

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: P1526892

Luminaire Tested: 24CGTX-40HE-A125-L835

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2507-496-4)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CGTX-40HE-A125-L835
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

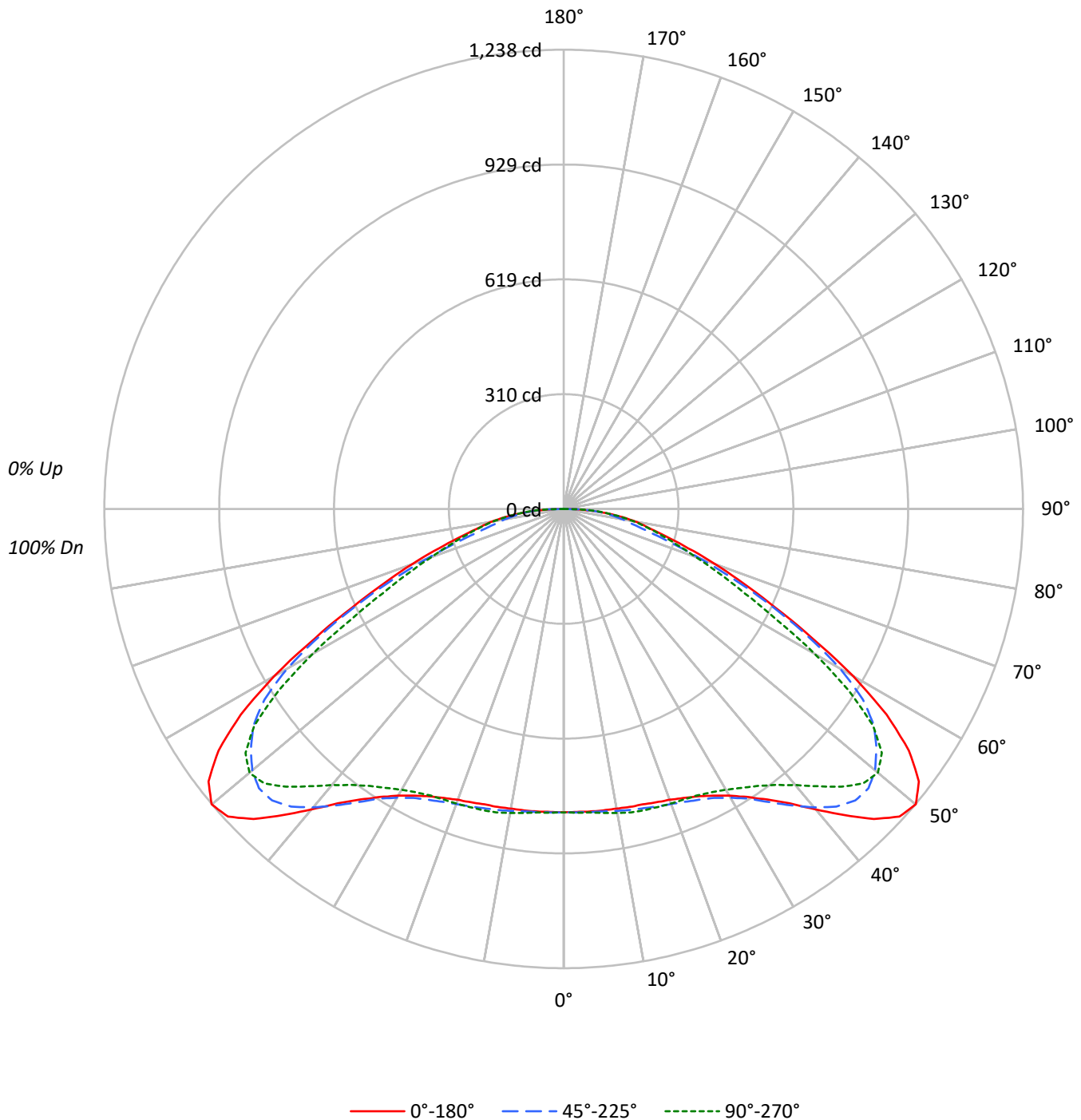
Lumens per Lamp: N/A
Luminaire Lumens: 4082.8 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.9
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

TEST NUMBER: P1526892

CATALOG NUMBER: 24CGTX-40HE-A125-L835

Luminous Intensity Polar Plot



TEST NUMBER: P1526892

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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	80	74	94	86	79	73	82	76	71	79	74	70	76	72	68	66			
3	87	76	67	60	85	74	66	59	71	64	58	68	62	57	66	60	56	54			
4	79	66	56	49	77	65	56	49	62	54	48	60	53	47	57	51	47	44			
5	72	58	48	41	70	57	48	41	55	46	40	53	45	40	51	44	39	37			
6	66	51	42	35	64	50	41	35	49	40	34	47	39	34	45	39	34	31			
7	61	46	36	30	59	45	36	30	43	35	29	42	35	29	41	34	29	27			
8	56	41	32	26	54	41	32	26	39	31	26	38	31	25	37	30	25	23			
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20			
10	48	34	26	20	47	34	26	20	33	25	20	32	25	20	31	24	20	18			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1100	1100	1100
5°	1106	1108	1109
10°	1120	1129	1137
15°	1148	1163	1171
20°	1194	1212	1209
25°	1269	1283	1265
30°	1386	1396	1357
35°	1570	1584	1497
40°	1856	1844	1706
45°	2249	2115	2015
50°	2592	2294	2314
55°	2665	2396	2388
60°	2422	2315	2102
65°	2003	1967	1715
70°	1710	1541	1491
75°	1481	1227	1411
80°	1533	1244	1485
85°	1550	1494	1647

