

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: P1527159

Luminaire Tested: 24CGTX-80HE-F125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527159
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-80HE-F125-L830
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

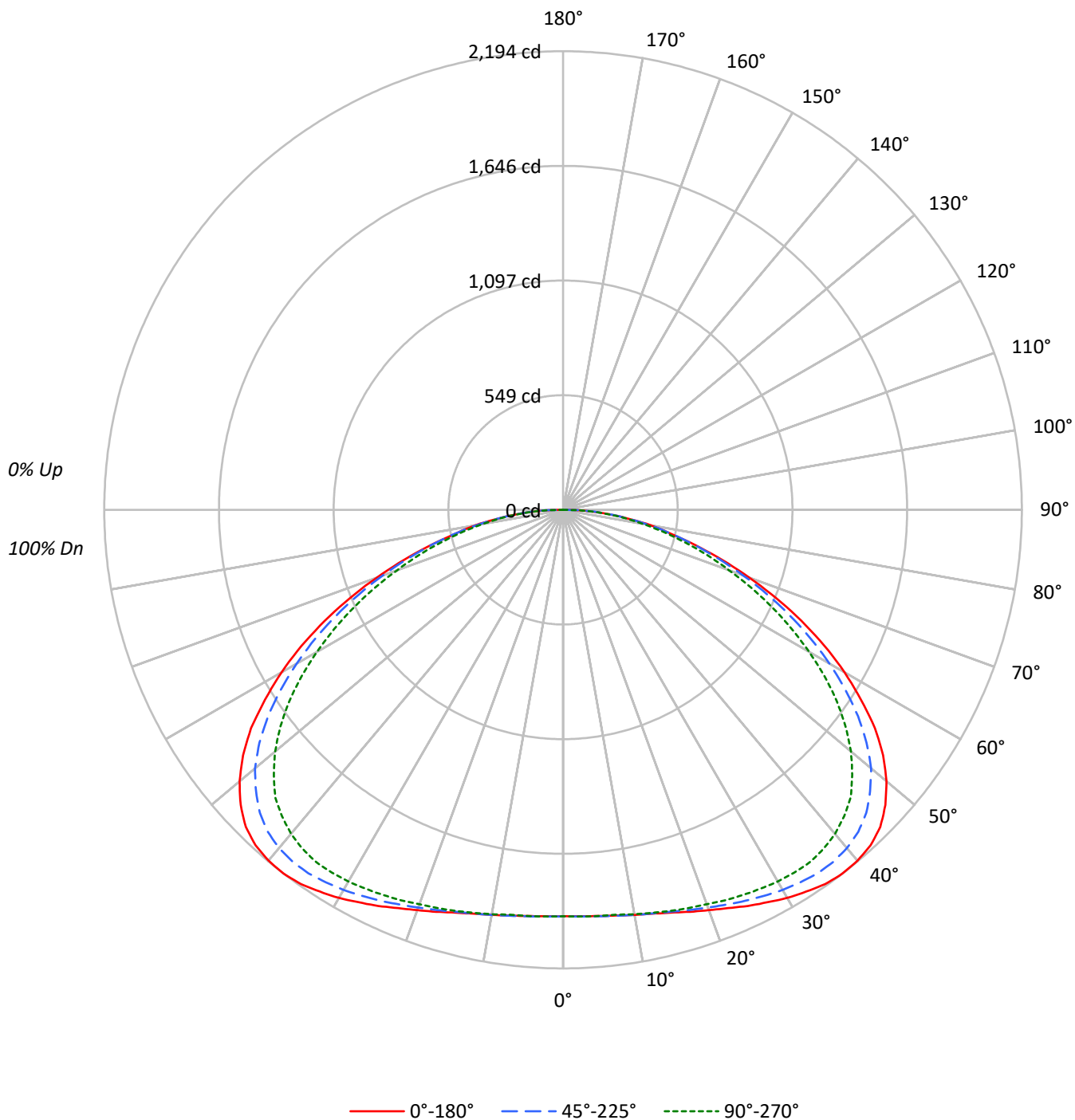
Lumens per Lamp: N/A
Luminaire Lumens: 8223.0 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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			
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	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°	2616	2616	2616
5°	2634	2636	2634
10°	2688	2688	2684
15°	2779	2773	2767
20°	2918	2899	2875
25°	3104	3064	3019
30°	3331	3262	3190
35°	3590	3486	3380
40°	3849	3710	3554
45°	4082	3902	3703
50°	4226	4025	3761
55°	4272	4040	3751
60°	4183	3959	3654
65°	4004	3812	3511
70°	3729	3605	3323
75°	3414	3392	3146
80°	3311	3244	3011
85°	3077	3210	3010

MAXIMUM LUMINANCE 45°-90°:

