

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: P1526997

Luminaire Tested: 14CGTX-80HE-F125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CGTX-80HE-F125-L830
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

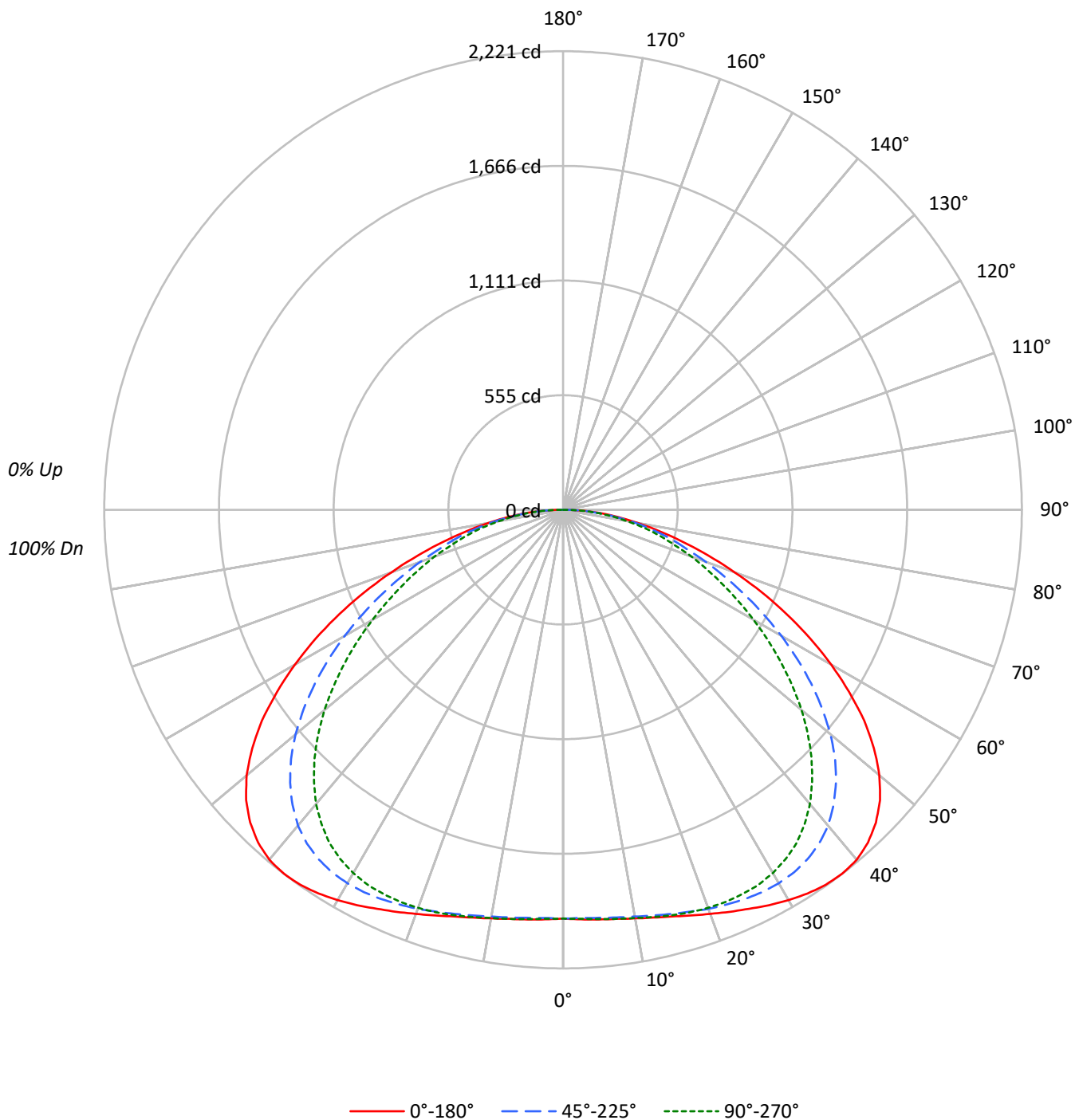
Lumens per Lamp: N/A
Luminaire Lumens: 7585.0 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.68 / 1.5 / 1.61
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 61.9
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: P1526997

CATALOG NUMBER: 14CGTX-80HE-F125-L830

Luminous Intensity Polar Plot



TEST NUMBER: P1526997

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82		
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68		
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56		
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47		
5	74	61	51	44	72	59	51	44	57	50	44	55	48	43	53	47	43	40		
6	68	54	45	38	66	53	44	38	51	44	38	50	43	37	48	42	37	35		
7	63	49	40	33	61	48	39	33	46	39	33	45	38	33	44	37	32	30		
8	58	44	36	29	57	44	35	29	42	35	29	41	34	29	40	34	29	27		
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24		
10	51	37	29	24	50	37	29	24	36	28	23	35	28	23	34	28	23	21		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5326	5326	5326
5°	5379	5357	5373
10°	5490	5465	5484
15°	5680	5644	5663
20°	5963	5889	5875
25°	6329	6176	6097
30°	6781	6489	6310
35°	7282	6782	6473
40°	7770	7012	6532
45°	8150	7111	6474
50°	8369	7072	6310
55°	8348	6876	6045
60°	8069	6562	5731
65°	7599	6163	5419
70°	6954	5770	5209
75°	6256	5556	5031
80°	5720	5399	4861
85°	5499	5165	4860

