

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: P1527120

Luminaire Tested: 24CGTX-45HE-F125-L835

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527120
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-L835
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

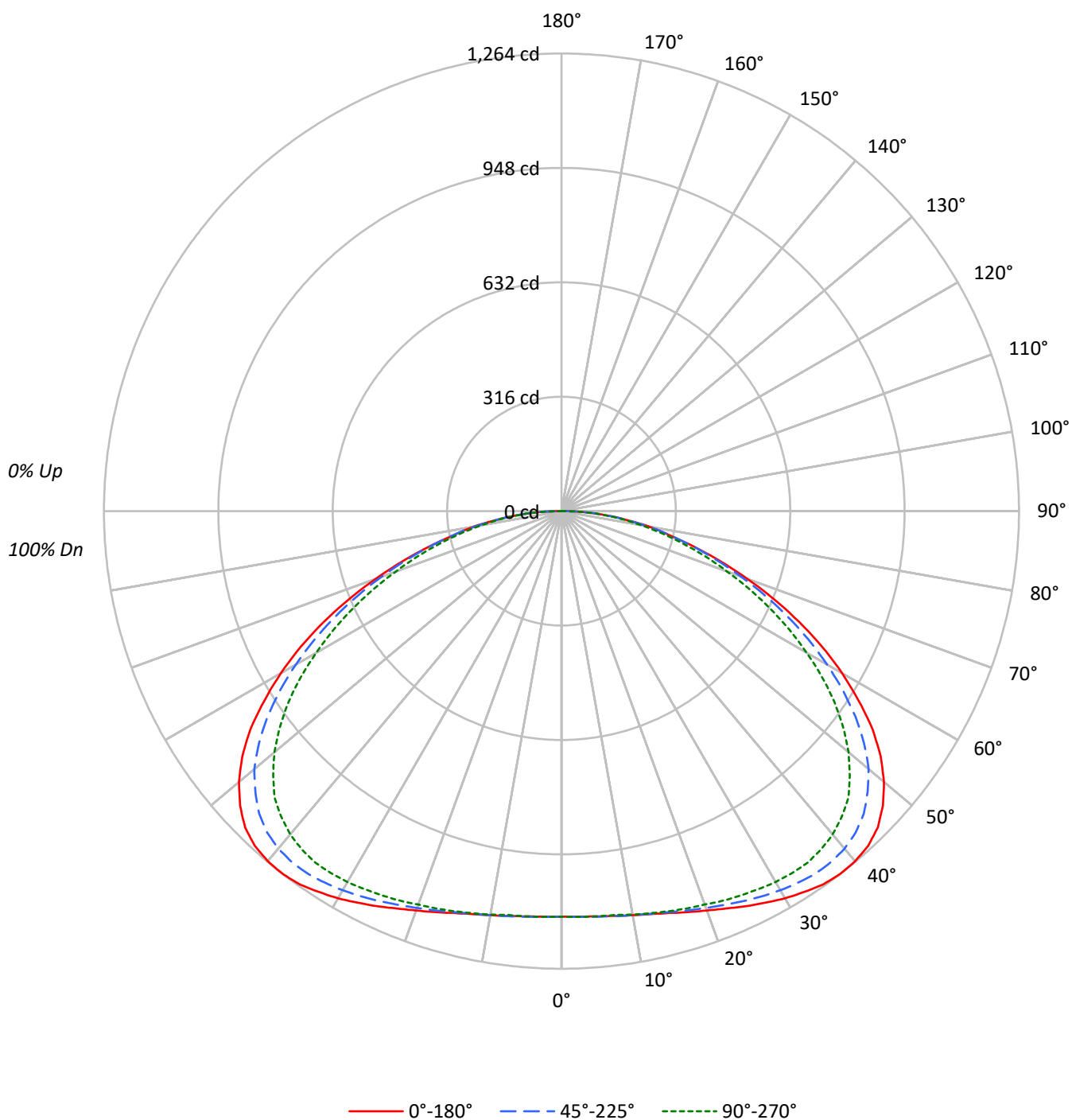
Lumens per Lamp: N/A
Luminaire Lumens: 4736.5 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	102	98	94	105	100	96	92	96	92	89		92	89	86		88
2	97	88	81	74	94	86	79	74	83	77	72		79	74	70		76
3	88	76	68	61	85	75	67	60	72	65	59		69	63	58		66
4	80	67	57	50	77	66	57	50	63	55	49		61	54	48		58
5	73	59	50	43	71	58	49	42	56	48	42		54	47	41		52
6	67	53	43	36	65	52	43	36	50	42	36		48	41	36		47
7	62	47	38	32	60	47	38	32	45	37	31		44	36	31		42
8	57	43	34	28	56	42	34	28	41	33	28		40	33	27		38
9	53	39	31	25	52	39	30	25	37	30	25		36	29	24		35
10	50	36	28	22	48	35	27	22	34	27	22		33	27	22		33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1507	1507	1507
5°	1517	1518	1517
10°	1548	1548	1546
15°	1601	1597	1594
20°	1681	1670	1656
25°	1788	1765	1739
30°	1919	1879	1838
35°	2068	2008	1947
40°	2217	2137	2047
45°	2351	2248	2133
50°	2434	2319	2166
55°	2461	2327	2160
60°	2410	2281	2105
65°	2306	2196	2022
70°	2148	2076	1914
75°	1967	1954	1812
80°	1908	1869	1735
85°	1772	1849	1734

