

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: P1527162

Luminaire Tested: 24CGTX-80HE-F125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527162
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-L850
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

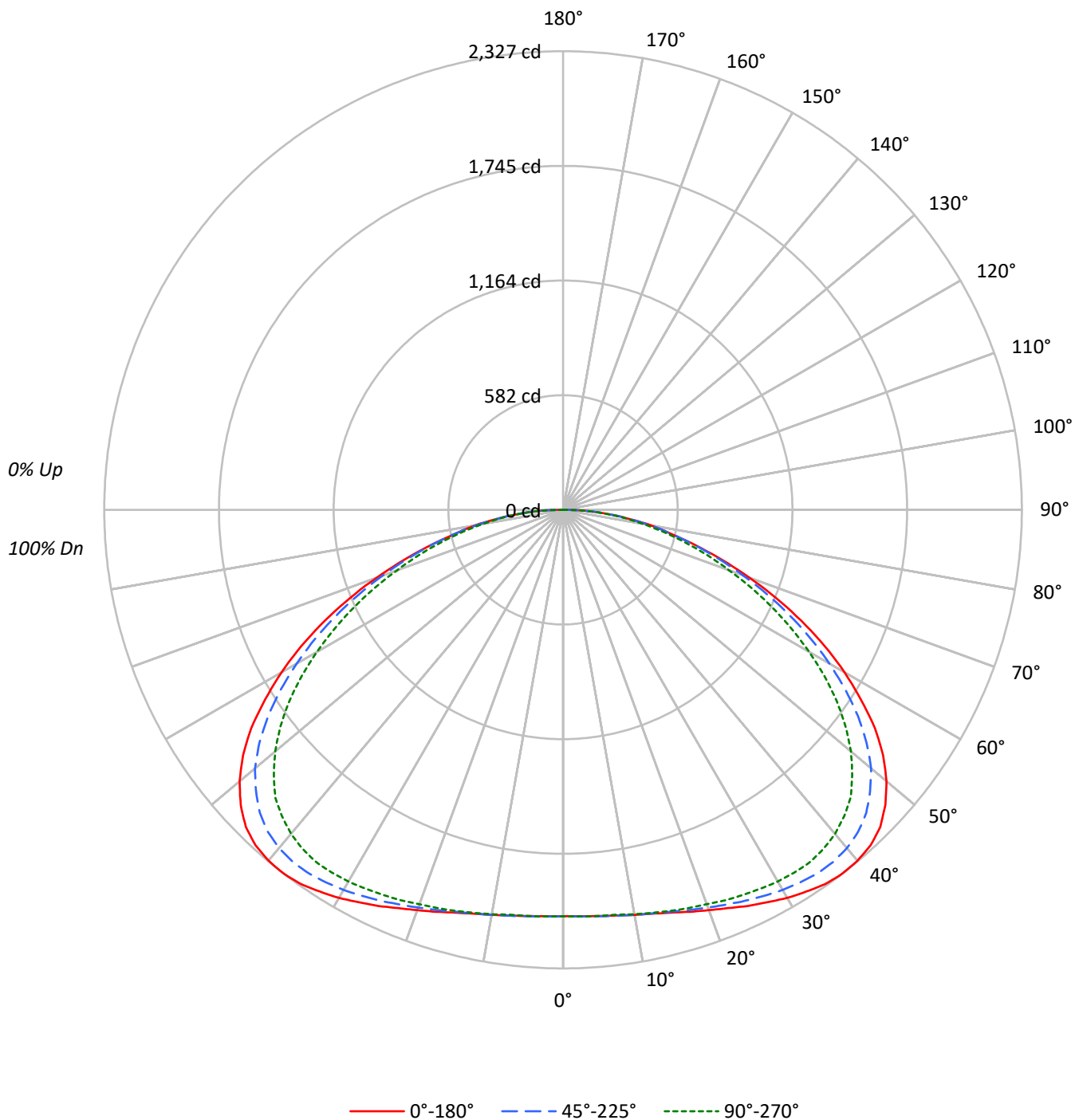
Lumens per Lamp: N/A
Luminaire Lumens: 8721.0 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2775	2775	2775
5°	2794	2796	2794
10°	2851	2851	2847
15°	2947	2941	2934
20°	3094	3075	3049
25°	3292	3249	3202
30°	3533	3459	3384
35°	3807	3697	3585
40°	4082	3935	3769
45°	4329	4138	3927
50°	4482	4269	3989
55°	4531	4285	3978
60°	4436	4199	3876
65°	4246	4043	3724
70°	3955	3823	3524
75°	3621	3597	3336
80°	3512	3441	3194
85°	3264	3404	3193