Luminance: 4272 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.7	2.3
10°-20°	565.7	6.9
20°-30°	955.4	11.6
30°-40°	1329.0	16.2
40°-50°	1573.3	19.1
50°-60°	1526.4	18.6
60°-70°	1176.0	14.3
70°-80°	686.2	8.3
80°-90°	224.3	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°	1707.8	20.8
0°-40°	3036.9	36.9
0°-60°	6136.5	74.6
0°-90°	8223.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8223.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1944	1944	1944	1944	1944	
5°	1950	1952	1952	1952	1950	187
15°	1995	1995	1990	1986	1986	567
25°	2091	2082	2064	2042	2034	969
35°	2186	2167	2122	2078	2058	1369
45°	2145	2117	2051	1980	1946	1647
55°	1821	1790	1722	1642	1599	1617
65°	1258	1243	1197	1136	1103	1242
75°	657	673	652	622	605	704
85°	199	209	208	204	195	223
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1944.5	1944.5	1944.5	1944.5	1944.5
2.5°	1946.0	1947.4	1947.4	1947.4	1947.4
5°	1950.3	1951.7	1951.7	1951.7	1950.3
7.5°	1957.5	1957.5	1958.9	1957.5	1953.1
10°	1967.5	1967.5	1967.5	1966.1	1964.6
12.5°	1979.0	1980.4	1977.5	1976.1	1974.7
15°	1994.7	1994.7	1990.4	1986.1	1986.1
17.5°	2016.2	2013.4	2007.6	2000.5	1997.6
20°	2037.8	2034.9	2024.9	2013.4	2007.6
22.5°	2062.1	2056.4	2043.5	2027.7	2022.0
25°	2090.8	2082.2	2063.6	2042.1	2033.5
27.5°	2116.6	2105.2	2082.2	2057.8	2043.5
30°	2143.9	2129.5	2099.4	2067.9	2053.5
32.5°	2165.4	2151.0	2112.3	2076.5	2057.8
35°	2185.5	2166.8	2122.4	2077.9	2057.8
37.5°	2194.1	2174.0	2122.4	2070.7	2044.9
40°	2191.2	2169.7	2112.3	2053.5	2023.4
42.5°	2176.9	2151.0	2089.4	2023.4	1989.0
45°	2145.3	2116.6	2050.7	1980.4	1946.0
47.5°	2090.8	2062.1	1991.9	1917.3	1875.7
50°	2019.1	1989.0	1923.0	1839.9	1796.8
52.5°	1928.8	1898.7	1829.8	1745.2	1703.6
55°	1821.2	1789.7	1722.3	1642.0	1598.9
57.5°	1689.3	1666.3	1600.4	1524.4	1482.8
60°	1554.5	1531.5	1471.3	1399.6	1358.0
62.5°	1409.7	1391.0	1336.5	1269.1	1233.3
65°	1257.6	1243.3	1197.4	1135.8	1102.8
67.5°	1102.8	1097.0	1055.4	1002.4	973.7
70°	947.9	950.8	916.3	869.0	844.6
72.5°	797.3	807.4	780.1	741.4	724.2
75°	656.8	672.6	652.5	622.4	605.2
77.5°	526.3	547.8	530.6	507.6	493.3
80°	427.3	425.9	418.7	401.5	388.6
82.5°	306.9	312.6	308.3	298.3	291.1
85°	199.3	209.4	207.9	203.6	195.0
87.5°	98.9	110.4	111.9	109.0	104.7
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	17.7	19.5	18.1	19.8	20.1	17.1	18.8	17.4	19.1	19.4
	3H	19.6	21.1	19.9	21.5	21.8	18.9	20.4	19.2	20.8	21.1
	4H	20.2	21.7	20.6	22.1	22.4	19.5	21.0	19.9	21.4	21.8
	6H	20.7	22.1	21.2	22.5	22.9	20.1	21.5	20.5	21.8	22.2
	8H	20.9	22.3	21.4	22.7	23.1	20.3	21.6	20.7	22.0	22.4
	12H	21.1	22.4	21.5	22.7	23.2	20.5	21.7	20.9	22.1	22.5
4H	2H	18.3	19.8	18.7	20.2	20.5	17.8	19.3	18.2	19.6	20.0
	3H	20.4	21.6	20.8	22.0	22.4	19.8	21.1	20.2	21.5	21.9
	4H	21.2	22.3	21.6	22.8	23.2	20.6	21.8	21.1	22.2	22.6
	6H	21.9	22.9	22.3	23.3	23.8	21.3	22.3	21.8	22.8	23.2
	8H	22.1	23.1	22.6	23.5	24.0	21.6	22.5	22.0	23.0	23.4
	12H	22.3	23.2	22.8	23.7	24.1	21.8	22.7	22.3	23.1	23.6
8H	4H	21.5	22.5	22.0	22.9	23.4	21.0	22.0	21.5	22.4	22.9
	6H	22.3	23.1	22.8	23.6	24.1	21.8	22.6	22.3	23.1	23.6
	8H	22.7	23.4	23.2	23.9	24.4	22.2	22.9	22.7	23.4	23.9
	12H	23.0	23.6	23.5	24.1	24.6	22.5	23.2	23.0	23.6	24.2
12H	4H	21.6	22.4	22.0	22.9	23.3	21.1	21.9	21.6	22.4	22.9
	6H	22.4	23.1	22.9	23.6	24.1	22.0	22.7	22.5	23.1	23.7
	8H	22.8	23.4	23.3	23.9	24.5	22.4	23.0	22.9	23.5	24.0













(END OF REPORT)