

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: P1526998

Luminaire Tested: 14CGTX-80HE-F125-L835

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526998
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-L835
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

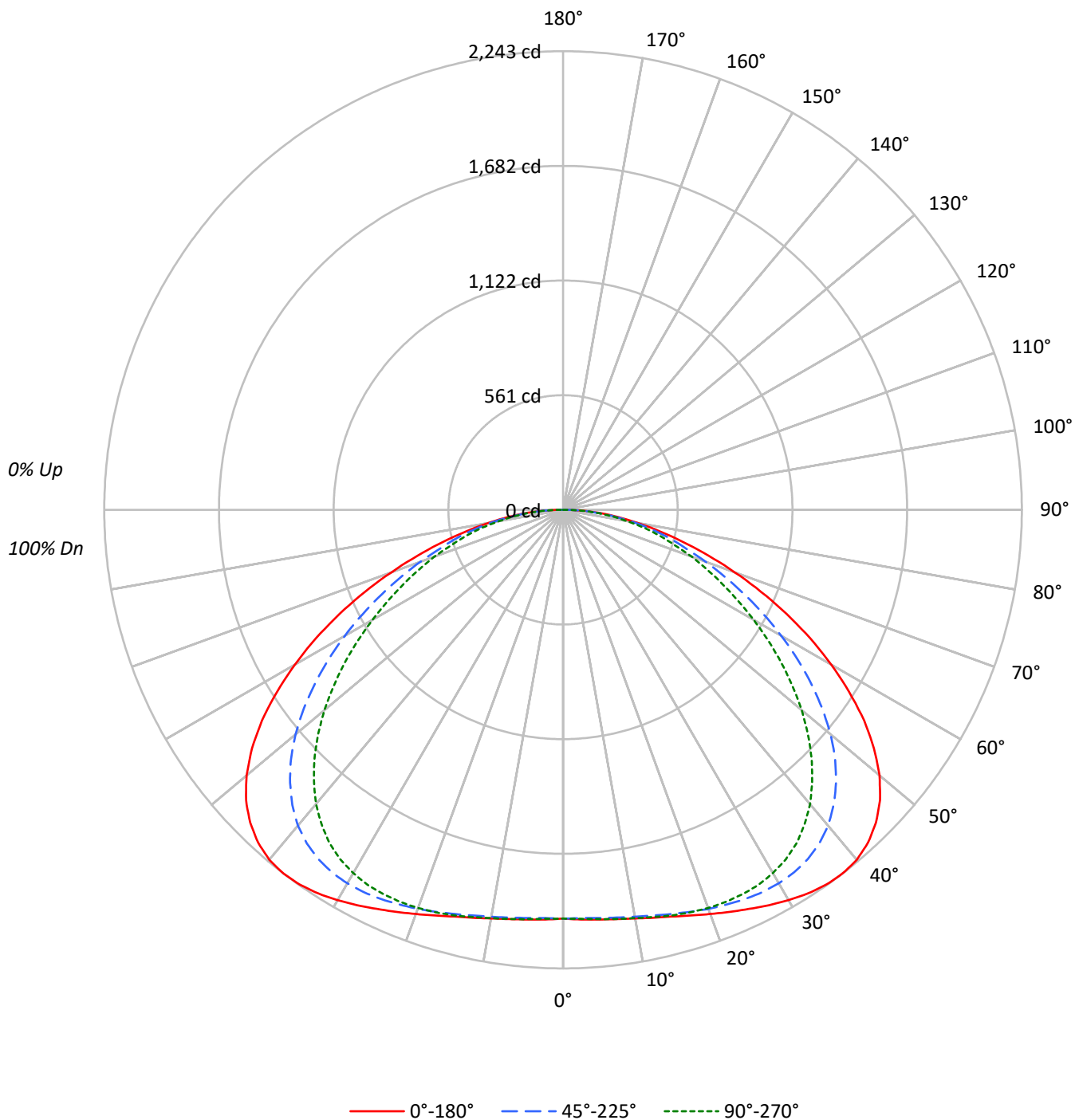
Lumens per Lamp: N/A
Luminaire Lumens: 7661.9 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.68 / 1.5 / 1.61
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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: P1526998

CATALOG NUMBER: 14CGTX-80HE-F125-L835

Luminous Intensity Polar Plot



TEST NUMBER: P1526998

CATALOG NUMBER: 14CGTX-80HE-F125-L835

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	0
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°	5380	5380	5380
5°	5433	5412	5428
10°	5545	5521	5540
15°	5737	5701	5720
20°	6023	5949	5934
25°	6394	6239	6159
30°	6849	6554	6374
35°	7356	6850	6539
40°	7849	7083	6598
45°	8233	7183	6540
50°	8454	7144	6374
55°	8433	6946	6107
60°	8151	6628	5789
65°	7677	6225	5474
70°	7024	5829	5262
75°	6319	5612	5082
80°	5779	5453	4911
85°	5555	5215	4906

