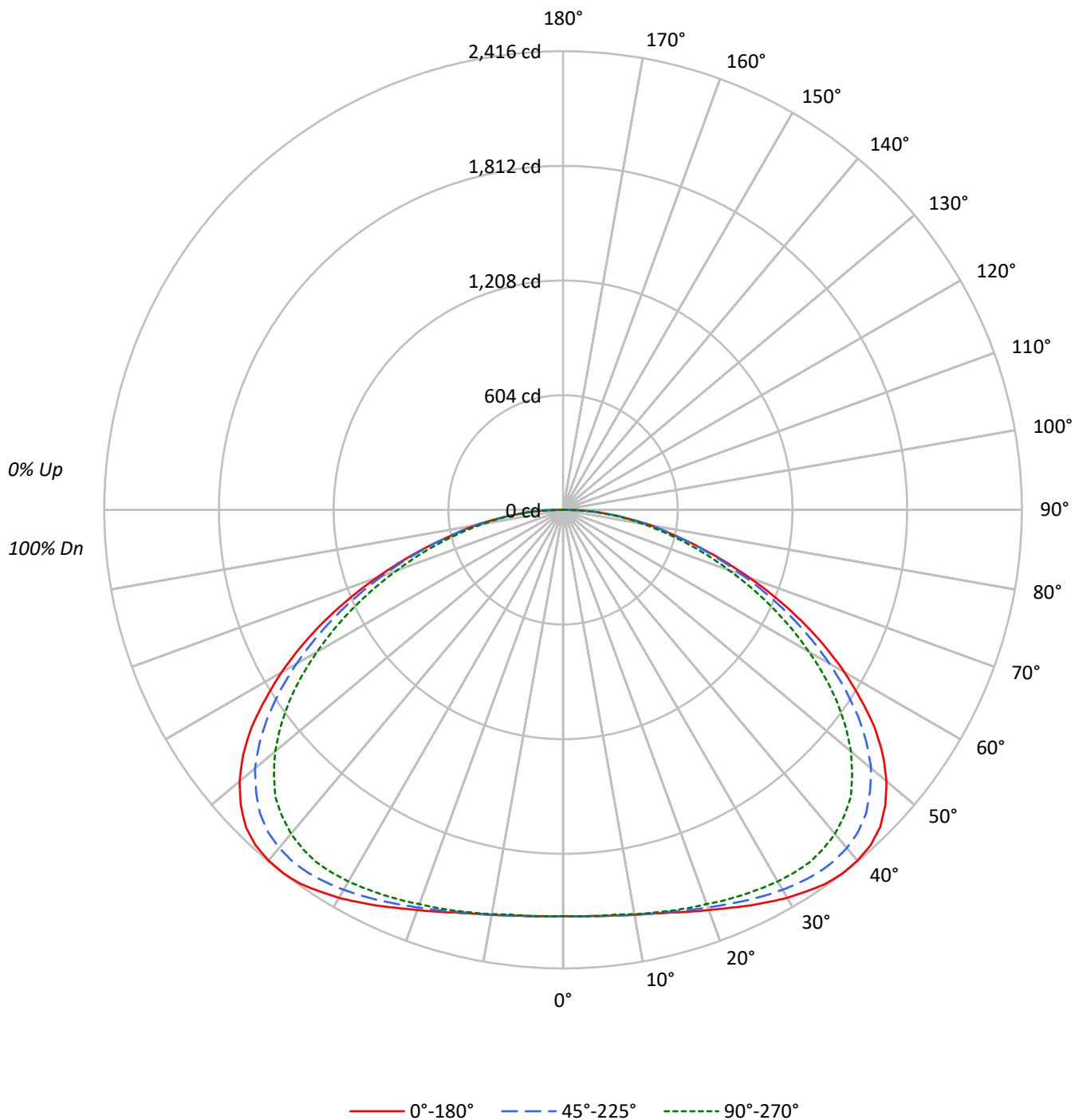
Lumens per Lamp: N/A
Luminaire Lumens: 9053.0 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.3
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: P1527166

CATALOG NUMBER: 24CGTX-90HE-F125-L830

Luminous Intensity Polar Plot



TEST NUMBER: P1527166

CATALOG NUMBER: 24CGTX-90HE-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	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°	2880	2880	2880
5°	2900	2902	2900
10°	2959	2959	2955
15°	3059	3052	3046
20°	3212	3192	3165
25°	3417	3373	3324
30°	3667	3591	3512
35°	3952	3838	3721
40°	4237	4085	3913
45°	4494	4296	4077
50°	4653	4432	4141
55°	4703	4448	4129
60°	4605	4359	4023
65°	4408	4197	3865
70°	4105	3969	3658
75°	3759	3734	3463
80°	3646	3572	3315
85°	3387	3534	3314

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 4703 cd/sqm

TEST NUMBER: P1527166

CATALOG NUMBER: 24CGTX-90HE-F125-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.6	2.3
10°-20°	622.8	6.9
20°-30°	1051.9	11.6
30°-40°	1463.2	16.2
40°-50°	1732.1	19.1
50°-60°	1680.4	18.6
60°-70°	1294.7	14.3
70°-80°	755.5	8.3
80°-90°	246.9	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°	1880.2	20.8
0°-40°	3343.4	36.9
0°-60°	6755.9	74.6
0°-90°	9053.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9053.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2141	2141	2141	2141	2141	
5°	2147	2149	2149	2149	2147	206
15°	2196	2196	2191	2187	2187	625
25°	2302	2292	2272	2248	2239	1067
35°	2406	2386	2337	2288	2266	1507
45°	2362	2330	2258	2180	2142	1814
55°	2005	1970	1896	1808	1760	1780
65°	1385	1369	1318	1250	1214	1368
75°	723	740	718	685	666	775
85°	219	230	229	224	215	245
90°	0	0	0	0	0	

