

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: P1527125

Luminaire Tested: 24CGTX-45HE-F125-L940

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527125
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-L940
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

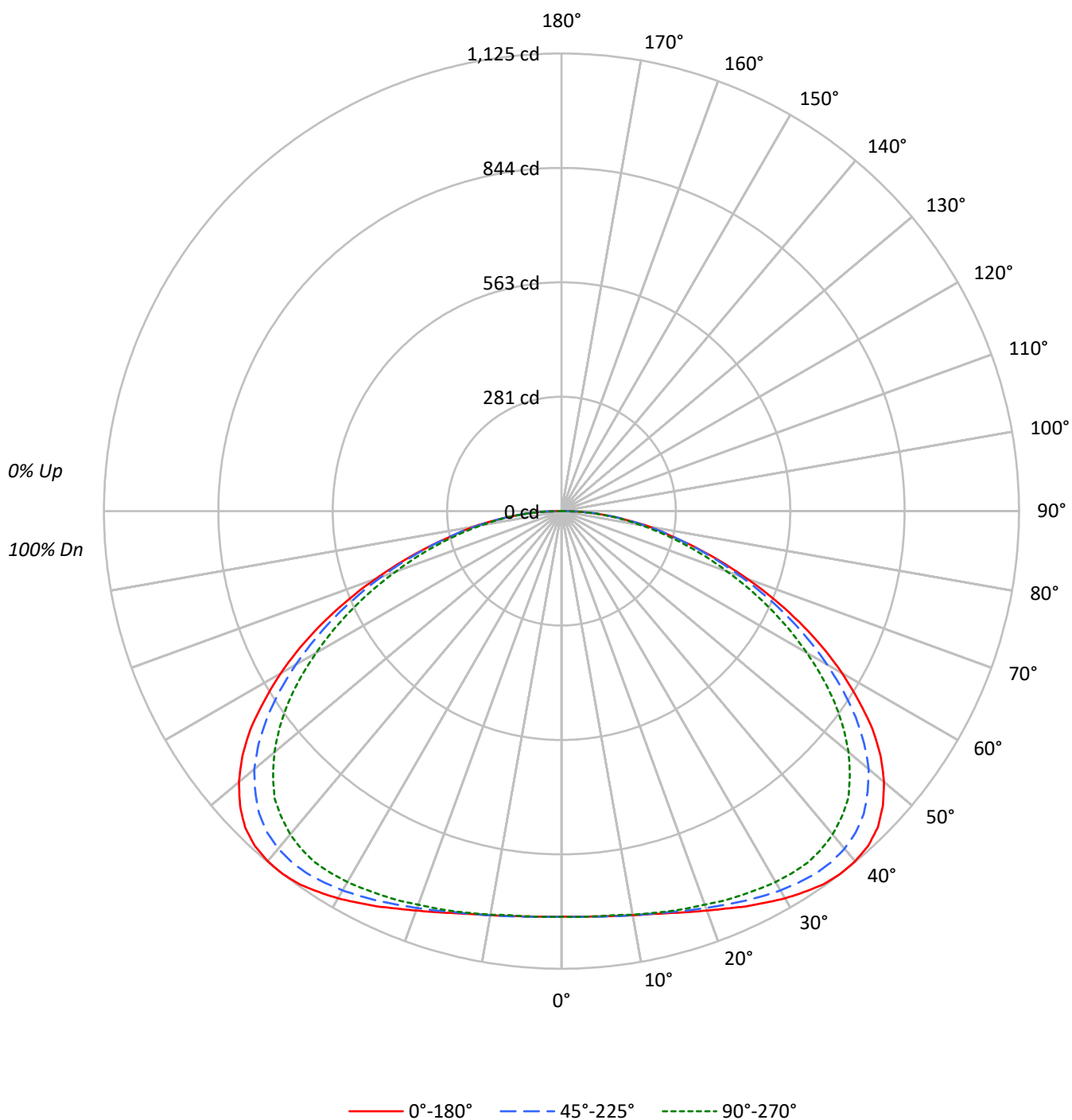
Lumens per Lamp: N/A
Luminaire Lumens: 4216.0 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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				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°	1341	1341	1341
5°	1350	1352	1350
10°	1378	1378	1376
15°	1425	1422	1418
20°	1496	1487	1474
25°	1591	1571	1548
30°	1708	1672	1636
35°	1840	1787	1733
40°	1973	1902	1822
45°	2093	2001	1898
50°	2167	2064	1928
55°	2190	2071	1923
60°	2145	2030	1874
65°	2053	1954	1800
70°	1912	1848	1704
75°	1750	1739	1613
80°	1698	1664	1543
85°	1578	1646	1544

