

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: P1527147

Luminaire Tested: 24CGTX-65HE-F125-L940

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527147
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-L940
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

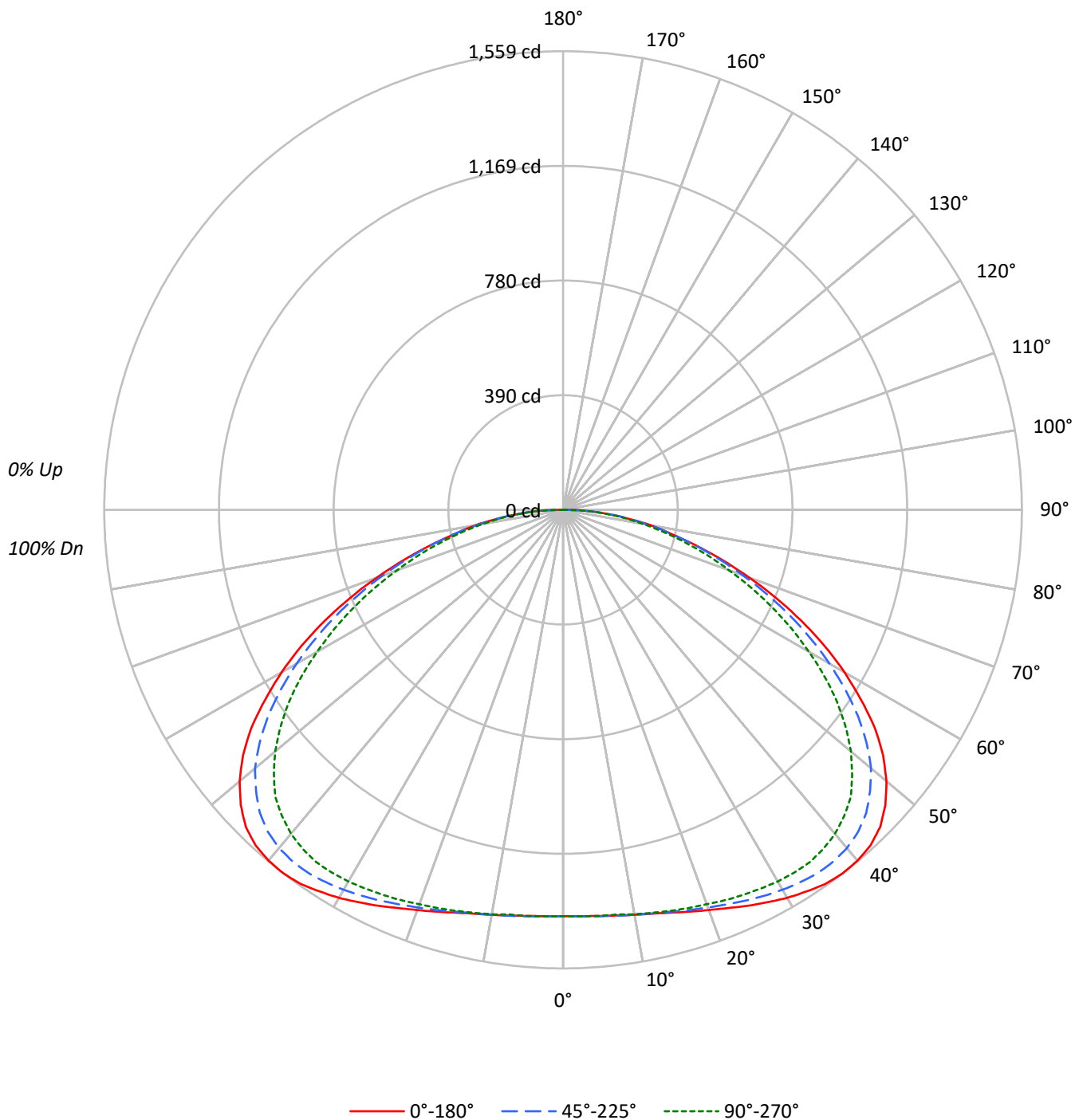
Lumens per Lamp: N/A
Luminaire Lumens: 5842.0 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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			
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
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°	1859	1859	1859
5°	1871	1873	1871
10°	1910	1910	1907
15°	1974	1970	1965
20°	2073	2060	2042
25°	2205	2177	2145
30°	2366	2317	2267
35°	2550	2477	2401
40°	2734	2636	2525
45°	2900	2772	2631
50°	3003	2860	2672
55°	3035	2870	2665
60°	2972	2813	2596
65°	2845	2708	2494
70°	2649	2561	2361
75°	2426	2410	2235
80°	2352	2305	2139
85°	2186	2280	2140

