

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: P1527136

Luminaire Tested: 24CGTX-55HE-F125-L940

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527136
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-L940
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

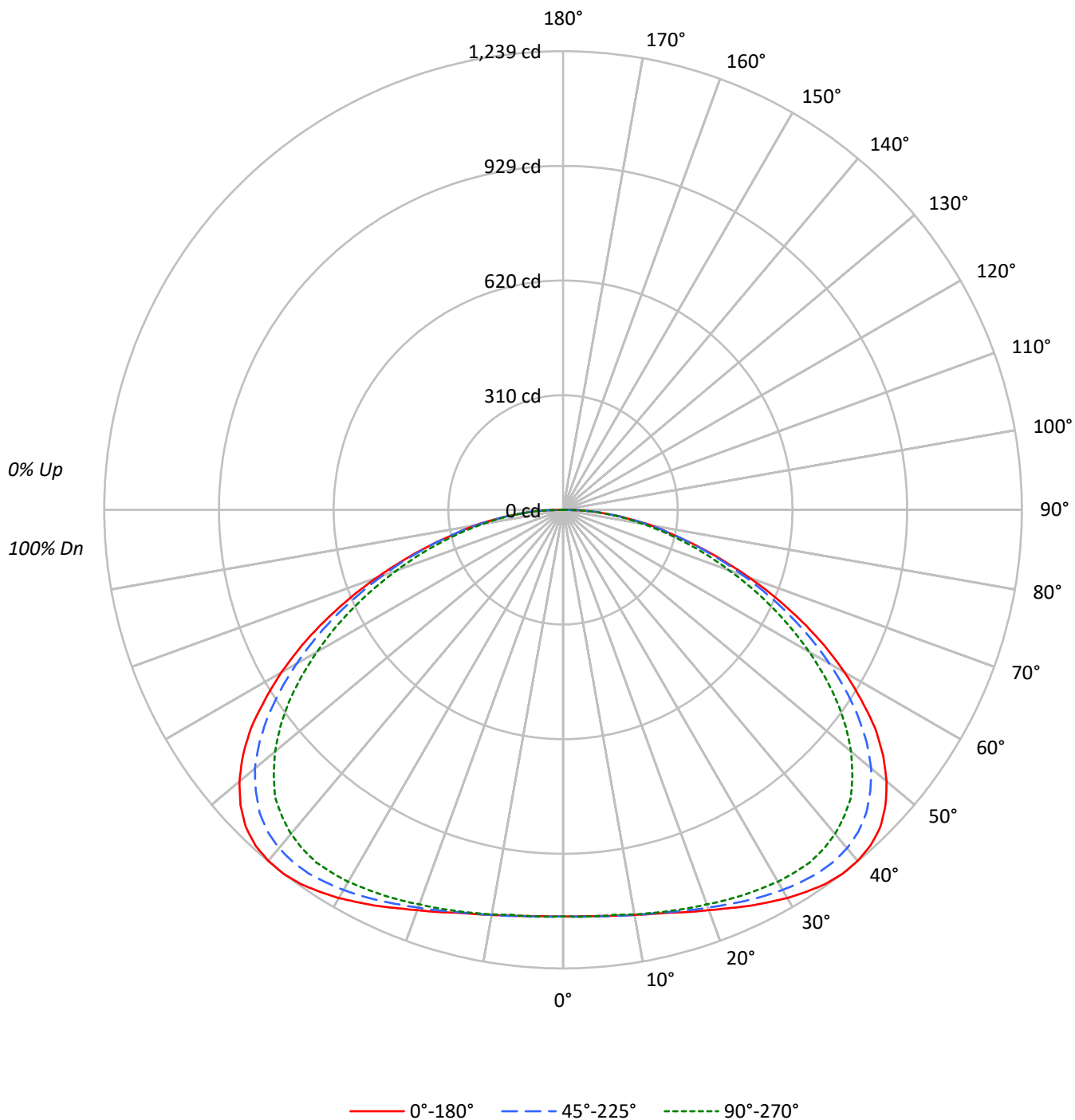
Lumens per Lamp: N/A
Luminaire Lumens: 4645.0 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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			
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°	1478	1478	1478
5°	1488	1489	1488
10°	1518	1518	1516
15°	1570	1566	1563
20°	1648	1638	1624
25°	1753	1731	1705
30°	1881	1842	1802
35°	2028	1969	1909
40°	2174	2096	2008
45°	2306	2204	2092
50°	2388	2274	2125
55°	2413	2282	2119
60°	2363	2236	2064
65°	2262	2153	1983
70°	2106	2036	1877
75°	1929	1916	1777
80°	1870	1832	1701
85°	1738	1814	1701