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 4531 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.0	2.3
10°-20°	599.9	6.9
20°-30°	1013.3	11.6
30°-40°	1409.5	16.2
40°-50°	1668.5	19.1
50°-60°	1618.8	18.6
60°-70°	1247.3	14.3
70°-80°	727.8	8.3
80°-90°	237.8	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°	1811.3	20.8
0°-40°	3220.8	36.9
0°-60°	6508.1	74.6
0°-90°	8721.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8721.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2062	2062	2062	2062	2062	
5°	2068	2070	2070	2070	2068	198
15°	2116	2116	2111	2106	2106	602
25°	2217	2208	2188	2166	2157	1028
35°	2318	2298	2251	2204	2182	1452
45°	2275	2245	2175	2100	2064	1747
55°	1932	1898	1827	1741	1696	1715
65°	1334	1319	1270	1204	1170	1317
75°	697	713	692	660	642	746
85°	211	222	220	216	207	236
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2062.3	2062.3	2062.3	2062.3	2062.3
2.5°	2063.8	2065.4	2065.4	2065.4	2065.4
5°	2068.4	2069.9	2069.9	2069.9	2068.4
7.5°	2076.0	2076.0	2077.5	2076.0	2071.4
10°	2086.6	2086.6	2086.6	2085.1	2083.6
12.5°	2098.8	2100.3	2097.3	2095.8	2094.2
15°	2115.5	2115.5	2111.0	2106.4	2106.4
17.5°	2138.4	2135.3	2129.2	2121.6	2118.6
20°	2161.2	2158.1	2147.5	2135.3	2129.2
22.5°	2187.0	2180.9	2167.3	2150.5	2144.4
25°	2217.4	2208.3	2188.5	2165.7	2156.6
27.5°	2244.8	2232.6	2208.3	2182.5	2167.3
30°	2273.7	2258.5	2226.6	2193.1	2177.9
32.5°	2296.5	2281.3	2240.3	2202.2	2182.5
35°	2317.8	2298.0	2250.9	2203.8	2182.5
37.5°	2326.9	2305.7	2250.9	2196.1	2168.8
40°	2323.9	2301.1	2240.3	2177.9	2146.0
42.5°	2308.7	2281.3	2215.9	2146.0	2109.5
45°	2275.2	2244.8	2174.9	2100.3	2063.8
47.5°	2217.4	2187.0	2112.5	2033.4	1989.3
50°	2141.4	2109.5	2039.5	1951.3	1905.7
52.5°	2045.6	2013.6	1940.6	1850.9	1806.8
55°	1931.5	1898.1	1826.6	1741.4	1695.8
57.5°	1791.6	1767.3	1697.3	1616.7	1572.6
60°	1648.6	1624.3	1560.4	1484.4	1440.3
62.5°	1495.0	1475.3	1417.5	1346.0	1308.0
65°	1333.8	1318.6	1269.9	1204.5	1169.6
67.5°	1169.6	1163.5	1119.4	1063.1	1032.7
70°	1005.3	1008.3	971.8	921.7	895.8
72.5°	845.6	856.3	827.4	786.3	768.0
75°	696.6	713.3	692.0	660.1	641.8
77.5°	558.2	581.0	562.7	538.4	523.2
80°	453.2	451.7	444.1	425.8	412.2
82.5°	325.5	331.6	327.0	316.3	308.7
85°	211.4	222.0	220.5	216.0	206.8
87.5°	104.9	117.1	118.6	115.6	111.0
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	19.7	18.3	20.0	20.3	17.3	19.0	17.6	19.3	19.6
	3H	19.8	21.3	20.1	21.7	22.0	19.1	20.6	19.4	21.0	21.3
	4H	20.4	21.9	20.8	22.3	22.6	19.7	21.2	20.1	21.6	22.0
	6H	21.0	22.3	21.4	22.7	23.1	20.3	21.7	20.7	22.0	22.4
	8H	21.1	22.5	21.6	22.9	23.3	20.5	21.8	20.9	22.2	22.6
	12H	21.3	22.6	21.7	22.9	23.4	20.7	21.9	21.1	22.3	22.8
4H	2H	18.5	20.0	18.9	20.4	20.7	18.0	19.5	18.4	19.8	20.2
	3H	20.6	21.8	21.0	22.2	22.6	20.0	21.3	20.4	21.7	22.1
	4H	21.4	22.5	21.8	23.0	23.4	20.8	22.0	21.3	22.4	22.8
	6H	22.1	23.1	22.5	23.5	24.0	21.5	22.5	22.0	23.0	23.4
	8H	22.3	23.3	22.8	23.7	24.2	21.8	22.7	22.2	23.2	23.6
	12H	22.5	23.4	23.0	23.9	24.3	22.0	22.9	22.5	23.3	23.8
8H	4H	21.7	22.7	22.2	23.1	23.6	21.2	22.2	21.7	22.6	23.1
	6H	22.5	23.3	23.0	23.8	24.3	22.1	22.8	22.5	23.3	23.8
	8H	22.9	23.6	23.4	24.1	24.6	22.4	23.1	22.9	23.6	24.1
	12H	23.2	23.8	23.7	24.3	24.9	22.7	23.4	23.2	23.8	24.4
12H	4H	21.8	22.6	22.2	23.1	23.6	21.3	22.1	21.8	22.6	23.1
	6H	22.6	23.3	23.1	23.8	24.3	22.2	22.9	22.7	23.3	23.9
	8H	23.0	23.6	23.5	24.1	24.7	22.6	23.2	23.1	23.7	24.2















(END OF REPORT)