

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: P1527123

Luminaire Tested: 24CGTX-45HE-F125-L930

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527123
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-L930
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

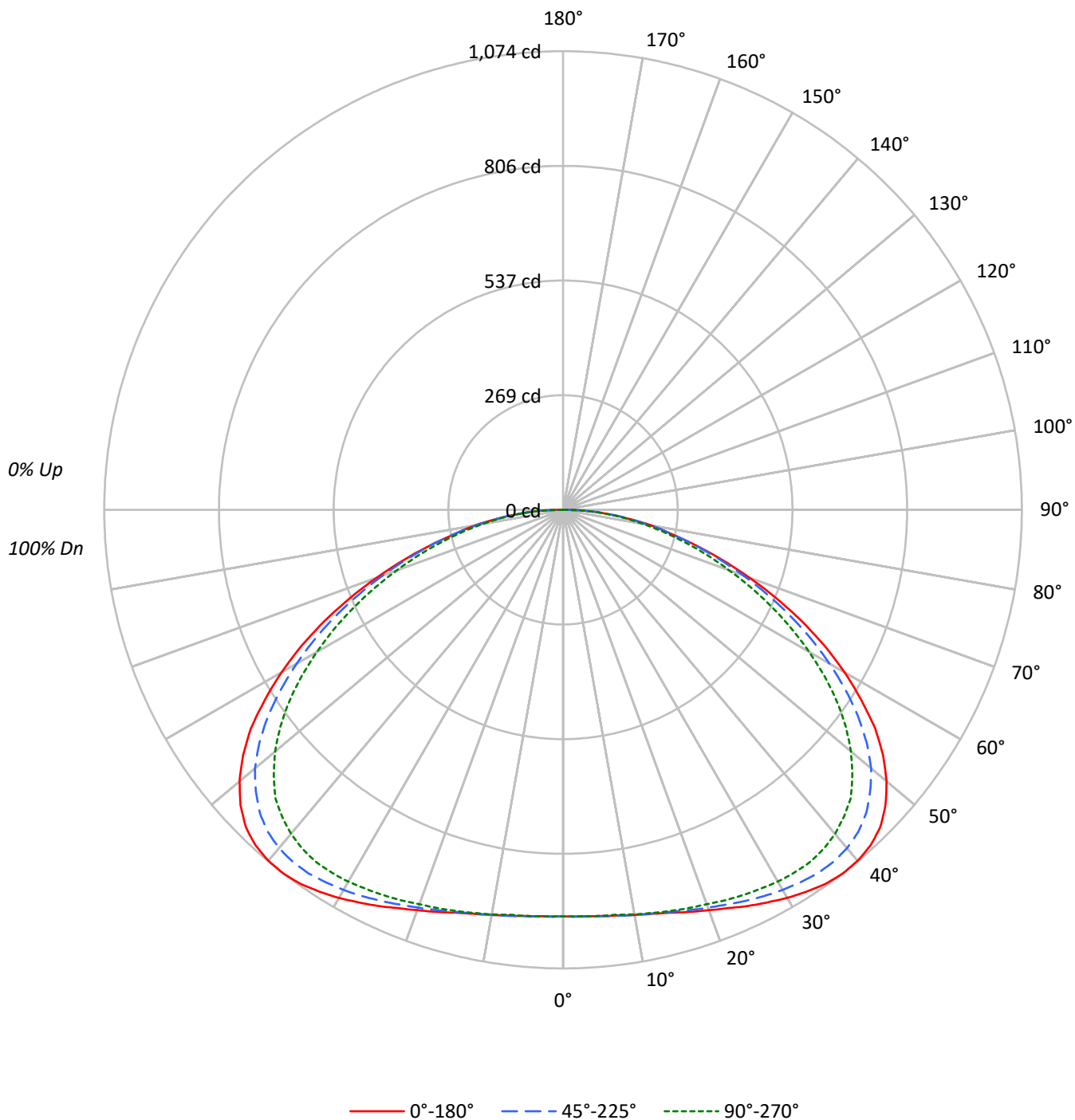
Lumens per Lamp: N/A
Luminaire Lumens: 4026.0 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1281	1281	1281
5°	1290	1291	1290
10°	1316	1316	1314
15°	1360	1357	1355
20°	1429	1420	1407
25°	1520	1500	1478
30°	1631	1597	1562
35°	1758	1707	1655
40°	1884	1816	1740
45°	1999	1910	1813
50°	2069	1971	1841
55°	2092	1978	1836
60°	2048	1939	1789
65°	1960	1867	1719
70°	1826	1765	1627
75°	1672	1661	1540
80°	1621	1588	1475
85°	1507	1572	1474

