

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: P1527121

Luminaire Tested: 24CGTX-45HE-F125-L840

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527121
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-45HE-F125-L840
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

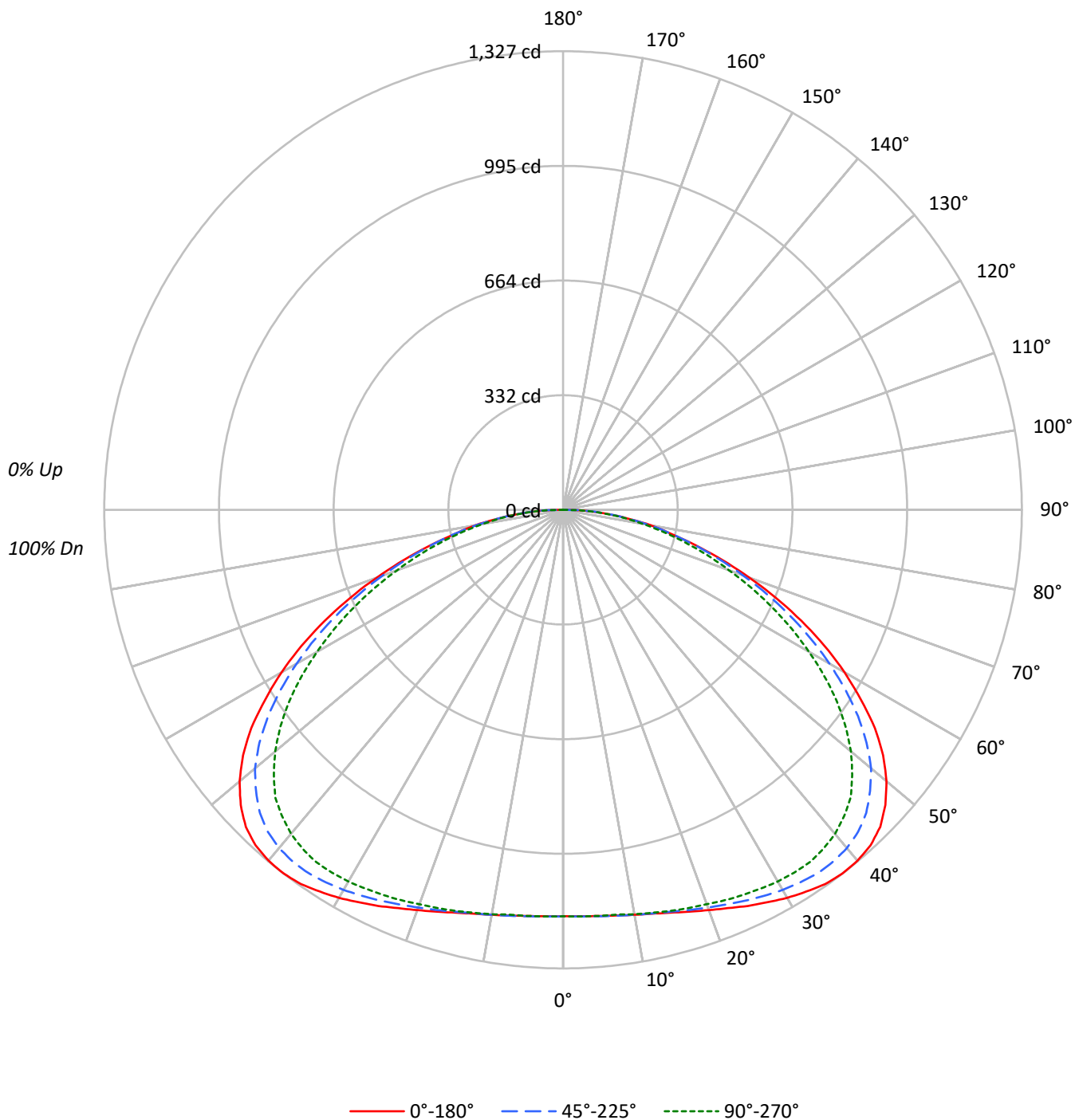
Lumens per Lamp: N/A
Luminaire Lumens: 4973.0 lumens
Efficiency: N/A
Efficacy: 143.3 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.7
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°	1582	1582	1582
5°	1593	1594	1593
10°	1626	1626	1623
15°	1680	1677	1673
20°	1765	1753	1739
25°	1877	1853	1826
30°	2014	1973	1929
35°	2171	2108	2044
40°	2328	2244	2149
45°	2469	2360	2239
50°	2556	2434	2275
55°	2584	2443	2268
60°	2530	2394	2210
65°	2422	2306	2123
70°	2255	2180	2009
75°	2065	2051	1903
80°	2002	1962	1821
85°	1860	1942	1820