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 2667 cd/sqm

TEST NUMBER: P1526892

CATALOG NUMBER: 24CGTX-40HE-A125-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	1.9
10°-20°	236.7	5.8
20°-30°	399.9	9.8
30°-40°	601.9	14.7
40°-50°	855.9	21.0
50°-60°	918.6	22.5
60°-70°	598.6	14.7
70°-80°	287.8	7.1
80°-90°	104.8	2.6
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°	715.1	17.5
0°-40°	1317.0	32.3
0°-60°	3091.5	75.7
0°-90°	4082.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4082.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	818	818	818	818	818	
5°	819	819	820	823	821	78
15°	824	828	835	840	840	234
25°	855	862	864	857	852	398
35°	956	974	964	932	911	607
45°	1182	1153	1111	1082	1059	907
55°	1136	1107	1022	992	1018	994
65°	629	624	618	551	539	637
75°	285	269	236	269	272	313
85°	100	94	97	100	107	109
90°	0	0	0	0	0	

TEST NUMBER: P1526892

CATALOG NUMBER: 24CGTX-40HE-A125-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	817.9	817.9	817.9	817.9	817.9
2.5°	817.2	817.9	818.6	819.3	819.3
5°	818.6	819.3	820.0	822.8	821.4
7.5°	819.3	820.0	822.1	826.4	826.4
10°	820.0	822.1	826.4	830.6	832.0
12.5°	822.8	825.0	830.6	836.3	837.7
15°	824.2	828.5	834.9	839.8	840.5
17.5°	829.2	833.4	840.5	842.6	842.6
20°	834.1	839.8	846.2	846.2	844.7
22.5°	843.3	849.7	854.6	850.4	847.6
25°	854.6	862.4	864.5	856.8	851.8
27.5°	870.9	880.8	878.0	867.4	861.0
30°	892.1	904.8	898.5	882.9	873.7
32.5°	920.4	935.9	925.3	905.5	891.4
35°	955.7	974.1	964.2	931.7	911.2
37.5°	999.6	1018.6	1006.6	964.9	937.4
40°	1056.8	1066.7	1049.8	1004.5	971.3
42.5°	1119.0	1114.1	1087.9	1046.2	1013.7
45°	1181.9	1153.0	1111.3	1082.3	1058.9
47.5°	1227.2	1173.5	1114.1	1099.2	1095.0
50°	1238.5	1169.2	1095.7	1090.0	1105.6
52.5°	1206.7	1146.6	1062.5	1052.6	1080.9
55°	1136.0	1107.0	1021.5	991.8	1017.9
57.5°	1032.1	1030.0	956.4	903.4	910.5
60°	899.9	908.4	860.3	785.4	781.1
62.5°	757.1	762.0	740.8	663.1	648.2
65°	629.1	624.2	617.8	551.4	538.7
67.5°	523.8	509.0	499.1	458.8	452.4
70°	434.7	411.4	391.6	385.3	378.9
72.5°	352.0	335.1	303.3	320.9	320.2
75°	284.9	269.3	236.1	268.6	271.5
77.5°	233.3	222.7	190.9	220.6	229.7
80°	197.9	176.0	160.5	179.6	191.6
82.5°	151.3	134.3	130.8	138.6	149.9
85°	100.4	94.0	96.8	99.7	106.7
87.5°	50.9	54.4	58.7	63.6	67.2
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1526892

CATALOG NUMBER: 24CGTX-40HE-A125-L835

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	16.7	18.5	17.1	18.8	19.1	15.8	17.6	16.2	17.9	18.2
	3H	17.8	19.4	18.2	19.8	20.1	17.0	18.6	17.3	18.9	19.3
	4H	18.2	19.8	18.6	20.1	20.5	17.4	18.9	17.8	19.3	19.7
	6H	18.6	20.0	19.0	20.4	20.8	17.9	19.3	18.3	19.6	20.0
	8H	18.7	20.1	19.2	20.5	20.9	18.1	19.4	18.5	19.8	20.2
	12H	18.9	20.2	19.3	20.6	21.0	18.2	19.5	18.7	19.9	20.3
4H	2H	17.1	18.7	17.5	19.0	19.4	16.4	17.9	16.8	18.3	18.6
	3H	18.4	19.7	18.8	20.1	20.5	17.7	19.0	18.1	19.4	19.8
	4H	18.9	20.1	19.4	20.5	20.9	18.3	19.4	18.7	19.9	20.3
	6H	19.4	20.4	19.9	20.9	21.3	18.9	19.9	19.3	20.3	20.8
	8H	19.6	20.6	20.1	21.0	21.5	19.1	20.1	19.6	20.5	21.0
	12H	19.8	20.7	20.3	21.2	21.6	19.4	20.2	19.8	20.7	21.2
8H	4H	19.1	20.0	19.5	20.5	20.9	18.5	19.4	18.9	19.9	20.3
	6H	19.7	20.5	20.2	21.0	21.4	19.2	20.0	19.7	20.5	21.0
	8H	20.0	20.7	20.5	21.2	21.7	19.5	20.3	20.1	20.8	21.3
	12H	20.3	20.9	20.8	21.4	22.0	19.9	20.5	20.4	21.0	21.6
12H	4H	19.1	20.0	19.6	20.4	20.9	18.5	19.4	19.0	19.9	20.3
	6H	19.7	20.5	20.3	20.9	21.5	19.3	20.0	19.8	20.4	21.0
	8H	20.1	20.7	20.6	21.2	21.8	19.7	20.3	20.2	20.8	21.4











(END OF REPORT)