

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: P1526943

Luminaire Tested: 24CGTX-80HE-A125-L835

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526943
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-4)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CGTX-80HE-A125-L835
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

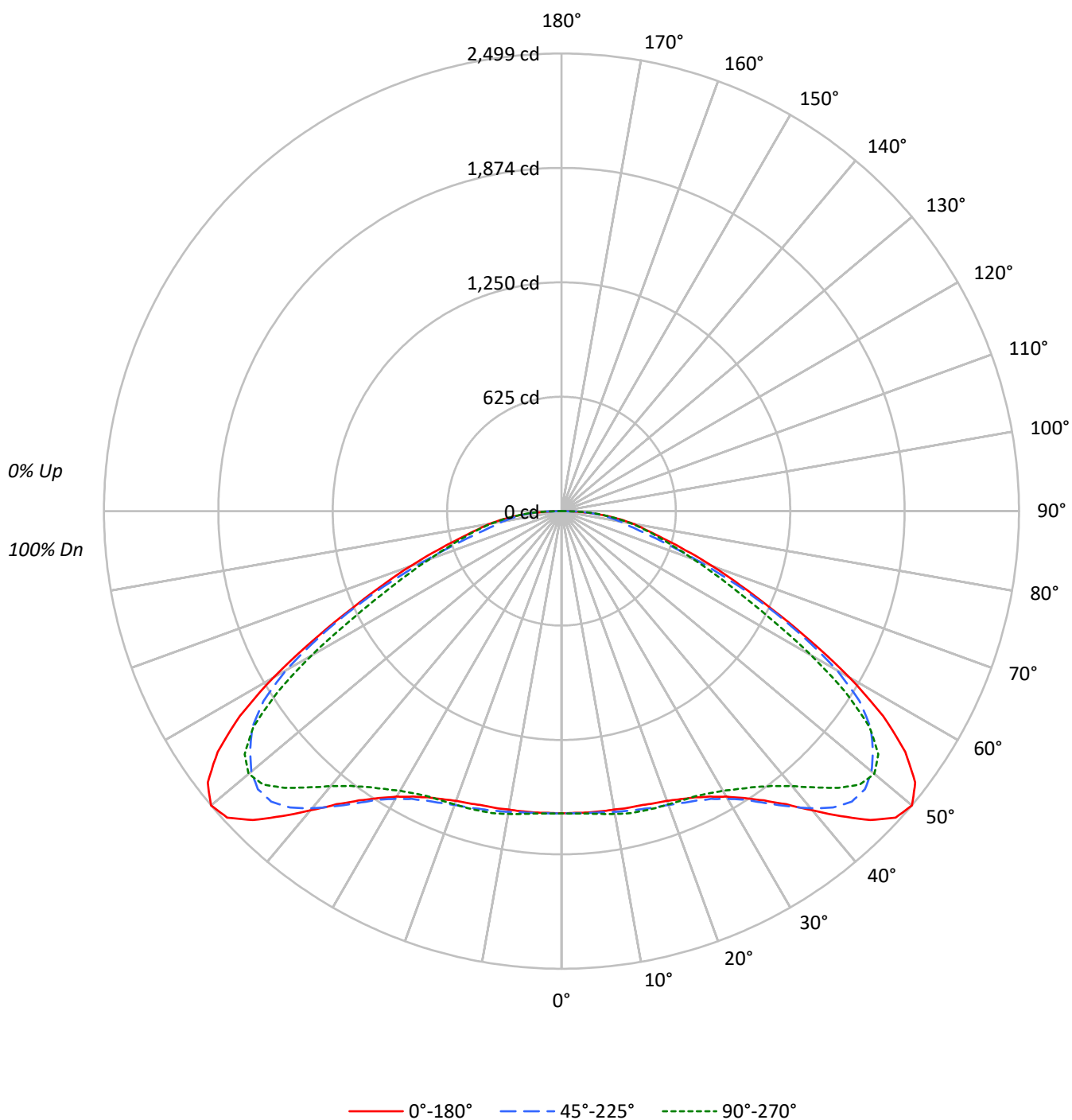
Lumens per Lamp: N/A
Luminaire Lumens: 8238.9 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 63.5
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: P1526943

CATALOG NUMBER: 24CGTX-80HE-A125-L835

Luminous Intensity Polar Plot



TEST NUMBER: P1526943

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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	80	74	94	86	79	73	82	76	71	79	74	70	76	72	68	66			
3	87	76	67	60	85	74	66	59	71	64	58	68	62	57	66	60	56	54			
4	79	66	56	49	77	65	56	49	62	54	48	60	53	47	57	51	47	44			
5	72	58	48	41	70	57	48	41	55	46	40	53	45	40	51	44	39	37			
6	66	51	42	35	64	50	41	35	49	40	34	47	39	34	45	39	34	31			
7	61	46	36	30	59	45	36	30	43	35	29	42	35	29	41	34	29	27			
8	56	41	32	26	54	41	32	26	39	31	26	38	31	25	37	30	25	23			
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20			
10	48	34	26	20	47	34	26	20	33	25	20	32	25	20	31	24	20	18			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2221	2221	2221
5°	2231	2235	2239
10°	2261	2278	2294
15°	2317	2347	2363
20°	2410	2445	2441
25°	2560	2590	2552
30°	2797	2817	2739
35°	3168	3196	3020
40°	3746	3721	3443
45°	4538	4267	4066
50°	5231	4628	4670
55°	5377	4835	4819
60°	4887	4672	4242
65°	4042	3969	3461
70°	3451	3109	3008
75°	2989	2477	2848
80°	3095	2509	2996
85°	3128	3017	3325