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 55°
Luminance: 3035 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.7	2.3
10°-20°	401.9	6.9
20°-30°	678.8	11.6
30°-40°	944.2	16.2
40°-50°	1117.7	19.1
50°-60°	1084.4	18.6
60°-70°	835.5	14.3
70°-80°	487.5	8.3
80°-90°	159.3	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°	1213.3	20.8
0°-40°	2157.5	36.9
0°-60°	4359.7	74.6
0°-90°	5842.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5842.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1382	1382	1382	1382	1382	
5°	1386	1387	1387	1387	1386	133
15°	1417	1417	1414	1411	1411	403
25°	1485	1479	1466	1451	1445	688
35°	1553	1539	1508	1476	1462	973
45°	1524	1504	1457	1407	1382	1170
55°	1294	1272	1224	1166	1136	1149
65°	894	883	851	807	784	883
75°	467	478	464	442	430	500
85°	142	149	148	145	139	158
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1381.5	1381.5	1381.5	1381.5	1381.5
2.5°	1382.5	1383.5	1383.5	1383.5	1383.5
5°	1385.6	1386.6	1386.6	1386.6	1385.6
7.5°	1390.7	1390.7	1391.7	1390.7	1387.6
10°	1397.8	1397.8	1397.8	1396.8	1395.8
12.5°	1405.9	1407.0	1404.9	1403.9	1402.9
15°	1417.2	1417.2	1414.1	1411.0	1411.0
17.5°	1432.4	1430.4	1426.3	1421.2	1419.2
20°	1447.7	1445.7	1438.5	1430.4	1426.3
22.5°	1465.0	1461.0	1451.8	1440.6	1436.5
25°	1485.4	1479.3	1466.1	1450.8	1444.7
27.5°	1503.8	1495.6	1479.3	1462.0	1451.8
30°	1523.1	1512.9	1491.5	1469.1	1458.9
32.5°	1538.4	1528.2	1500.7	1475.2	1462.0
35°	1552.7	1539.4	1507.8	1476.2	1462.0
37.5°	1558.8	1544.5	1507.8	1471.1	1452.8
40°	1556.7	1541.4	1500.7	1458.9	1437.5
42.5°	1546.5	1528.2	1484.4	1437.5	1413.1
45°	1524.1	1503.8	1456.9	1407.0	1382.5
47.5°	1485.4	1465.0	1415.1	1362.1	1332.6
50°	1434.5	1413.1	1366.2	1307.1	1276.6
52.5°	1370.3	1348.9	1300.0	1239.9	1210.3
55°	1293.9	1271.5	1223.6	1166.5	1136.0
57.5°	1200.1	1183.8	1137.0	1083.0	1053.4
60°	1104.4	1088.1	1045.3	994.4	964.8
62.5°	1001.5	988.2	949.5	901.6	876.2
65°	893.5	883.3	850.7	806.9	783.5
67.5°	783.5	779.4	749.8	712.1	691.8
70°	673.4	675.5	651.0	617.4	600.1
72.5°	566.5	573.6	554.2	526.7	514.5
75°	466.6	477.8	463.6	442.2	429.9
77.5°	373.9	389.2	377.0	360.7	350.5
80°	303.6	302.6	297.5	285.3	276.1
82.5°	218.0	222.1	219.0	211.9	206.8
85°	141.6	148.7	147.7	144.7	138.6
87.5°	70.3	78.4	79.5	77.4	74.4
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	16.5	18.3	16.9	18.6	18.9	15.9	17.6	16.2	17.9	18.2
	3H	18.4	19.9	18.7	20.3	20.6	17.7	19.2	18.0	19.6	19.9
	4H	19.0	20.5	19.4	20.9	21.2	18.4	19.8	18.8	20.2	20.6
	6H	19.6	20.9	20.0	21.3	21.7	18.9	20.3	19.3	20.7	21.0
	8H	19.8	21.1	20.2	21.5	21.9	19.1	20.4	19.5	20.8	21.2
	12H	19.9	21.2	20.3	21.6	22.0	19.3	20.6	19.7	20.9	21.4
4H	2H	17.1	18.6	17.5	19.0	19.4	16.6	18.1	17.0	18.5	18.8
	3H	19.2	20.5	19.6	20.8	21.2	18.6	19.9	19.0	20.3	20.7
	4H	20.0	21.2	20.4	21.6	22.0	19.4	20.6	19.9	21.0	21.4
	6H	20.7	21.7	21.1	22.1	22.6	20.1	21.1	20.6	21.6	22.0
	8H	20.9	21.9	21.4	22.3	22.8	20.4	21.3	20.9	21.8	22.2
	12H	21.1	22.0	21.6	22.5	22.9	20.6	21.5	21.1	21.9	22.4
8H	4H	20.3	21.3	20.8	21.7	22.2	19.8	20.8	20.3	21.2	21.7
	6H	21.1	21.9	21.6	22.4	22.9	20.7	21.4	21.2	21.9	22.4
	8H	21.5	22.2	22.0	22.7	23.2	21.0	21.7	21.5	22.2	22.7
	12H	21.8	22.4	22.3	22.9	23.5	21.3	22.0	21.8	22.5	23.0
12H	4H	20.4	21.2	20.8	21.7	22.2	19.9	20.7	20.4	21.2	21.7
	6H	21.2	21.9	21.7	22.4	22.9	20.8	21.5	21.3	21.9	22.5
	8H	21.6	22.3	22.1	22.7	23.3	21.2	21.8	21.7	22.3	22.8















(END OF REPORT)