

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: P1527161

Luminaire Tested: 24CGTX-80HE-F125-L840

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527161
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-L840
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

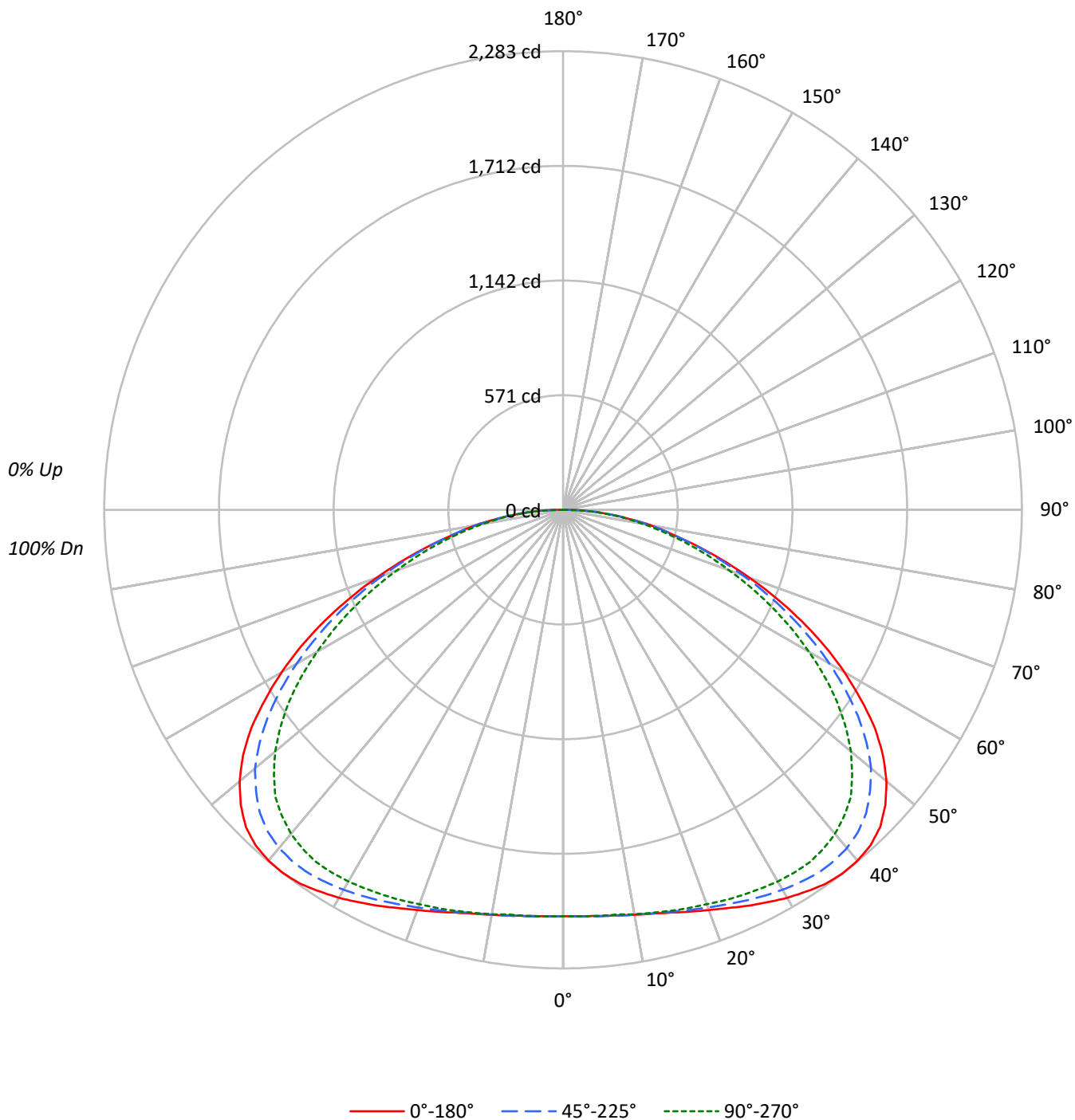
Lumens per Lamp: N/A
Luminaire Lumens: 8555.0 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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				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	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°	2722	2722	2722
5°	2740	2742	2740
10°	2797	2797	2792
15°	2891	2885	2878
20°	3036	3016	2991
25°	3229	3187	3141
30°	3465	3393	3319
35°	3735	3627	3517
40°	4004	3860	3697
45°	4247	4060	3852
50°	4397	4188	3913
55°	4445	4203	3902
60°	4352	4119	3802
65°	4166	3966	3653
70°	3880	3750	3457
75°	3552	3529	3273
80°	3445	3375	3133
85°	3202	3339	3132