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 2190 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.7	2.3
10°-20°	290.0	6.9
20°-30°	489.9	11.6
30°-40°	681.4	16.2
40°-50°	806.6	19.1
50°-60°	782.6	18.6
60°-70°	603.0	14.3
70°-80°	351.8	8.3
80°-90°	115.0	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°	875.6	20.8
0°-40°	1557.0	36.9
0°-60°	3146.2	74.6
0°-90°	4216.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4216.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	997	997	997	997	997	
5°	1000	1001	1001	1001	1000	96
15°	1023	1023	1020	1018	1018	291
25°	1072	1068	1058	1047	1043	497
35°	1120	1111	1088	1065	1055	702
45°	1100	1085	1051	1015	998	845
55°	934	918	883	842	820	829
65°	645	638	614	582	565	637
75°	337	345	334	319	310	361
85°	102	107	107	104	100	114
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	997.0	997.0	997.0	997.0	997.0
2.5°	997.7	998.5	998.5	998.5	998.5
5°	999.9	1000.7	1000.7	1000.7	999.9
7.5°	1003.6	1003.6	1004.3	1003.6	1001.4
10°	1008.7	1008.7	1008.7	1008.0	1007.3
12.5°	1014.6	1015.4	1013.9	1013.2	1012.4
15°	1022.7	1022.7	1020.5	1018.3	1018.3
17.5°	1033.7	1032.3	1029.3	1025.7	1024.2
20°	1044.8	1043.3	1038.2	1032.3	1029.3
22.5°	1057.3	1054.3	1047.7	1039.6	1036.7
25°	1072.0	1067.6	1058.0	1047.0	1042.6
27.5°	1085.2	1079.3	1067.6	1055.1	1047.7
30°	1099.2	1091.8	1076.4	1060.2	1052.9
32.5°	1110.2	1102.9	1083.0	1064.6	1055.1
35°	1120.5	1110.9	1088.2	1065.4	1055.1
37.5°	1124.9	1114.6	1088.2	1061.7	1048.5
40°	1123.4	1112.4	1083.0	1052.9	1037.4
42.5°	1116.1	1102.9	1071.2	1037.4	1019.8
45°	1099.9	1085.2	1051.4	1015.4	997.7
47.5°	1072.0	1057.3	1021.2	983.0	961.7
50°	1035.2	1019.8	986.0	943.3	921.3
52.5°	988.9	973.5	938.2	894.8	873.5
55°	933.8	917.6	883.0	841.8	819.8
57.5°	866.1	854.3	820.5	781.6	760.2
60°	797.0	785.2	754.4	717.6	696.3
62.5°	722.7	713.2	685.2	650.7	632.3
65°	644.8	637.5	613.9	582.3	565.4
67.5°	565.4	562.5	541.1	513.9	499.2
70°	486.0	487.5	469.8	445.6	433.1
72.5°	408.8	413.9	400.0	380.1	371.3
75°	336.7	344.8	334.5	319.1	310.3
77.5°	269.8	280.9	272.0	260.3	252.9
80°	219.1	218.4	214.7	205.9	199.2
82.5°	157.3	160.3	158.1	152.9	149.3
85°	102.2	107.3	106.6	104.4	100.0
87.5°	50.7	56.6	57.3	55.9	53.7
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	15.4	17.1	15.8	17.5	17.8	14.7	16.5	15.1	16.8	17.1
	3H	17.2	18.8	17.6	19.1	19.5	16.5	18.1	16.9	18.4	18.8
	4H	17.9	19.4	18.3	19.7	20.1	17.2	18.7	17.6	19.1	19.4
	6H	18.4	19.8	18.8	20.2	20.6	17.8	19.2	18.2	19.5	19.9
	8H	18.6	19.9	19.0	20.3	20.7	18.0	19.3	18.4	19.7	20.1
	12H	18.8	20.0	19.2	20.4	20.8	18.1	19.4	18.6	19.8	20.2
4H	2H	16.0	17.5	16.4	17.8	18.2	15.5	17.0	15.9	17.3	17.7
	3H	18.1	19.3	18.5	19.7	20.1	17.5	18.7	17.9	19.1	19.5
	4H	18.9	20.0	19.3	20.4	20.9	18.3	19.5	18.7	19.9	20.3
	6H	19.6	20.6	20.0	21.0	21.4	19.0	20.0	19.4	20.4	20.9
	8H	19.8	20.7	20.3	21.2	21.7	19.3	20.2	19.7	20.6	21.1
	12H	20.0	20.9	20.5	21.3	21.8	19.5	20.3	20.0	20.8	21.3
8H	4H	19.2	20.1	19.6	20.6	21.0	18.7	19.6	19.2	20.1	20.5
	6H	20.0	20.8	20.5	21.3	21.8	19.5	20.3	20.0	20.8	21.3
	8H	20.4	21.1	20.9	21.6	22.0	19.9	20.6	20.4	21.1	21.6
	12H	20.7	21.3	21.2	21.8	22.3	20.2	20.8	20.7	21.3	21.9
12H	4H	19.2	20.1	19.7	20.6	21.0	18.8	19.6	19.2	20.1	20.5
	6H	20.1	20.8	20.6	21.3	21.8	19.6	20.3	20.1	20.8	21.3
	8H	20.5	21.1	21.0	21.6	22.2	20.0	20.7	20.5	21.2	21.7















(END OF REPORT)