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 8471 cd/sqm

TEST NUMBER: P1526998

CATALOG NUMBER: 14CGTX-80HE-F125-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.2	2.5
10°-20°	582.6	7.6
20°-30°	974.9	12.7
30°-40°	1313.6	17.1
40°-50°	1473.5	19.2
50°-60°	1352.1	17.6
60°-70°	1000.0	13.1
70°-80°	581.8	7.6
80°-90°	191.3	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°	1749.7	22.8
0°-40°	3063.3	40.0
0°-60°	5888.8	76.9
0°-90°	7661.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7661.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1999	1999	1999	1999	1999	
5°	2011	2010	2003	2004	2009	193
15°	2059	2055	2046	2048	2053	586
25°	2153	2137	2101	2078	2074	998
35°	2239	2192	2085	2012	1990	1402
45°	2163	2081	1887	1759	1718	1663
55°	1797	1694	1480	1343	1302	1597
65°	1206	1133	978	889	860	1192
75°	608	600	540	497	489	651
85°	180	185	169	171	159	198
90°	0	0	0	0	0	

TEST NUMBER: P1526998

CATALOG NUMBER: 14CGTX-80HE-F125-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1999.4	1999.4	1999.4	1999.4	1999.4
2.5°	2005.4	2005.4	1998.4	2000.4	2002.4
5°	2011.4	2010.4	2003.4	2004.4	2009.4
7.5°	2018.4	2018.4	2011.4	2011.4	2018.4
10°	2029.4	2027.4	2020.4	2022.4	2027.4
12.5°	2043.3	2039.3	2032.3	2034.3	2040.3
15°	2059.3	2055.3	2046.3	2048.3	2053.3
17.5°	2080.3	2074.3	2061.3	2061.3	2064.3
20°	2103.3	2093.3	2077.3	2069.3	2072.3
22.5°	2128.3	2115.3	2089.3	2075.3	2076.3
25°	2153.3	2137.3	2101.3	2078.3	2074.3
27.5°	2180.3	2157.3	2108.3	2076.3	2068.3
30°	2204.3	2175.3	2109.3	2065.3	2051.3
32.5°	2225.3	2187.3	2102.3	2044.3	2026.4
35°	2239.3	2192.3	2085.3	2012.4	1990.4
37.5°	2243.3	2186.3	2057.3	1968.4	1939.4
40°	2234.3	2167.3	2016.4	1910.4	1878.4
42.5°	2207.3	2133.3	1958.4	1840.4	1802.4
45°	2163.3	2081.3	1887.4	1759.4	1718.4
47.5°	2102.3	2009.4	1804.4	1666.5	1623.5
50°	2019.4	1921.4	1706.5	1565.5	1522.5
52.5°	1916.4	1814.4	1597.5	1458.5	1412.5
55°	1797.4	1694.5	1480.5	1342.6	1301.6
57.5°	1658.5	1563.5	1357.6	1226.6	1187.6
60°	1514.5	1424.5	1231.6	1110.6	1075.7
62.5°	1362.6	1280.6	1104.6	995.7	965.7
65°	1205.6	1132.6	977.7	888.7	859.7
67.5°	1048.7	992.7	856.7	777.8	761.8
70°	892.7	850.7	740.8	688.8	668.8
72.5°	744.8	722.8	630.8	595.8	568.8
75°	607.8	599.8	539.8	496.8	488.8
77.5°	483.8	495.8	443.9	412.9	405.9
80°	372.9	384.9	351.9	325.9	316.9
82.5°	271.9	287.9	254.9	248.9	239.9
85°	179.9	184.9	168.9	170.9	158.9
87.5°	88.0	98.0	89.0	92.0	86.0
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1526998

CATALOG NUMBER: 14CGTX-80HE-F125-L835

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	22.1	22.4	18.2	19.9	18.6	20.3	20.6
	3H	21.8	23.3	22.2	23.7	24.0	20.0	21.5	20.3	21.8	22.2
	4H	22.4	23.9	22.8	24.2	24.6	20.7	22.1	21.1	22.5	22.8
	6H	22.9	24.3	23.3	24.6	25.0	21.2	22.6	21.7	23.0	23.3
	8H	23.1	24.4	23.5	24.8	25.2	21.5	22.8	21.9	23.1	23.5
	12H	23.2	24.5	23.7	24.9	25.3	21.6	22.9	22.1	23.3	23.7
4H	2H	20.5	21.9	20.9	22.3	22.6	19.0	20.5	19.4	20.8	21.2
	3H	22.5	23.7	22.9	24.1	24.5	20.9	22.2	21.4	22.6	23.0
	4H	23.3	24.4	23.7	24.8	25.2	21.8	22.9	22.2	23.3	23.7
	6H	23.9	24.9	24.4	25.3	25.8	22.5	23.5	22.9	23.9	24.3
	8H	24.2	25.1	24.6	25.5	26.0	22.8	23.7	23.2	24.1	24.6
	12H	24.3	25.2	24.8	25.6	26.1	23.0	23.8	23.5	24.3	24.8
8H	4H	23.5	24.4	24.0	24.9	25.3	22.2	23.1	22.6	23.5	24.0
	6H	24.3	25.1	24.8	25.6	26.0	23.0	23.8	23.5	24.3	24.8
	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	24.4	24.3	24.8	25.4
12H	4H	23.5	24.4	24.0	24.8	25.3	22.3	23.1	22.7	23.6	24.0
	6H	24.4	25.1	24.9	25.5	26.1	23.2	23.9	23.7	24.3	24.8
	8H	24.8	25.4	25.3	25.9	26.4	23.6	24.2	24.1	24.7	25.2















(END OF REPORT)