

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: P1527142

Luminaire Tested: 24CGTX-65HE-F125-L835

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527142
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-65HE-F125-L835
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

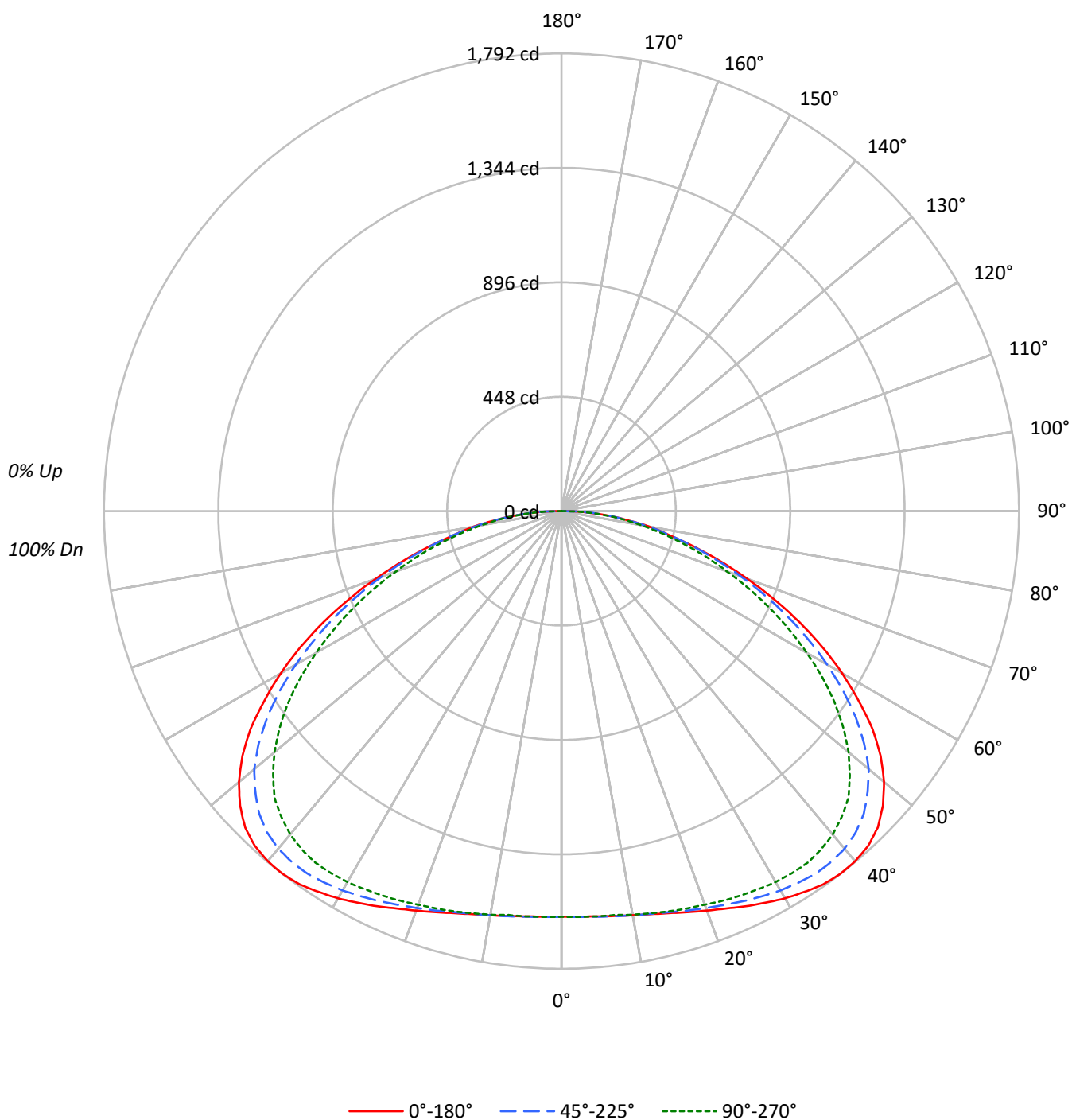
Lumens per Lamp: N/A
Luminaire Lumens: 6715.5 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 49.9
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				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°	2137	2137	2137
5°	2151	2153	2151
10°	2195	2195	2192
15°	2269	2264	2259
20°	2383	2368	2348
25°	2535	2502	2465
30°	2720	2664	2606
35°	2932	2847	2760
40°	3143	3030	2902
45°	3334	3187	3024
50°	3452	3287	3072
55°	3489	3299	3063
60°	3416	3233	2985
65°	3270	3113	2867
70°	3045	2944	2714
75°	2789	2770	2569
80°	2704	2650	2459
85°	2513	2621	2459