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 55°
Luminance: 4445 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.3	2.3
10°-20°	588.5	6.9
20°-30°	994.0	11.6
30°-40°	1382.7	16.2
40°-50°	1636.8	19.1
50°-60°	1588.0	18.6
60°-70°	1223.5	14.3
70°-80°	713.9	8.3
80°-90°	233.3	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°	1776.8	20.8
0°-40°	3159.5	36.9
0°-60°	6384.3	74.6
0°-90°	8555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8555.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2023	2023	2023	2023	2023	
5°	2029	2030	2030	2030	2029	194
15°	2075	2075	2071	2066	2066	590
25°	2175	2166	2147	2124	2116	1008
35°	2274	2254	2208	2162	2141	1424
45°	2232	2202	2134	2060	2024	1714
55°	1895	1862	1792	1708	1664	1682
65°	1308	1294	1246	1182	1147	1292
75°	683	700	679	648	630	732
85°	207	218	216	212	203	232
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2023.1	2023.1	2023.1	2023.1	2023.1
2.5°	2024.5	2026.0	2026.0	2026.0	2026.0
5°	2029.0	2030.5	2030.5	2030.5	2029.0
7.5°	2036.5	2036.5	2038.0	2036.5	2032.0
10°	2046.9	2046.9	2046.9	2045.4	2043.9
12.5°	2058.9	2060.4	2057.4	2055.9	2054.4
15°	2075.3	2075.3	2070.8	2066.3	2066.3
17.5°	2097.7	2094.7	2088.7	2081.2	2078.3
20°	2120.0	2117.0	2106.6	2094.7	2088.7
22.5°	2145.4	2139.4	2126.0	2109.6	2103.6
25°	2175.2	2166.3	2146.9	2124.5	2115.6
27.5°	2202.1	2190.2	2166.3	2140.9	2126.0
30°	2230.4	2215.5	2184.2	2151.4	2136.4
32.5°	2252.8	2237.9	2197.6	2160.3	2140.9
35°	2273.7	2254.3	2208.1	2161.8	2140.9
37.5°	2282.7	2261.8	2208.1	2154.3	2127.5
40°	2279.7	2257.3	2197.6	2136.4	2105.1
42.5°	2264.7	2237.9	2173.7	2105.1	2069.3
45°	2231.9	2202.1	2133.5	2060.4	2024.5
47.5°	2175.2	2145.4	2072.3	1994.7	1951.4
50°	2100.6	2069.3	2000.7	1914.1	1869.4
52.5°	2006.6	1975.3	1903.7	1815.7	1772.4
55°	1894.7	1861.9	1791.8	1708.3	1663.5
57.5°	1757.5	1733.6	1665.0	1585.9	1542.7
60°	1617.3	1593.4	1530.7	1456.1	1412.9
62.5°	1466.6	1447.2	1390.5	1320.4	1283.1
65°	1308.4	1293.5	1245.8	1181.6	1147.3
67.5°	1147.3	1141.3	1098.1	1042.9	1013.0
70°	986.2	989.1	953.3	904.1	878.7
72.5°	829.5	840.0	811.6	771.3	753.4
75°	683.3	699.7	678.8	647.5	629.6
77.5°	547.5	569.9	552.0	528.1	513.2
80°	444.6	443.1	435.6	417.7	404.3
82.5°	319.3	325.2	320.8	310.3	302.9
85°	207.4	217.8	216.3	211.9	202.9
87.5°	102.9	114.9	116.4	113.4	108.9
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	17.9	19.6	18.2	19.9	20.2	17.2	18.9	17.6	19.3	19.6
	3H	19.7	21.3	20.1	21.6	22.0	19.0	20.6	19.4	20.9	21.3
	4H	20.4	21.8	20.8	22.2	22.6	19.7	21.2	20.1	21.5	21.9
	6H	20.9	22.3	21.3	22.6	23.0	20.2	21.6	20.6	22.0	22.4
	8H	21.1	22.4	21.5	22.8	23.2	20.4	21.8	20.9	22.2	22.6
	12H	21.2	22.5	21.7	22.9	23.3	20.6	21.9	21.0	22.3	22.7
4H	2H	18.5	20.0	18.9	20.3	20.7	17.9	19.4	18.3	19.8	20.2
	3H	20.5	21.8	20.9	22.2	22.6	19.9	21.2	20.4	21.6	22.0
	4H	21.3	22.5	21.8	22.9	23.3	20.8	21.9	21.2	22.3	22.8
	6H	22.0	23.0	22.5	23.5	23.9	21.5	22.5	21.9	22.9	23.3
	8H	22.3	23.2	22.7	23.6	24.1	21.7	22.7	22.2	23.1	23.6
	12H	22.5	23.3	22.9	23.8	24.3	21.9	22.8	22.4	23.3	23.7
8H	4H	21.7	22.6	22.1	23.0	23.5	21.2	22.1	21.6	22.5	23.0
	6H	22.5	23.3	23.0	23.7	24.2	22.0	22.8	22.5	23.3	23.7
	8H	22.8	23.5	23.3	24.0	24.5	22.3	23.0	22.8	23.6	24.0
	12H	23.1	23.7	23.6	24.2	24.8	22.7	23.3	23.2	23.8	24.3
12H	4H	21.7	22.5	22.2	23.0	23.5	21.2	22.1	21.7	22.5	23.0
	6H	22.6	23.3	23.1	23.7	24.3	22.1	22.8	22.6	23.3	23.8
	8H	23.0	23.6	23.5	24.1	24.6	22.5	23.1	23.0	23.6	24.2













(END OF REPORT)