

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: P1527119

Luminaire Tested: 24CGTX-45HE-F125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527119
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-L830
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

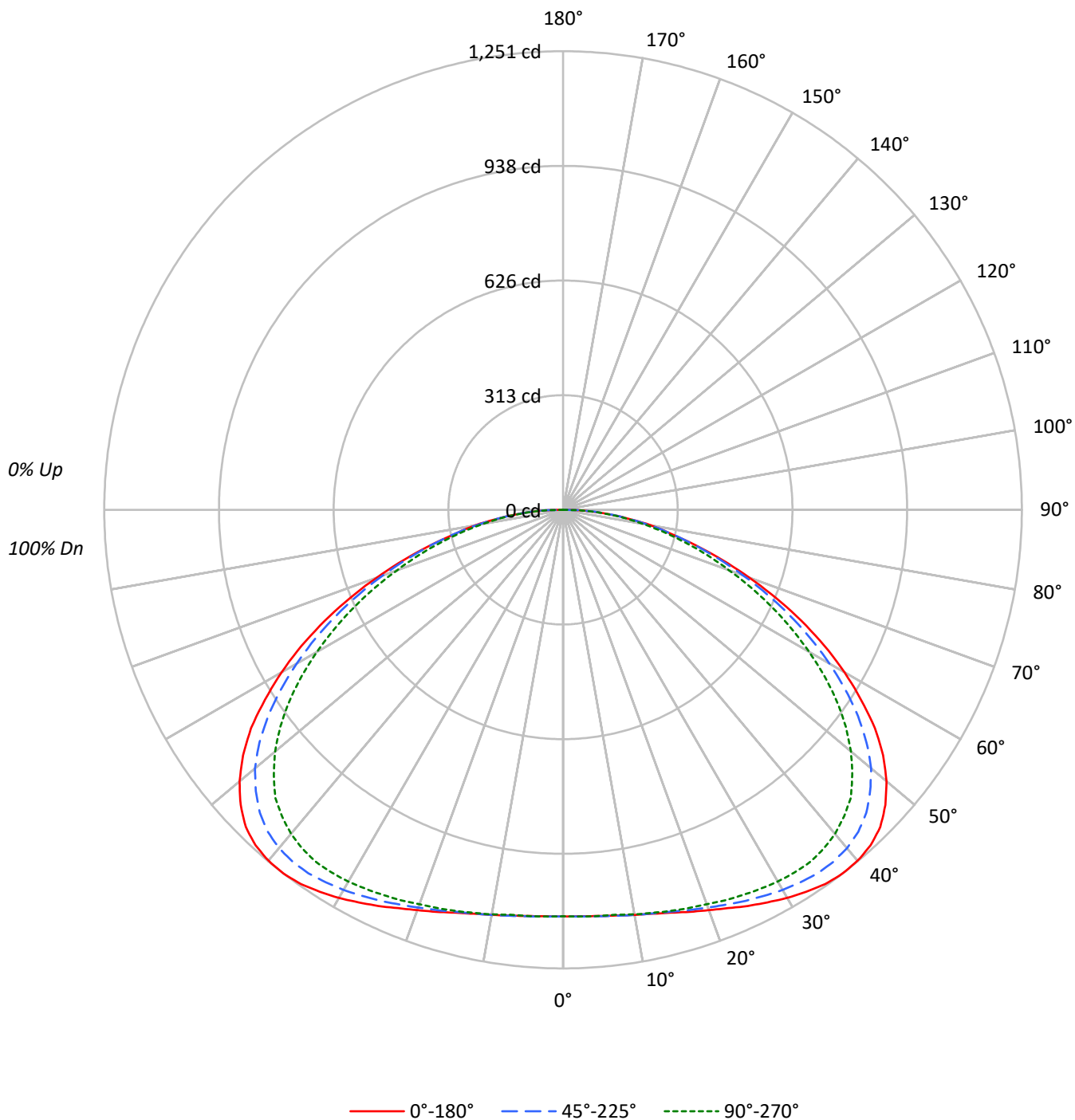
Lumens per Lamp: N/A
Luminaire Lumens: 4689.0 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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			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°	1492	1492	1492
5°	1502	1503	1502
10°	1533	1533	1531
15°	1584	1581	1578
20°	1664	1653	1639
25°	1770	1747	1721
30°	1899	1860	1819
35°	2047	1988	1927
40°	2195	2116	2027
45°	2328	2225	2112
50°	2410	2295	2145
55°	2436	2304	2139
60°	2385	2258	2084
65°	2283	2174	2002
70°	2126	2055	1895
75°	1947	1934	1794
80°	1888	1850	1717
85°	1755	1831	1717

