

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: P1526999

Luminaire Tested: 14CGTX-80HE-F125-L840

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526999
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-L840
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

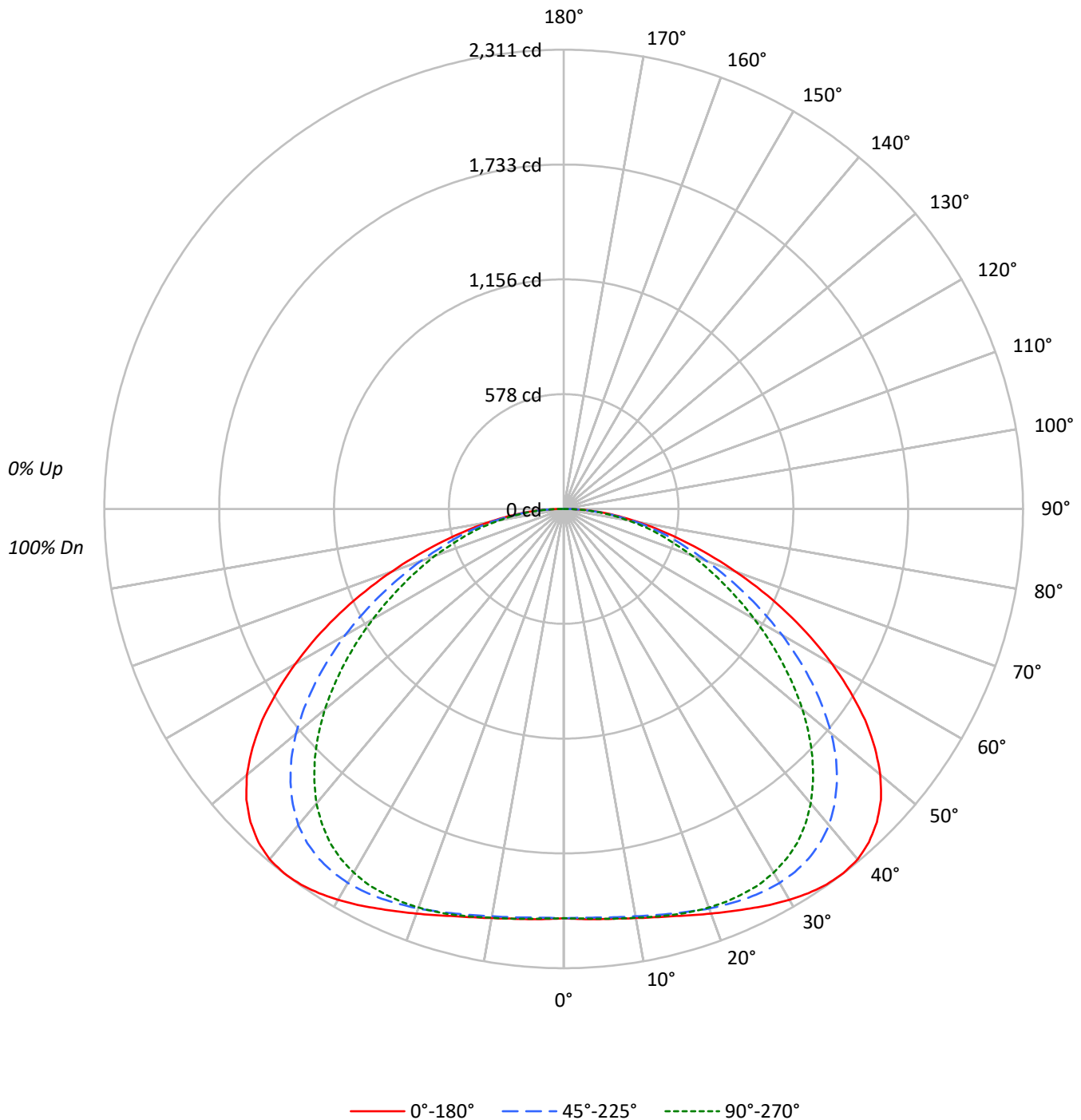
Lumens per Lamp: N/A
Luminaire Lumens: 7892.0 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Spacing Criteria (0/90/45): 1.68 / 1.5 / 1.61
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot



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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	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°	5542	5542	5542
5°	5596	5574	5591
10°	5712	5686	5706
15°	5909	5872	5892
20°	6204	6127	6113
25°	6586	6426	6344
30°	7055	6751	6566
35°	7577	7056	6735
40°	8084	7296	6797
45°	8480	7399	6736
50°	8708	7358	6565
55°	8686	7155	6290
60°	8396	6828	5963
65°	7907	6413	5638
70°	7235	6003	5420
75°	6510	5781	5235
80°	5952	5618	5058
85°	5721	5372	5054

