

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: P1527131

Luminaire Tested: 24CGTX-55HE-F125-L835

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527131
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-55HE-F125-L835
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

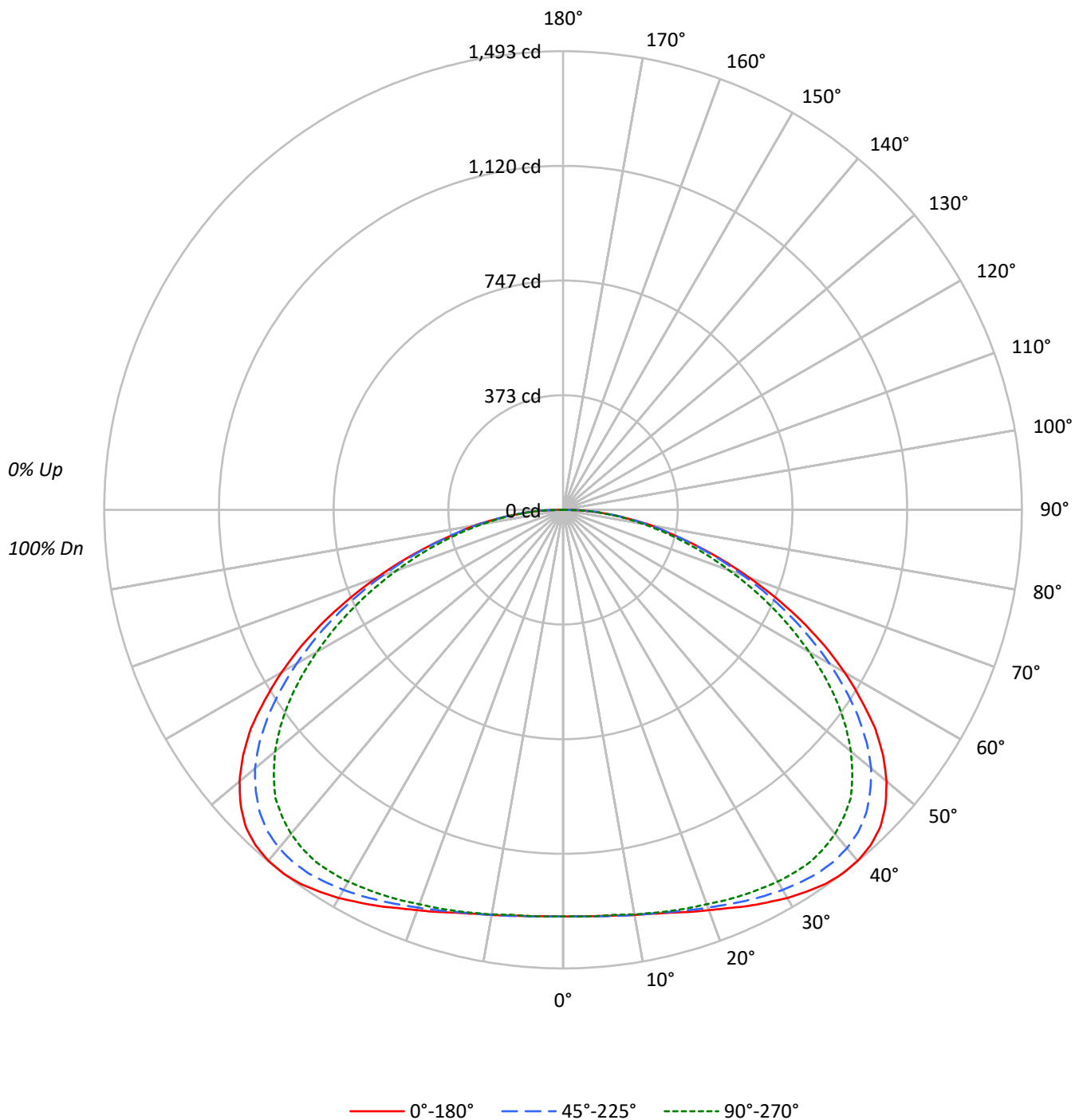
Lumens per Lamp: N/A
Luminaire Lumens: 5596.4 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.3
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		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°	1781	1781	1781
5°	1793	1794	1793
10°	1829	1829	1827
15°	1891	1887	1883
20°	1986	1973	1956
25°	2113	2085	2055
30°	2267	2220	2171
35°	2443	2372	2300
40°	2619	2525	2419
45°	2778	2656	2520
50°	2876	2740	2560
55°	2908	2749	2553
60°	2847	2694	2487
65°	2725	2594	2389
70°	2538	2453	2261
75°	2324	2309	2141
80°	2253	2208	2049
85°	2095	2184	2049