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 2413 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.5	2.3
10°-20°	319.5	6.9
20°-30°	539.7	11.6
30°-40°	750.8	16.2
40°-50°	888.7	19.1
50°-60°	862.2	18.6
60°-70°	664.3	14.3
70°-80°	387.6	8.3
80°-90°	126.7	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°	964.7	20.8
0°-40°	1715.5	36.9
0°-60°	3466.4	74.6
0°-90°	4645.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4645.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1098	1098	1098	1098	1098	
5°	1102	1102	1102	1102	1102	105
15°	1127	1127	1124	1122	1122	321
25°	1181	1176	1166	1154	1149	547
35°	1234	1224	1199	1174	1162	773
45°	1212	1196	1158	1119	1099	931
55°	1029	1011	973	928	903	913
65°	710	702	676	642	623	702
75°	371	380	369	352	342	397
85°	113	118	118	115	110	126
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1098.4	1098.4	1098.4	1098.4	1098.4
2.5°	1099.2	1100.1	1100.1	1100.1	1100.1
5°	1101.7	1102.5	1102.5	1102.5	1101.7
7.5°	1105.7	1105.7	1106.5	1105.7	1103.3
10°	1111.4	1111.4	1111.4	1110.6	1109.8
12.5°	1117.9	1118.7	1117.1	1116.3	1115.4
15°	1126.8	1126.8	1124.4	1121.9	1121.9
17.5°	1138.9	1137.3	1134.1	1130.0	1128.4
20°	1151.1	1149.5	1143.8	1137.3	1134.1
22.5°	1164.9	1161.6	1154.3	1145.4	1142.2
25°	1181.1	1176.2	1165.7	1153.5	1148.7
27.5°	1195.6	1189.2	1176.2	1162.4	1154.3
30°	1211.0	1202.9	1185.9	1168.1	1160.0
32.5°	1223.2	1215.1	1193.2	1173.0	1162.4
35°	1234.5	1224.0	1198.9	1173.8	1162.4
37.5°	1239.4	1228.0	1198.9	1169.7	1155.1
40°	1237.8	1225.6	1193.2	1160.0	1143.0
42.5°	1229.7	1215.1	1180.2	1143.0	1123.5
45°	1211.8	1195.6	1158.4	1118.7	1099.2
47.5°	1181.1	1164.9	1125.2	1083.0	1059.6
50°	1140.6	1123.5	1086.3	1039.3	1015.0
52.5°	1089.5	1072.5	1033.6	985.8	962.3
55°	1028.8	1010.9	972.9	927.5	903.2
57.5°	954.2	941.3	904.0	861.1	837.6
60°	878.1	865.1	831.1	790.6	767.1
62.5°	796.3	785.8	755.0	716.9	696.6
65°	710.4	702.3	676.4	641.6	622.9
67.5°	622.9	619.7	596.2	566.2	550.0
70°	535.4	537.1	517.6	490.9	477.1
72.5°	450.4	456.1	440.7	418.8	409.1
75°	371.0	379.9	368.6	351.6	341.8
77.5°	297.3	309.4	299.7	286.8	278.7
80°	241.4	240.6	236.5	226.8	219.5
82.5°	173.4	176.6	174.2	168.5	164.4
85°	112.6	118.3	117.5	115.0	110.2
87.5°	55.9	62.4	63.2	61.6	59.1
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	15.7	17.5	16.1	17.8	18.1	15.1	16.8	15.4	17.1	17.4
	3H	17.6	19.1	17.9	19.5	19.8	16.9	18.4	17.2	18.8	19.1
	4H	18.2	19.7	18.6	20.1	20.4	17.6	19.1	18.0	19.4	19.8
	6H	18.8	20.1	19.2	20.5	20.9	18.1	19.5	18.5	19.9	20.2
	8H	19.0	20.3	19.4	20.7	21.1	18.3	19.6	18.7	20.0	20.4
	12H	19.1	20.4	19.5	20.8	21.2	18.5	19.8	18.9	20.1	20.6
4H	2H	16.3	17.8	16.7	18.2	18.6	15.8	17.3	16.2	17.7	18.0
	3H	18.4	19.7	18.8	20.0	20.4	17.8	19.1	18.2	19.5	19.9
	4H	19.2	20.4	19.6	20.8	21.2	18.6	19.8	19.1	20.2	20.6
	6H	19.9	20.9	20.3	21.3	21.8	19.3	20.3	19.8	20.8	21.2
	8H	20.1	21.1	20.6	21.5	22.0	19.6	20.5	20.1	21.0	21.4
	12H	20.3	21.2	20.8	21.7	22.1	19.8	20.7	20.3	21.1	21.6
8H	4H	19.5	20.5	20.0	20.9	21.4	19.0	20.0	19.5	20.4	20.9
	6H	20.3	21.1	20.8	21.6	22.1	19.9	20.7	20.4	21.1	21.6
	8H	20.7	21.4	21.2	21.9	22.4	20.2	20.9	20.7	21.4	21.9
	12H	21.0	21.6	21.5	22.1	22.7	20.5	21.2	21.0	21.7	22.2
12H	4H	19.6	20.4	20.0	20.9	21.4	19.1	19.9	19.6	20.4	20.9
	6H	20.4	21.1	20.9	21.6	22.1	20.0	20.7	20.5	21.1	21.7
	8H	20.8	21.5	21.3	21.9	22.5	20.4	21.0	20.9	21.5	22.1











(END OF REPORT)