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 55°
Luminance: 2584 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.9	2.3
10°-20°	342.1	6.9
20°-30°	577.8	11.6
30°-40°	803.8	16.2
40°-50°	951.5	19.1
50°-60°	923.1	18.6
60°-70°	711.2	14.3
70°-80°	415.0	8.3
80°-90°	135.6	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°	1032.8	20.8
0°-40°	1836.6	36.9
0°-60°	3711.2	74.6
0°-90°	4973.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4973.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1176	1176	1176	1176	1176	
5°	1180	1180	1180	1180	1180	113
15°	1206	1206	1204	1201	1201	343
25°	1264	1259	1248	1235	1230	586
35°	1322	1310	1284	1257	1244	828
45°	1297	1280	1240	1198	1177	996
55°	1101	1082	1042	993	967	978
65°	761	752	724	687	667	751
75°	397	407	395	376	366	426
85°	120	127	126	123	118	135
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1176.0	1176.0	1176.0	1176.0	1176.0
2.5°	1176.9	1177.7	1177.7	1177.7	1177.7
5°	1179.5	1180.3	1180.3	1180.3	1179.5
7.5°	1183.8	1183.8	1184.7	1183.8	1181.2
10°	1189.9	1189.9	1189.9	1189.0	1188.1
12.5°	1196.8	1197.7	1195.9	1195.1	1194.2
15°	1206.4	1206.4	1203.7	1201.1	1201.1
17.5°	1219.4	1217.6	1214.2	1209.8	1208.1
20°	1232.4	1230.6	1224.6	1217.6	1214.2
22.5°	1247.1	1243.6	1235.8	1226.3	1222.8
25°	1264.5	1259.3	1248.0	1235.0	1229.8
27.5°	1280.1	1273.1	1259.3	1244.5	1235.8
30°	1296.5	1287.9	1269.7	1250.6	1241.9
32.5°	1309.6	1300.9	1277.5	1255.8	1244.5
35°	1321.7	1310.4	1283.5	1256.7	1244.5
37.5°	1326.9	1314.8	1283.5	1252.3	1236.7
40°	1325.2	1312.2	1277.5	1241.9	1223.7
42.5°	1316.5	1300.9	1263.6	1223.7	1202.9
45°	1297.4	1280.1	1240.2	1197.7	1176.9
47.5°	1264.5	1247.1	1204.6	1159.5	1134.4
50°	1221.1	1202.9	1163.0	1112.7	1086.7
52.5°	1166.5	1148.2	1106.6	1055.4	1030.3
55°	1101.4	1082.3	1041.6	993.0	967.0
57.5°	1021.6	1007.7	967.9	921.9	896.7
60°	940.1	926.2	889.8	846.4	821.3
62.5°	852.5	841.2	808.3	767.5	745.8
65°	760.6	751.9	724.2	686.9	666.9
67.5°	666.9	663.4	638.3	606.2	588.9
70°	573.3	575.0	554.2	525.6	510.8
72.5°	482.2	488.3	471.8	448.4	438.0
75°	397.2	406.7	394.6	376.4	366.0
77.5°	318.3	331.3	320.9	307.0	298.3
80°	258.4	257.6	253.2	242.8	235.0
82.5°	185.6	189.1	186.5	180.4	176.1
85°	120.5	126.6	125.8	123.2	117.9
87.5°	59.8	66.8	67.6	65.9	63.3
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	16.0	17.7	16.3	18.0	18.4	15.3	17.1	15.7	17.4	17.7
	3H	17.8	19.4	18.2	19.7	20.1	17.1	18.7	17.5	19.0	19.4
	4H	18.5	20.0	18.9	20.3	20.7	17.8	19.3	18.2	19.6	20.0
	6H	19.0	20.4	19.4	20.7	21.1	18.3	19.7	18.8	20.1	20.5
	8H	19.2	20.5	19.6	20.9	21.3	18.6	19.9	19.0	20.3	20.7
	12H	19.3	20.6	19.8	21.0	21.4	18.7	20.0	19.1	20.4	20.8
4H	2H	16.6	18.1	17.0	18.4	18.8	16.1	17.5	16.5	17.9	18.3
	3H	18.6	19.9	19.0	20.3	20.7	18.1	19.3	18.5	19.7	20.1
	4H	19.4	20.6	19.9	21.0	21.4	18.9	20.0	19.3	20.4	20.9
	6H	20.1	21.1	20.6	21.6	22.0	19.6	20.6	20.0	21.0	21.5
	8H	20.4	21.3	20.8	21.8	22.2	19.8	20.8	20.3	21.2	21.7
	12H	20.6	21.4	21.1	21.9	22.4	20.1	20.9	20.5	21.4	21.8
8H	4H	19.8	20.7	20.2	21.1	21.6	19.3	20.2	19.7	20.6	21.1
	6H	20.6	21.4	21.1	21.9	22.3	20.1	20.9	20.6	21.4	21.8
	8H	20.9	21.6	21.4	22.1	22.6	20.5	21.2	21.0	21.7	22.1
	12H	21.2	21.9	21.7	22.3	22.9	20.8	21.4	21.3	21.9	22.4
12H	4H	19.8	20.7	20.3	21.1	21.6	19.3	20.2	19.8	20.6	21.1
	6H	20.7	21.4	21.2	21.8	22.4	20.2	20.9	20.7	21.4	21.9
	8H	21.1	21.7	21.6	22.2	22.7	20.6	21.2	21.1	21.7	22.3













(END OF REPORT)