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 55°
Luminance: 2461 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	2.3
10°-20°	325.8	6.9
20°-30°	550.3	11.6
30°-40°	765.5	16.2
40°-50°	906.2	19.1
50°-60°	879.2	18.6
60°-70°	677.4	14.3
70°-80°	395.3	8.3
80°-90°	129.2	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°	983.7	20.8
0°-40°	1749.3	36.9
0°-60°	3534.7	74.6
0°-90°	4736.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4736.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1120	1120	1120	1120	1120	
5°	1123	1124	1124	1124	1123	108
15°	1149	1149	1146	1144	1144	327
25°	1204	1199	1189	1176	1171	558
35°	1259	1248	1222	1197	1185	789
45°	1236	1219	1181	1141	1121	949
55°	1049	1031	992	946	921	931
65°	724	716	690	654	635	716
75°	378	387	376	358	349	405
85°	115	121	120	117	112	128
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1120.1	1120.1	1120.1	1120.1	1120.1
2.5°	1120.9	1121.7	1121.7	1121.7	1121.7
5°	1123.4	1124.2	1124.2	1124.2	1123.4
7.5°	1127.5	1127.5	1128.3	1127.5	1125.0
10°	1133.3	1133.3	1133.3	1132.5	1131.6
12.5°	1139.9	1140.7	1139.1	1138.3	1137.4
15°	1149.0	1149.0	1146.5	1144.0	1144.0
17.5°	1161.4	1159.7	1156.4	1152.3	1150.6
20°	1173.8	1172.1	1166.3	1159.7	1156.4
22.5°	1187.8	1184.5	1177.1	1168.0	1164.7
25°	1204.3	1199.4	1188.6	1176.3	1171.3
27.5°	1219.2	1212.6	1199.4	1185.3	1177.1
30°	1234.9	1226.6	1209.3	1191.1	1182.9
32.5°	1247.3	1239.0	1216.7	1196.1	1185.3
35°	1258.9	1248.1	1222.5	1196.9	1185.3
37.5°	1263.8	1252.2	1222.5	1192.8	1177.9
40°	1262.2	1249.8	1216.7	1182.9	1165.5
42.5°	1253.9	1239.0	1203.5	1165.5	1145.7
45°	1235.7	1219.2	1181.2	1140.7	1120.9
47.5°	1204.3	1187.8	1147.3	1104.4	1080.4
50°	1163.0	1145.7	1107.7	1059.8	1035.0
52.5°	1111.0	1093.6	1054.0	1005.3	981.3
55°	1049.0	1030.9	992.0	945.8	921.0
57.5°	973.1	959.8	921.8	878.1	854.1
60°	895.4	882.2	847.5	806.2	782.2
62.5°	812.0	801.2	769.8	731.0	710.4
65°	724.4	716.2	689.7	654.2	635.2
67.5°	635.2	631.9	608.0	577.4	560.9
70°	546.0	547.7	527.8	500.6	486.5
72.5°	459.3	465.0	449.4	427.1	417.1
75°	378.3	387.4	375.8	358.5	348.6
77.5°	303.1	315.5	305.6	292.4	284.2
80°	246.2	245.3	241.2	231.3	223.9
82.5°	176.8	180.1	177.6	171.8	167.7
85°	114.8	120.6	119.8	117.3	112.3
87.5°	57.0	63.6	64.4	62.8	60.3
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	15.8	17.6	16.2	17.9	18.2	15.1	16.9	15.5	17.2	17.5
	3H	17.6	19.2	18.0	19.5	19.9	16.9	18.5	17.3	18.8	19.2
	4H	18.3	19.8	18.7	20.1	20.5	17.6	19.1	18.0	19.5	19.8
	6H	18.8	20.2	19.2	20.6	21.0	18.2	19.6	18.6	19.9	20.3
	8H	19.0	20.4	19.4	20.7	21.1	18.4	19.7	18.8	20.1	20.5
	12H	19.2	20.4	19.6	20.8	21.3	18.6	19.8	19.0	20.2	20.6
4H	2H	16.4	17.9	16.8	18.3	18.6	15.9	17.4	16.3	17.7	18.1
	3H	18.5	19.7	18.9	20.1	20.5	17.9	19.2	18.3	19.5	19.9
	4H	19.3	20.4	19.7	20.8	21.3	18.7	19.9	19.1	20.3	20.7
	6H	20.0	21.0	20.4	21.4	21.8	19.4	20.4	19.9	20.8	21.3
	8H	20.2	21.2	20.7	21.6	22.1	19.7	20.6	20.1	21.0	21.5
	12H	20.4	21.3	20.9	21.7	22.2	19.9	20.7	20.4	21.2	21.7
8H	4H	19.6	20.5	20.1	21.0	21.4	19.1	20.0	19.6	20.5	20.9
	6H	20.4	21.2	20.9	21.7	22.2	19.9	20.7	20.4	21.2	21.7
	8H	20.8	21.5	21.3	22.0	22.5	20.3	21.0	20.8	21.5	22.0
	12H	21.1	21.7	21.6	22.2	22.7	20.6	21.2	21.1	21.7	22.3
12H	4H	19.6	20.5	20.1	21.0	21.4	19.2	20.0	19.6	20.5	20.9
	6H	20.5	21.2	21.0	21.7	22.2	20.0	20.8	20.6	21.2	21.7
	8H	20.9	21.5	21.4	22.0	22.6	20.4	21.1	21.0	21.6	22.1













(END OF REPORT)