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 55°
Luminance: 2908 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.1	2.3
10°-20°	385.0	6.9
20°-30°	650.2	11.6
30°-40°	904.5	16.2
40°-50°	1070.7	19.1
50°-60°	1038.8	18.6
60°-70°	800.4	14.3
70°-80°	467.0	8.3
80°-90°	152.6	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°	1162.3	20.8
0°-40°	2066.8	36.9
0°-60°	4176.4	74.6
0°-90°	5596.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5596.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1323	1323	1323	1323	1323	
5°	1327	1328	1328	1328	1327	127
15°	1358	1358	1355	1352	1352	386
25°	1423	1417	1404	1390	1384	659
35°	1487	1475	1444	1414	1400	932
45°	1460	1440	1396	1348	1324	1121
55°	1240	1218	1172	1118	1088	1100
65°	856	846	815	773	750	845
75°	447	458	444	424	412	479
85°	136	142	142	139	133	152
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1323.4	1323.4	1323.4	1323.4	1323.4
2.5°	1324.4	1325.4	1325.4	1325.4	1325.4
5°	1327.3	1328.3	1328.3	1328.3	1327.3
7.5°	1332.2	1332.2	1333.2	1332.2	1329.3
10°	1339.0	1339.0	1339.0	1338.1	1337.1
12.5°	1346.8	1347.8	1345.9	1344.9	1343.9
15°	1357.6	1357.6	1354.7	1351.7	1351.7
17.5°	1372.2	1370.3	1366.4	1361.5	1359.5
20°	1386.9	1384.9	1378.1	1370.3	1366.4
22.5°	1403.4	1399.5	1390.8	1380.0	1376.1
25°	1423.0	1417.1	1404.4	1389.8	1383.9
27.5°	1440.5	1432.7	1417.1	1400.5	1390.8
30°	1459.1	1449.3	1428.8	1407.4	1397.6
32.5°	1473.7	1464.0	1437.6	1413.2	1400.5
35°	1487.4	1474.7	1444.4	1414.2	1400.5
37.5°	1493.2	1479.6	1444.4	1409.3	1391.7
40°	1491.3	1476.6	1437.6	1397.6	1377.1
42.5°	1481.5	1464.0	1422.0	1377.1	1353.7
45°	1460.1	1440.5	1395.6	1347.8	1324.4
47.5°	1423.0	1403.4	1355.6	1304.9	1276.6
50°	1374.2	1353.7	1308.8	1252.2	1222.9
52.5°	1312.7	1292.2	1245.3	1187.8	1159.5
55°	1239.5	1218.0	1172.1	1117.5	1088.2
57.5°	1149.7	1134.1	1089.2	1037.5	1009.2
60°	1058.0	1042.3	1001.3	952.6	924.2
62.5°	959.4	946.7	909.6	863.7	839.3
65°	855.9	846.2	814.9	773.0	750.5
67.5°	750.5	746.6	718.3	682.2	662.7
70°	645.1	647.1	623.6	591.4	574.8
72.5°	542.6	549.5	530.9	504.6	492.9
75°	447.0	457.7	444.1	423.6	411.9
77.5°	358.2	372.8	361.1	345.5	335.7
80°	290.8	289.9	285.0	273.3	264.5
82.5°	208.9	212.8	209.8	203.0	198.1
85°	135.7	142.5	141.5	138.6	132.7
87.5°	67.3	75.1	76.1	74.2	71.2
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	16.4	18.1	16.8	18.4	18.8	15.7	17.5	16.1	17.8	18.1
	3H	18.2	19.8	18.6	20.1	20.5	17.5	19.1	17.9	19.4	19.8
	4H	18.9	20.4	19.3	20.7	21.1	18.2	19.7	18.6	20.0	20.4
	6H	19.4	20.8	19.8	21.2	21.5	18.8	20.1	19.2	20.5	20.9
	8H	19.6	20.9	20.0	21.3	21.7	19.0	20.3	19.4	20.7	21.1
	12H	19.7	21.0	20.2	21.4	21.8	19.1	20.4	19.6	20.8	21.2
4H	2H	17.0	18.5	17.4	18.8	19.2	16.5	18.0	16.9	18.3	18.7
	3H	19.0	20.3	19.5	20.7	21.1	18.5	19.7	18.9	20.1	20.5
	4H	19.9	21.0	20.3	21.4	21.8	19.3	20.4	19.7	20.8	21.3
	6H	20.5	21.5	21.0	22.0	22.4	20.0	21.0	20.4	21.4	21.9
	8H	20.8	21.7	21.2	22.2	22.6	20.2	21.2	20.7	21.6	22.1
	12H	21.0	21.8	21.5	22.3	22.8	20.5	21.3	20.9	21.8	22.3
8H	4H	20.2	21.1	20.6	21.6	22.0	19.7	20.6	20.1	21.1	21.5
	6H	21.0	21.8	21.5	22.3	22.7	20.5	21.3	21.0	21.8	22.3
	8H	21.3	22.0	21.8	22.5	23.0	20.9	21.6	21.4	22.1	22.6
	12H	21.6	22.3	22.1	22.8	23.3	21.2	21.8	21.7	22.3	22.9
12H	4H	20.2	21.1	20.7	21.5	22.0	19.7	20.6	20.2	21.1	21.5
	6H	21.1	21.8	21.6	22.3	22.8	20.6	21.3	21.1	21.8	22.3
	8H	21.5	22.1	22.0	22.6	23.2	21.0	21.7	21.5	22.1	22.7













(END OF REPORT)