TEST NUMBER: P1527166

CATALOG NUMBER: 24CGTX-90HE-F125-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2140.8	2140.8	2140.8	2140.8	2140.8
2.5°	2142.4	2144.0	2144.0	2144.0	2144.0
5°	2147.1	2148.7	2148.7	2148.7	2147.1
7.5°	2155.0	2155.0	2156.6	2155.0	2150.3
10°	2166.1	2166.1	2166.1	2164.5	2162.9
12.5°	2178.7	2180.3	2177.1	2175.6	2174.0
15°	2196.1	2196.1	2191.3	2186.6	2186.6
17.5°	2219.8	2216.6	2210.3	2202.4	2199.2
20°	2243.4	2240.3	2229.2	2216.6	2210.3
22.5°	2270.3	2264.0	2249.8	2232.4	2226.1
25°	2301.9	2292.4	2271.9	2248.2	2238.7
27.5°	2330.3	2317.6	2292.4	2265.5	2249.8
30°	2360.3	2344.5	2311.3	2276.6	2260.8
32.5°	2384.0	2368.2	2325.5	2286.1	2265.5
35°	2406.1	2385.5	2336.6	2287.6	2265.5
37.5°	2415.5	2393.4	2336.6	2279.8	2251.3
40°	2412.4	2388.7	2325.5	2260.8	2227.7
42.5°	2396.6	2368.2	2300.3	2227.7	2189.8
45°	2361.8	2330.3	2257.7	2180.3	2142.4
47.5°	2301.9	2270.3	2192.9	2110.8	2065.0
50°	2222.9	2189.8	2117.1	2025.6	1978.2
52.5°	2123.5	2090.3	2014.5	1921.4	1875.6
55°	2005.0	1970.3	1896.1	1807.7	1760.3
57.5°	1859.8	1834.5	1761.9	1678.2	1632.5
60°	1711.4	1686.1	1619.8	1540.9	1495.1
62.5°	1551.9	1531.4	1471.4	1397.2	1357.7
65°	1384.6	1368.8	1318.3	1250.4	1214.1
67.5°	1214.1	1207.8	1162.0	1103.6	1072.0
70°	1043.6	1046.7	1008.8	956.7	929.9
72.5°	877.8	888.9	858.9	816.2	797.3
75°	723.1	740.4	718.3	685.2	666.2
77.5°	579.4	603.1	584.1	558.9	543.1
80°	470.5	468.9	461.0	442.1	427.8
82.5°	337.9	344.2	339.4	328.4	320.5
85°	219.4	230.5	228.9	224.2	214.7
87.5°	108.9	121.6	123.1	120.0	115.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1527166

CATALOG NUMBER: 24CGTX-90HE-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	18.1	19.8	18.4	20.1	20.4	17.4	19.1	17.8	19.4	19.8
	3H	19.9	21.5	20.3	21.8	22.1	19.2	20.8	19.6	21.1	21.4
	4H	20.6	22.0	20.9	22.4	22.8	19.9	21.4	20.3	21.7	22.1
	6H	21.1	22.5	21.5	22.8	23.2	20.4	21.8	20.8	22.2	22.6
	8H	21.3	22.6	21.7	23.0	23.4	20.6	22.0	21.1	22.4	22.7
	12H	21.4	22.7	21.8	23.1	23.5	20.8	22.1	21.2	22.5	22.9
4H	2H	18.7	20.2	19.1	20.5	20.9	18.1	19.6	18.5	20.0	20.3
	3H	20.7	22.0	21.1	22.4	22.8	20.1	21.4	20.6	21.8	22.2
	4H	21.5	22.7	22.0	23.1	23.5	21.0	22.1	21.4	22.5	22.9
	6H	22.2	23.2	22.7	23.6	24.1	21.7	22.7	22.1	23.1	23.5
	8H	22.5	23.4	22.9	23.8	24.3	21.9	22.9	22.4	23.3	23.8
	12H	22.7	23.5	23.1	24.0	24.5	22.1	23.0	22.6	23.5	23.9
8H	4H	21.8	22.8	22.3	23.2	23.7	21.3	22.3	21.8	22.7	23.2
	6H	22.7	23.5	23.2	23.9	24.4	22.2	23.0	22.7	23.5	23.9
	8H	23.0	23.7	23.5	24.2	24.7	22.5	23.2	23.0	23.7	24.2
	12H	23.3	23.9	23.8	24.4	25.0	22.9	23.5	23.4	24.0	24.5
12H	4H	21.9	22.7	22.4	23.2	23.7	21.4	22.3	21.9	22.7	23.2
	6H	22.8	23.5	23.3	23.9	24.5	22.3	23.0	22.8	23.5	24.0
	8H	23.1	23.8	23.7	24.3	24.8	22.7	23.3	23.2	23.8	24.4













(END OF REPORT)