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 8386 cd/sqm

TEST NUMBER: P1526997

CATALOG NUMBER: 14CGTX-80HE-F125-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.2	2.5
10°-20°	576.8	7.6
20°-30°	965.1	12.7
30°-40°	1300.4	17.1
40°-50°	1458.7	19.2
50°-60°	1338.5	17.6
60°-70°	990.0	13.1
70°-80°	575.9	7.6
80°-90°	189.4	2.5
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°	1732.1	22.8
0°-40°	3032.6	40.0
0°-60°	5829.7	76.9
0°-90°	7585.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7585.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1979	1979	1979	1979	1979	
5°	1991	1990	1983	1984	1989	191
15°	2039	2035	2026	2028	2033	580
25°	2132	2116	2080	2058	2054	988
35°	2217	2170	2064	1992	1970	1388
45°	2142	2060	1868	1742	1701	1646
55°	1779	1678	1466	1329	1288	1581
65°	1194	1121	968	880	851	1180
75°	602	594	534	492	484	645
85°	178	183	167	169	157	196
90°	0	0	0	0	0	

TEST NUMBER: P1526997

CATALOG NUMBER: 14CGTX-80HE-F125-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1979.3	1979.3	1979.3	1979.3	1979.3
2.5°	1985.2	1985.2	1978.3	1980.3	1982.3
5°	1991.2	1990.2	1983.3	1984.2	1989.2
7.5°	1998.1	1998.1	1991.2	1991.2	1998.1
10°	2009.0	2007.0	2000.1	2002.1	2007.0
12.5°	2022.8	2018.9	2012.0	2013.9	2019.9
15°	2038.7	2034.7	2025.8	2027.8	2032.7
17.5°	2059.5	2053.5	2040.7	2040.7	2043.6
20°	2082.2	2072.3	2056.5	2048.6	2051.5
22.5°	2107.0	2094.1	2068.4	2054.5	2055.5
25°	2131.7	2115.9	2080.2	2057.5	2053.5
27.5°	2158.4	2135.7	2087.2	2055.5	2047.6
30°	2182.2	2153.5	2088.2	2044.6	2030.8
32.5°	2203.0	2165.4	2081.2	2023.8	2006.0
35°	2216.8	2170.3	2064.4	1992.2	1970.4
37.5°	2220.8	2164.4	2036.7	1948.6	1919.9
40°	2211.9	2145.6	1996.1	1891.2	1859.6
42.5°	2185.1	2111.9	1938.7	1821.9	1784.3
45°	2141.6	2060.4	1868.5	1741.8	1701.2
47.5°	2081.2	1989.2	1786.3	1649.7	1607.2
50°	1999.1	1902.1	1689.3	1549.8	1507.2
52.5°	1897.2	1796.2	1581.5	1443.9	1398.4
55°	1779.4	1677.5	1465.7	1329.1	1288.5
57.5°	1641.8	1547.8	1343.9	1214.3	1175.7
60°	1499.3	1410.3	1219.2	1099.5	1064.9
62.5°	1348.9	1267.7	1093.6	985.7	956.0
65°	1193.5	1121.3	967.9	879.8	851.1
67.5°	1038.1	982.7	848.1	769.9	754.1
70°	883.8	842.2	733.3	681.9	662.1
72.5°	737.3	715.5	624.5	589.8	563.1
75°	601.7	593.8	534.4	491.9	483.9
77.5°	479.0	490.9	439.4	408.7	401.8
80°	369.1	381.0	348.4	322.6	313.7
82.5°	269.2	285.0	252.4	246.4	237.5
85°	178.1	183.1	167.3	169.2	157.4
87.5°	87.1	97.0	88.1	91.0	85.1
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1526997

CATALOG NUMBER: 14CGTX-80HE-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	20.0	21.7	20.4	22.0	22.3	18.2	19.9	18.6	20.2	20.5
	3H	21.8	23.3	22.1	23.6	24.0	19.9	21.5	20.3	21.8	22.2
	4H	22.4	23.9	22.8	24.2	24.6	20.6	22.1	21.0	22.4	22.8
	6H	22.9	24.2	23.3	24.6	25.0	21.2	22.6	21.6	22.9	23.3
	8H	23.1	24.4	23.5	24.7	25.1	21.4	22.7	21.8	23.1	23.5
	12H	23.2	24.4	23.6	24.8	25.2	21.6	22.8	22.0	23.2	23.6
4H	2H	20.4	21.9	20.8	22.2	22.6	19.0	20.4	19.4	20.8	21.1
	3H	22.4	23.6	22.8	24.0	24.4	20.9	22.1	21.3	22.5	22.9
	4H	23.2	24.3	23.6	24.7	25.2	21.7	22.8	22.2	23.3	23.7
	6H	23.9	24.9	24.3	25.3	25.7	22.4	23.4	22.9	23.9	24.3
	8H	24.1	25.0	24.6	25.5	25.9	22.7	23.6	23.2	24.1	24.5
	12H	24.3	25.1	24.8	25.6	26.1	23.0	23.8	23.4	24.2	24.7
8H	4H	23.5	24.4	23.9	24.8	25.3	22.2	23.1	22.6	23.5	24.0
	6H	24.3	25.0	24.8	25.5	26.0	23.0	23.8	23.5	24.3	24.7
	8H	24.6	25.3	25.1	25.8	26.3	23.4	24.1	23.9	24.6	25.1
	12H	24.9	25.5	25.4	26.0	26.6	23.7	24.3	24.2	24.8	25.4
12H	4H	23.5	24.3	24.0	24.8	25.3	22.2	23.0	22.7	23.5	24.0
	6H	24.3	25.0	24.9	25.5	26.0	23.1	23.8	23.6	24.3	24.8
	8H	24.7	25.3	25.2	25.8	26.4	23.6	24.2	24.1	24.7	25.2















(END OF REPORT)