

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: P1527160

Luminaire Tested: 24CGTX-80HE-F125-L835

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527160
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-L835
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

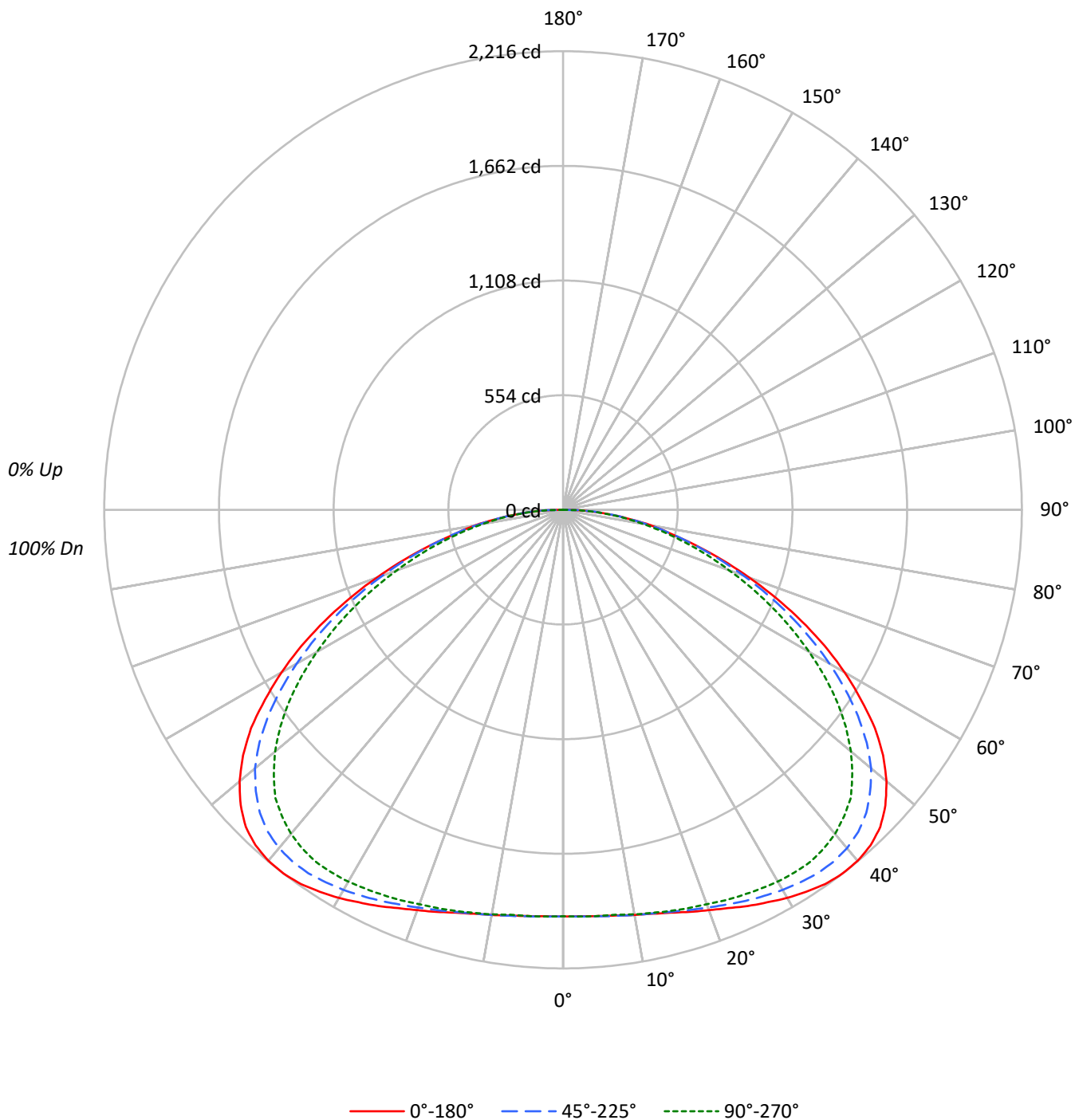
Lumens per Lamp: N/A
Luminaire Lumens: 8306.2 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2643	2643	2643
5°	2661	2663	2661
10°	2715	2715	2711
15°	2807	2801	2795
20°	2947	2929	2904
25°	3135	3094	3049
30°	3365	3295	3223
35°	3626	3521	3414
40°	3888	3748	3590
45°	4123	3941	3740
50°	4269	4066	3799
55°	4315	4081	3789
60°	4225	3999	3691
65°	4045	3851	3546
70°	3767	3641	3356
75°	3449	3426	3178
80°	3345	3278	3042
85°	3108	3242	3041