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 3489 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.5	2.3
10°-20°	462.0	6.9
20°-30°	780.3	11.6
30°-40°	1085.4	16.2
40°-50°	1284.8	19.1
50°-60°	1246.5	18.6
60°-70°	960.4	14.3
70°-80°	560.4	8.3
80°-90°	183.1	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°	1394.7	20.8
0°-40°	2480.1	36.9
0°-60°	5011.5	74.6
0°-90°	6715.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6715.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1588	1588	1588	1588	1588	
5°	1593	1594	1594	1594	1593	152
15°	1629	1629	1626	1622	1622	463
25°	1708	1700	1685	1668	1661	791
35°	1785	1770	1733	1697	1681	1118
45°	1752	1729	1675	1617	1589	1345
55°	1487	1462	1406	1341	1306	1320
65°	1027	1015	978	928	901	1014
75°	536	549	533	508	494	575
85°	163	171	170	166	159	182
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1588.1	1588.1	1588.1	1588.1	1588.1
2.5°	1589.2	1590.4	1590.4	1590.4	1590.4
5°	1592.7	1593.9	1593.9	1593.9	1592.7
7.5°	1598.6	1598.6	1599.8	1598.6	1595.1
10°	1606.8	1606.8	1606.8	1605.6	1604.5
12.5°	1616.2	1617.3	1615.0	1613.8	1612.6
15°	1629.0	1629.0	1625.5	1622.0	1622.0
17.5°	1646.6	1644.3	1639.6	1633.7	1631.4
20°	1664.2	1661.8	1653.6	1644.3	1639.6
22.5°	1684.1	1679.4	1668.9	1656.0	1651.3
25°	1707.5	1700.5	1685.3	1667.7	1660.7
27.5°	1728.6	1719.2	1700.5	1680.6	1668.9
30°	1750.8	1739.1	1714.5	1688.8	1677.1
32.5°	1768.4	1756.7	1725.1	1695.8	1680.6
35°	1784.8	1769.6	1733.3	1697.0	1680.6
37.5°	1791.8	1775.4	1733.3	1691.1	1670.0
40°	1789.5	1771.9	1725.1	1677.1	1652.5
42.5°	1777.8	1756.7	1706.3	1652.5	1624.4
45°	1752.0	1728.6	1674.7	1617.3	1589.2
47.5°	1707.5	1684.1	1626.7	1565.8	1531.8
50°	1649.0	1624.4	1570.5	1502.6	1467.4
52.5°	1575.2	1550.6	1494.4	1425.3	1391.3
55°	1487.3	1461.6	1406.5	1340.9	1305.8
57.5°	1379.6	1360.9	1307.0	1244.9	1211.0
60°	1269.5	1250.8	1201.6	1143.0	1109.1
62.5°	1151.2	1136.0	1091.5	1036.5	1007.2
65°	1027.1	1015.4	977.9	927.5	900.6
67.5°	900.6	895.9	862.0	818.6	795.2
70°	774.1	776.5	748.4	709.7	689.8
72.5°	651.1	659.3	637.1	605.5	591.4
75°	536.4	549.3	532.9	508.3	494.2
77.5°	429.8	447.4	433.3	414.6	402.9
80°	349.0	347.8	342.0	327.9	317.4
82.5°	250.6	255.3	251.8	243.6	237.7
85°	162.8	171.0	169.8	166.3	159.3
87.5°	80.8	90.2	91.3	89.0	85.5
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	17.0	18.8	17.4	19.1	19.4	16.4	18.1	16.7	18.4	18.7
	3H	18.8	20.4	19.2	20.8	21.1	18.1	19.7	18.5	20.1	20.4
	4H	19.5	21.0	19.9	21.4	21.7	18.8	20.3	19.2	20.7	21.1
	6H	20.0	21.4	20.5	21.8	22.2	19.4	20.8	19.8	21.1	21.5
	8H	20.2	21.6	20.7	22.0	22.3	19.6	20.9	20.0	21.3	21.7
	12H	20.4	21.7	20.8	22.0	22.5	19.8	21.0	20.2	21.4	21.8
4H	2H	17.6	19.1	18.0	19.5	19.8	17.1	18.6	17.5	18.9	19.3
	3H	19.7	20.9	20.1	21.3	21.7	19.1	20.4	19.5	20.8	21.2
	4H	20.5	21.6	20.9	22.0	22.5	19.9	21.1	20.4	21.5	21.9
	6H	21.2	22.2	21.6	22.6	23.1	20.6	21.6	21.1	22.1	22.5
	8H	21.4	22.4	21.9	22.8	23.3	20.9	21.8	21.3	22.3	22.7
	12H	21.6	22.5	22.1	23.0	23.4	21.1	22.0	21.6	22.4	22.9
8H	4H	20.8	21.8	21.3	22.2	22.7	20.3	21.3	20.8	21.7	22.2
	6H	21.6	22.4	22.1	22.9	23.4	21.1	21.9	21.6	22.4	22.9
	8H	22.0	22.7	22.5	23.2	23.7	21.5	22.2	22.0	22.7	23.2
	12H	22.3	22.9	22.8	23.4	23.9	21.8	22.4	22.3	22.9	23.5
12H	4H	20.9	21.7	21.3	22.2	22.6	20.4	21.2	20.8	21.7	22.2
	6H	21.7	22.4	22.2	22.9	23.4	21.3	22.0	21.8	22.4	23.0
	8H	22.1	22.7	22.6	23.2	23.8	21.7	22.3	22.2	22.8	23.3















(END OF REPORT)