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 8725 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	2.5
10°-20°	600.1	7.6
20°-30°	1004.2	12.7
30°-40°	1353.1	17.1
40°-50°	1517.7	19.2
50°-60°	1392.7	17.6
60°-70°	1030.1	13.1
70°-80°	599.2	7.6
80°-90°	197.0	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°	1802.2	22.8
0°-40°	3155.3	40.0
0°-60°	6065.7	76.9
0°-90°	7892.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7892.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2059	2059	2059	2059	2059	
5°	2072	2071	2064	2065	2070	198
15°	2121	2117	2108	2110	2115	603
25°	2218	2202	2164	2141	2137	1028
35°	2306	2258	2148	2073	2050	1445
45°	2228	2144	1944	1812	1770	1713
55°	1851	1745	1525	1383	1341	1645
65°	1242	1167	1007	915	886	1228
75°	626	618	556	512	504	671
85°	185	190	174	176	164	204
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2059.4	2059.4	2059.4	2059.4	2059.4
2.5°	2065.6	2065.6	2058.4	2060.4	2062.5
5°	2071.8	2070.7	2063.5	2064.6	2069.7
7.5°	2079.0	2079.0	2071.8	2071.8	2079.0
10°	2090.3	2088.2	2081.0	2083.1	2088.2
12.5°	2104.7	2100.6	2093.4	2095.4	2101.6
15°	2121.2	2117.1	2107.8	2109.9	2115.0
17.5°	2142.8	2136.6	2123.3	2123.3	2126.3
20°	2166.5	2156.2	2139.7	2131.5	2134.6
22.5°	2192.2	2178.9	2152.1	2137.7	2138.7
25°	2218.0	2201.5	2164.4	2140.8	2136.6
27.5°	2245.8	2222.1	2171.6	2138.7	2130.5
30°	2270.5	2240.6	2172.7	2127.4	2113.0
32.5°	2292.1	2253.0	2165.5	2105.7	2087.2
35°	2306.5	2258.1	2148.0	2072.8	2050.1
37.5°	2310.7	2252.0	2119.1	2027.5	1997.6
40°	2301.4	2232.4	2076.9	1967.8	1934.8
42.5°	2273.6	2197.4	2017.2	1895.7	1856.6
45°	2228.3	2143.8	1944.1	1812.3	1770.1
47.5°	2165.5	2069.7	1858.6	1716.5	1672.2
50°	2080.0	1979.1	1757.7	1612.5	1568.2
52.5°	1973.9	1868.9	1645.5	1502.3	1455.0
55°	1851.4	1745.4	1525.0	1382.9	1340.7
57.5°	1708.3	1610.5	1398.3	1263.4	1223.3
60°	1560.0	1467.3	1268.6	1144.0	1108.0
62.5°	1403.5	1319.1	1137.8	1025.6	994.7
65°	1241.8	1166.7	1007.1	915.4	885.5
67.5°	1080.2	1022.5	882.5	801.1	784.6
70°	919.5	876.3	763.0	709.5	688.9
72.5°	767.1	744.5	649.7	613.7	585.9
75°	626.1	617.8	556.0	511.8	503.5
77.5°	498.4	510.7	457.2	425.3	418.1
80°	384.1	396.4	362.5	335.7	326.4
82.5°	280.1	296.6	262.6	256.4	247.1
85°	185.3	190.5	174.0	176.1	163.7
87.5°	90.6	100.9	91.6	94.7	88.6
90°	0.0	0.0	0.0	0.0	0.0

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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	20.2	21.9	20.5	22.2	22.5	18.3	20.0	18.7	20.4	20.7
	3H	21.9	23.4	22.3	23.8	24.1	20.1	21.6	20.4	21.9	22.3
	4H	22.5	24.0	22.9	24.3	24.7	20.8	22.2	21.2	22.6	22.9
	6H	23.0	24.4	23.4	24.7	25.1	21.3	22.7	21.8	23.1	23.4
	8H	23.2	24.5	23.6	24.9	25.3	21.6	22.9	22.0	23.2	23.6
	12H	23.3	24.6	23.8	25.0	25.4	21.7	23.0	22.2	23.4	23.8
4H	2H	20.6	22.0	21.0	22.4	22.7	19.1	20.6	19.5	20.9	21.3
	3H	22.6	23.8	23.0	24.2	24.6	21.1	22.3	21.5	22.7	23.1
	4H	23.4	24.5	23.8	24.9	25.3	21.9	23.0	22.3	23.4	23.8
	6H	24.0	25.0	24.5	25.4	25.9	22.6	23.6	23.0	24.0	24.4
	8H	24.3	25.2	24.7	25.6	26.1	22.9	23.8	23.3	24.2	24.7
	12H	24.5	25.3	24.9	25.7	26.2	23.1	23.9	23.6	24.4	24.9
8H	4H	23.6	24.5	24.1	25.0	25.4	22.3	23.2	22.8	23.6	24.1
	6H	24.4	25.2	24.9	25.7	26.1	23.2	23.9	23.6	24.4	24.9
	8H	24.7	25.4	25.3	25.9	26.4	23.5	24.2	24.0	24.7	25.2
	12H	25.0	25.6	25.5	26.1	26.7	23.9	24.5	24.4	24.9	25.5
12H	4H	23.6	24.5	24.1	24.9	25.4	22.4	23.2	22.8	23.7	24.1
	6H	24.5	25.2	25.0	25.6	26.2	23.3	24.0	23.8	24.4	25.0
	8H	24.9	25.5	25.4	26.0	26.5	23.7	24.3	24.2	24.8	25.3















(END OF REPORT)