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 2092 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	2.3
10°-20°	277.0	6.9
20°-30°	467.8	11.6
30°-40°	650.7	16.2
40°-50°	770.3	19.1
50°-60°	747.3	18.6
60°-70°	575.8	14.3
70°-80°	336.0	8.3
80°-90°	109.8	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°	836.2	20.8
0°-40°	1486.9	36.9
0°-60°	3004.4	74.6
0°-90°	4026.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4026.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	955	956	956	956	955	91
15°	977	977	974	972	972	278
25°	1024	1020	1010	1000	996	474
35°	1070	1061	1039	1017	1008	670
45°	1050	1036	1004	970	953	807
55°	892	876	843	804	783	792
65°	616	609	586	556	540	608
75°	322	329	320	305	296	344
85°	98	102	102	100	96	109
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	952.1	952.1	952.1	952.1	952.1
2.5°	952.8	953.5	953.5	953.5	953.5
5°	954.9	955.6	955.6	955.6	954.9
7.5°	958.4	958.4	959.1	958.4	956.3
10°	963.3	963.3	963.3	962.6	961.9
12.5°	968.9	969.6	968.2	967.5	966.8
15°	976.6	976.6	974.5	972.4	972.4
17.5°	987.2	985.8	982.9	979.4	978.0
20°	997.7	996.3	991.4	985.8	982.9
22.5°	1009.6	1006.8	1000.5	992.8	990.0
25°	1023.7	1019.5	1010.3	999.8	995.6
27.5°	1036.3	1030.7	1019.5	1007.5	1000.5
30°	1049.6	1042.6	1027.9	1012.4	1005.4
32.5°	1060.2	1053.2	1034.2	1016.6	1007.5
35°	1070.0	1060.9	1039.1	1017.3	1007.5
37.5°	1074.2	1064.4	1039.1	1013.8	1001.2
40°	1072.8	1062.3	1034.2	1005.4	990.7
42.5°	1065.8	1053.2	1023.0	990.7	973.8
45°	1050.3	1036.3	1004.0	969.6	952.8
47.5°	1023.7	1009.6	975.2	938.7	918.4
50°	988.6	973.8	941.5	900.8	879.7
52.5°	944.3	929.6	895.9	854.5	834.1
55°	891.7	876.2	843.2	803.9	782.8
57.5°	827.1	815.8	783.5	746.3	726.0
60°	761.1	749.8	720.4	685.3	664.9
62.5°	690.2	681.0	654.4	621.4	603.8
65°	615.7	608.7	586.3	556.1	539.9
67.5°	539.9	537.1	516.7	490.8	476.7
70°	464.1	465.5	448.6	425.5	413.5
72.5°	390.4	395.3	381.9	363.0	354.6
75°	321.6	329.3	319.5	304.7	296.3
77.5°	257.7	268.2	259.8	248.5	241.5
80°	209.2	208.5	205.0	196.6	190.3
82.5°	150.3	153.1	151.0	146.0	142.5
85°	97.6	102.5	101.8	99.7	95.5
87.5°	48.4	54.1	54.8	53.4	51.3
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	15.3	17.0	15.6	17.3	17.6	14.6	16.3	14.9	16.6	16.9
	3H	17.1	18.6	17.4	19.0	19.3	16.4	18.0	16.7	18.3	18.6
	4H	17.7	19.2	18.1	19.6	19.9	17.1	18.6	17.5	18.9	19.3
	6H	18.3	19.7	18.7	20.0	20.4	17.6	19.0	18.0	19.4	19.8
	8H	18.5	19.8	18.9	20.2	20.6	17.8	19.1	18.2	19.5	19.9
	12H	18.6	19.9	19.0	20.3	20.7	18.0	19.3	18.4	19.6	20.1
4H	2H	15.8	17.3	16.2	17.7	18.1	15.3	16.8	15.7	17.2	17.5
	3H	17.9	19.2	18.3	19.6	20.0	17.3	18.6	17.7	19.0	19.4
	4H	18.7	19.9	19.1	20.3	20.7	18.1	19.3	18.6	19.7	20.1
	6H	19.4	20.4	19.8	20.8	21.3	18.8	19.8	19.3	20.3	20.7
	8H	19.6	20.6	20.1	21.0	21.5	19.1	20.0	19.6	20.5	20.9
	12H	19.8	20.7	20.3	21.2	21.6	19.3	20.2	19.8	20.6	21.1
8H	4H	19.0	20.0	19.5	20.4	20.9	18.5	19.5	19.0	19.9	20.4
	6H	19.9	20.6	20.3	21.1	21.6	19.4	20.2	19.9	20.6	21.1
	8H	20.2	20.9	20.7	21.4	21.9	19.7	20.4	20.2	20.9	21.4
	12H	20.5	21.1	21.0	21.6	22.2	20.0	20.7	20.5	21.2	21.7
12H	4H	19.1	19.9	19.6	20.4	20.9	18.6	19.4	19.1	19.9	20.4
	6H	19.9	20.7	20.5	21.1	21.6	19.5	20.2	20.0	20.6	21.2
	8H	20.3	21.0	20.8	21.5	22.0	19.9	20.5	20.4	21.0	21.6















(END OF REPORT)