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 4315 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.6	2.3
10°-20°	571.4	6.9
20°-30°	965.1	11.6
30°-40°	1342.5	16.2
40°-50°	1589.2	19.1
50°-60°	1541.8	18.6
60°-70°	1187.9	14.3
70°-80°	693.1	8.3
80°-90°	226.5	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°	1725.1	20.8
0°-40°	3067.6	36.9
0°-60°	6198.6	74.6
0°-90°	8306.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8306.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1964	1964	1964	1964	1964	
5°	1970	1971	1971	1971	1970	189
15°	2015	2015	2011	2006	2006	573
25°	2112	2103	2084	2063	2054	979
35°	2208	2189	2144	2099	2079	1383
45°	2167	2138	2071	2000	1966	1664
55°	1840	1808	1740	1659	1615	1633
65°	1270	1256	1210	1147	1114	1255
75°	663	679	659	629	611	711
85°	201	212	210	206	197	225
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1964.2	1964.2	1964.2	1964.2	1964.2
2.5°	1965.7	1967.1	1967.1	1967.1	1967.1
5°	1970.0	1971.4	1971.4	1971.4	1970.0
7.5°	1977.2	1977.2	1978.7	1977.2	1972.9
10°	1987.4	1987.4	1987.4	1985.9	1984.5
12.5°	1999.0	2000.4	1997.5	1996.1	1994.6
15°	2014.9	2014.9	2010.6	2006.2	2006.2
17.5°	2036.6	2033.7	2027.9	2020.7	2017.8
20°	2058.4	2055.5	2045.3	2033.7	2027.9
22.5°	2083.0	2077.2	2064.2	2048.2	2042.4
25°	2112.0	2103.3	2084.4	2062.7	2054.0
27.5°	2138.0	2126.4	2103.3	2078.6	2064.2
30°	2165.6	2151.1	2120.6	2088.8	2074.3
32.5°	2187.3	2172.8	2133.7	2097.5	2078.6
35°	2207.6	2188.7	2143.8	2098.9	2078.6
37.5°	2216.2	2196.0	2143.8	2091.7	2065.6
40°	2213.4	2191.6	2133.7	2074.3	2043.9
42.5°	2198.9	2172.8	2110.5	2043.9	2009.1
45°	2167.0	2138.0	2071.4	2000.4	1965.7
47.5°	2112.0	2083.0	2012.0	1936.7	1894.7
50°	2039.5	2009.1	1942.5	1858.5	1815.0
52.5°	1948.3	1917.9	1848.3	1762.9	1720.9
55°	1839.6	1807.8	1739.7	1658.6	1615.1
57.5°	1706.4	1683.2	1616.6	1539.8	1497.8
60°	1570.2	1547.0	1486.2	1413.8	1371.8
62.5°	1423.9	1405.1	1350.0	1281.9	1245.7
65°	1270.4	1255.9	1209.5	1147.2	1113.9
67.5°	1113.9	1108.1	1066.1	1012.5	983.6
70°	957.5	960.4	925.6	877.8	853.2
72.5°	805.4	815.5	788.0	748.9	731.5
75°	663.4	679.4	659.1	628.7	611.3
77.5°	531.6	553.3	536.0	512.8	498.3
80°	431.7	430.2	423.0	405.6	392.6
82.5°	310.0	315.8	311.4	301.3	294.1
85°	201.3	211.5	210.0	205.7	197.0
87.5°	99.9	111.5	113.0	110.1	105.7
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	17.8	19.5	18.1	19.8	20.1	17.1	18.8	17.5	19.1	19.5
	3H	19.6	21.2	20.0	21.5	21.8	18.9	20.5	19.3	20.8	21.2
	4H	20.3	21.7	20.7	22.1	22.5	19.6	21.1	20.0	21.4	21.8
	6H	20.8	22.2	21.2	22.5	22.9	20.1	21.5	20.5	21.9	22.3
	8H	21.0	22.3	21.4	22.7	23.1	20.3	21.7	20.8	22.1	22.4
	12H	21.1	22.4	21.5	22.8	23.2	20.5	21.8	20.9	22.2	22.6
4H	2H	18.4	19.9	18.8	20.2	20.6	17.8	19.3	18.2	19.7	20.0
	3H	20.4	21.7	20.8	22.1	22.5	19.8	21.1	20.3	21.5	21.9
	4H	21.2	22.4	21.7	22.8	23.2	20.7	21.8	21.1	22.2	22.7
	6H	21.9	22.9	22.4	23.4	23.8	21.4	22.4	21.8	22.8	23.2
	8H	22.2	23.1	22.6	23.5	24.0	21.6	22.6	22.1	23.0	23.5
	12H	22.4	23.2	22.8	23.7	24.2	21.8	22.7	22.3	23.2	23.6
8H	4H	21.5	22.5	22.0	22.9	23.4	21.1	22.0	21.5	22.4	22.9
	6H	22.4	23.2	22.9	23.6	24.1	21.9	22.7	22.4	23.2	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	24.7	22.6	23.2	23.1	23.7	24.2
12H	4H	21.6	22.4	22.1	22.9	23.4	21.1	22.0	21.6	22.4	22.9
	6H	22.5	23.2	23.0	23.6	24.2	22.0	22.7	22.5	23.2	23.7
	8H	22.8	23.5	23.4	24.0	24.5	22.4	23.0	22.9	23.5	24.1















(END OF REPORT)