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 2436 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.5	2.3
10°-20°	322.6	6.9
20°-30°	544.8	11.6
30°-40°	757.9	16.2
40°-50°	897.1	19.1
50°-60°	870.4	18.6
60°-70°	670.6	14.3
70°-80°	391.3	8.3
80°-90°	127.9	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°	973.9	20.8
0°-40°	1731.7	36.9
0°-60°	3499.2	74.6
0°-90°	4689.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4689.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1109	1109	1109	1109	1109	
5°	1112	1113	1113	1113	1112	106
15°	1138	1138	1135	1133	1133	324
25°	1192	1187	1177	1164	1160	552
35°	1246	1236	1210	1185	1173	781
45°	1223	1207	1169	1129	1110	939
55°	1038	1020	982	936	912	922
65°	717	709	683	648	629	708
75°	374	384	372	355	345	401
85°	114	119	119	116	111	127
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1108.8	1108.8	1108.8	1108.8	1108.8
2.5°	1109.7	1110.5	1110.5	1110.5	1110.5
5°	1112.1	1112.9	1112.9	1112.9	1112.1
7.5°	1116.2	1116.2	1117.0	1116.2	1113.7
10°	1121.9	1121.9	1121.9	1121.1	1120.3
12.5°	1128.5	1129.3	1127.6	1126.8	1126.0
15°	1137.5	1137.5	1135.0	1132.6	1132.6
17.5°	1149.7	1148.1	1144.8	1140.7	1139.1
20°	1162.0	1160.4	1154.6	1148.1	1144.8
22.5°	1175.9	1172.6	1165.3	1156.3	1153.0
25°	1192.2	1187.3	1176.7	1164.4	1159.5
27.5°	1207.0	1200.4	1187.3	1173.4	1165.3
30°	1222.5	1214.3	1197.2	1179.2	1171.0
32.5°	1234.8	1226.6	1204.5	1184.1	1173.4
35°	1246.2	1235.6	1210.2	1184.9	1173.4
37.5°	1251.1	1239.7	1210.2	1180.8	1166.1
40°	1249.5	1237.2	1204.5	1171.0	1153.8
42.5°	1241.3	1226.6	1191.4	1153.8	1134.2
45°	1223.3	1207.0	1169.3	1129.3	1109.7
47.5°	1192.2	1175.9	1135.8	1093.3	1069.6
50°	1151.4	1134.2	1096.6	1049.1	1024.6
52.5°	1099.8	1082.7	1043.4	995.2	971.5
55°	1038.5	1020.5	982.1	936.3	911.8
57.5°	963.3	950.2	912.6	869.2	845.5
60°	886.4	873.3	839.0	798.1	774.4
62.5°	803.8	793.2	762.1	723.7	703.2
65°	717.1	709.0	682.8	647.6	628.8
67.5°	628.8	625.6	601.8	571.6	555.2
70°	540.5	542.2	522.5	495.5	481.6
72.5°	454.7	460.4	444.8	422.8	413.0
75°	374.5	383.5	372.1	354.9	345.1
77.5°	300.1	312.4	302.6	289.5	281.3
80°	243.7	242.9	238.8	229.0	221.6
82.5°	175.0	178.3	175.8	170.1	166.0
85°	113.7	119.4	118.6	116.1	111.2
87.5°	56.4	63.0	63.8	62.1	59.7
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	17.5	16.1	17.8	18.1	15.1	16.8	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	19.4	19.8
	6H	18.8	20.2	19.2	20.5	20.9	18.1	19.5	18.6	19.9	20.3
	8H	19.0	20.3	19.4	20.7	21.1	18.4	19.7	18.8	20.1	20.5
	12H	19.1	20.4	19.6	20.8	21.2	18.5	19.8	18.9	20.2	20.6
4H	2H	16.4	17.9	16.8	18.2	18.6	15.9	17.3	16.2	17.7	18.1
	3H	18.4	19.7	18.8	20.1	20.5	17.9	19.1	18.3	19.5	19.9
	4H	19.2	20.4	19.7	20.8	21.2	18.7	19.8	19.1	20.2	20.7
	6H	19.9	20.9	20.4	21.4	21.8	19.4	20.4	19.8	20.8	21.3
	8H	20.2	21.1	20.6	21.6	22.0	19.6	20.6	20.1	21.0	21.5
	12H	20.4	21.2	20.9	21.7	22.2	19.9	20.7	20.3	21.2	21.6
8H	4H	19.6	20.5	20.0	20.9	21.4	19.1	20.0	19.5	20.4	20.9
	6H	20.4	21.2	20.9	21.7	22.1	19.9	20.7	20.4	21.2	21.6
	8H	20.7	21.4	21.2	21.9	22.4	20.3	21.0	20.8	21.5	21.9
	12H	21.0	21.7	21.5	22.1	22.7	20.6	21.2	21.1	21.7	22.2
12H	4H	19.6	20.5	20.1	20.9	21.4	19.1	20.0	19.6	20.4	20.9
	6H	20.5	21.2	21.0	21.6	22.2	20.0	20.7	20.5	21.2	21.7
	8H	20.9	21.5	21.4	22.0	22.5	20.4	21.0	20.9	21.5	22.1













(END OF REPORT)