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 5382 cd/sqm

TEST NUMBER: P1526943

CATALOG NUMBER: 24CGTX-80HE-A125-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.4	1.9
10°-20°	477.7	5.8
20°-30°	806.9	9.8
30°-40°	1214.7	14.7
40°-50°	1727.2	21.0
50°-60°	1853.7	22.5
60°-70°	1208.0	14.7
70°-80°	580.9	7.1
80°-90°	211.4	2.6
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°	1443.0	17.5
0°-40°	2657.7	32.3
0°-60°	6238.6	75.7
0°-90°	8238.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8238.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1650	1650	1650	1650	1650	
5°	1652	1653	1655	1660	1658	158
15°	1663	1672	1685	1695	1696	473
25°	1725	1740	1745	1729	1719	803
35°	1929	1966	1946	1880	1839	1224
45°	2385	2327	2242	2184	2137	1831
55°	2292	2234	2061	2001	2054	2005
65°	1270	1260	1247	1113	1087	1285
75°	575	544	476	542	548	631
85°	203	190	195	201	215	220
90°	0	0	0	0	0	

TEST NUMBER: P1526943

CATALOG NUMBER: 24CGTX-80HE-A125-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1650.5	1650.5	1650.5	1650.5	1650.5
2.5°	1649.0	1650.5	1651.9	1653.3	1653.3
5°	1651.9	1653.3	1654.7	1660.4	1657.6
7.5°	1653.3	1654.7	1659.0	1667.6	1667.6
10°	1654.7	1659.0	1667.6	1676.1	1679.0
12.5°	1660.4	1664.7	1676.1	1687.6	1690.4
15°	1663.3	1671.9	1684.7	1694.7	1696.1
17.5°	1673.3	1681.8	1696.1	1700.4	1700.4
20°	1683.3	1694.7	1707.5	1707.5	1704.7
22.5°	1701.8	1714.7	1724.6	1716.1	1710.4
25°	1724.6	1740.3	1744.6	1728.9	1718.9
27.5°	1757.4	1777.4	1771.7	1750.3	1737.5
30°	1800.2	1825.9	1813.1	1781.7	1763.2
32.5°	1857.3	1888.7	1867.3	1827.3	1798.8
35°	1928.6	1965.7	1945.7	1880.1	1838.8
37.5°	2017.1	2055.6	2031.3	1947.2	1891.5
40°	2132.6	2152.6	2118.4	2027.1	1960.0
42.5°	2258.2	2248.2	2195.4	2111.2	2045.6
45°	2385.1	2326.6	2242.5	2184.0	2136.9
47.5°	2476.4	2368.0	2248.2	2218.2	2209.6
50°	2499.2	2359.4	2211.1	2199.7	2231.0
52.5°	2435.0	2313.8	2144.0	2124.1	2181.1
55°	2292.4	2233.9	2061.3	2001.4	2054.2
57.5°	2082.7	2078.4	1930.1	1823.1	1837.3
60°	1815.9	1833.1	1736.1	1584.8	1576.3
62.5°	1527.8	1537.8	1495.0	1338.1	1308.1
65°	1269.6	1259.6	1246.8	1112.7	1087.0
67.5°	1057.0	1027.1	1007.1	925.8	913.0
70°	877.3	830.2	790.3	777.4	764.6
72.5°	710.4	676.2	612.0	647.6	646.2
75°	574.9	543.5	476.5	542.1	547.8
77.5°	470.7	449.3	385.2	445.1	463.6
80°	399.4	355.2	323.8	362.3	386.6
82.5°	305.3	271.0	263.9	279.6	302.4
85°	202.6	189.7	195.4	201.1	215.4
87.5°	102.7	109.8	118.4	128.4	135.5
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1526943

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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	19.2	20.9	19.5	21.3	21.6	18.3	20.0	18.6	20.4	20.7
	3H	20.3	21.9	20.6	22.2	22.6	19.4	21.0	19.8	21.3	21.7
	4H	20.7	22.2	21.1	22.5	22.9	19.9	21.4	20.3	21.7	22.1
	6H	21.0	22.4	21.4	22.8	23.2	20.3	21.7	20.7	22.1	22.5
	8H	21.2	22.5	21.6	22.9	23.3	20.5	21.8	20.9	22.2	22.6
	12H	21.3	22.6	21.7	23.0	23.4	20.7	22.0	21.1	22.4	22.8
4H	2H	19.6	21.1	20.0	21.4	21.8	18.8	20.3	19.2	20.7	21.1
	3H	20.9	22.1	21.3	22.5	22.9	20.1	21.4	20.5	21.8	22.2
	4H	21.4	22.5	21.8	22.9	23.4	20.7	21.9	21.1	22.3	22.7
	6H	21.9	22.9	22.3	23.3	23.8	21.3	22.3	21.7	22.8	23.2
	8H	22.1	23.0	22.5	23.5	23.9	21.6	22.5	22.0	23.0	23.4
	12H	22.3	23.1	22.7	23.6	24.1	21.8	22.7	22.3	23.1	23.6
8H	4H	21.5	22.5	22.0	22.9	23.4	20.9	21.9	21.4	22.3	22.8
	6H	22.1	22.9	22.6	23.4	23.9	21.6	22.4	22.1	22.9	23.4
	8H	22.4	23.1	22.9	23.6	24.1	22.0	22.7	22.5	23.2	23.7
	12H	22.7	23.4	23.2	23.8	24.4	22.3	23.0	22.8	23.5	24.0
12H	4H	21.6	22.4	22.0	22.9	23.4	21.0	21.8	21.4	22.3	22.8
	6H	22.2	22.9	22.7	23.4	23.9	21.7	22.4	22.2	22.9	23.4
	8H	22.5	23.2	23.0	23.7	24.2	22.1	22.8	22.6	23.2	23.8















(END OF REPORT)