

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: P1526898

Luminaire Tested: 24CGTX-45-A125-L830

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1526898
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-45-A125-L830
Description: CGTX with A125 Lens Option

Light Source:
Ballast/Driver: -

Summary

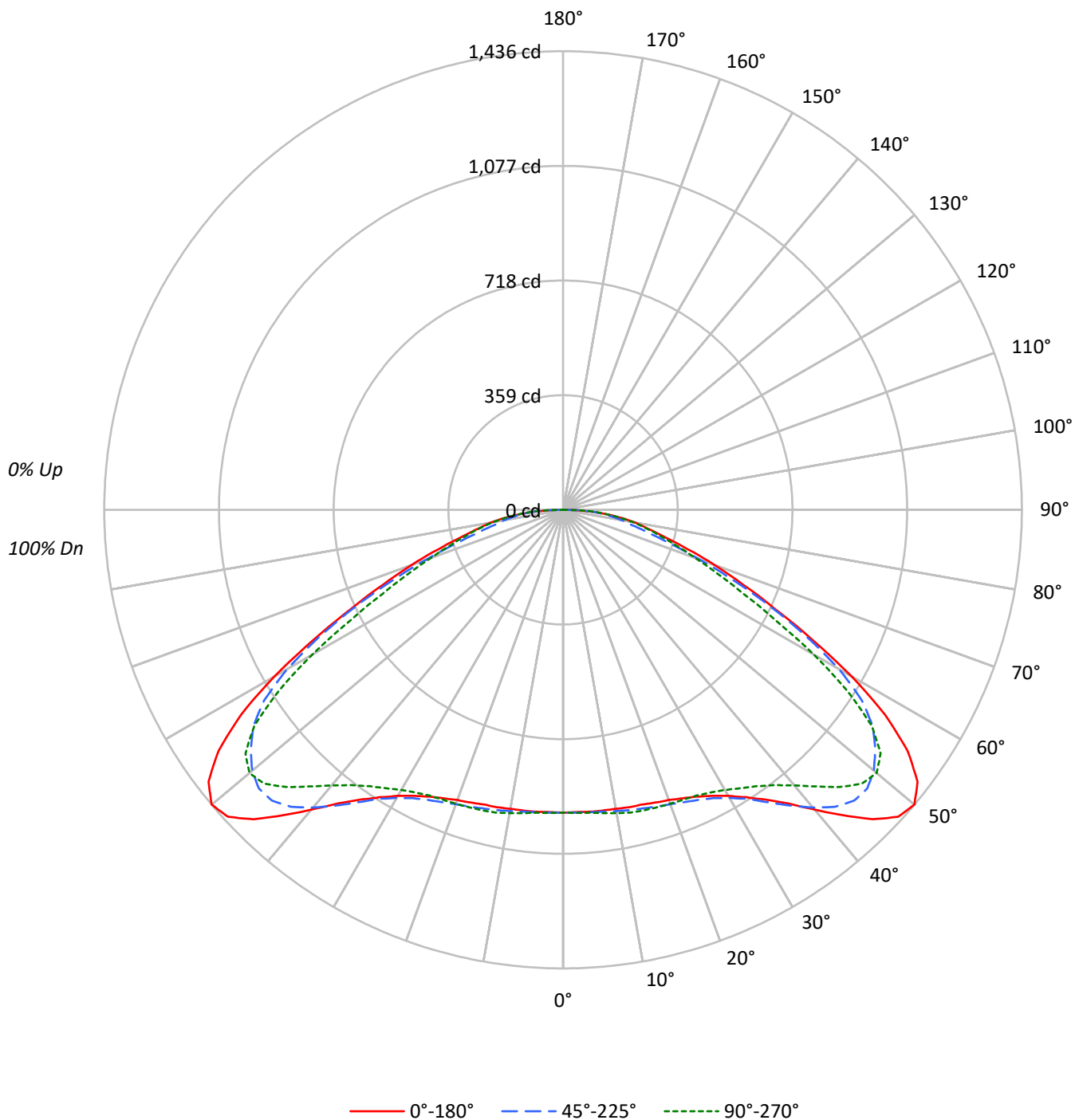
Lumens per Lamp: N/A
Luminaire Lumens: 4732.1 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 1.82 / 1.97
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35.6
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	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°	1276	1276	1276
5°	1281	1284	1286
10°	1298	1309	1317
15°	1331	1348	1357
20°	1384	1404	1402
25°	1471	1488	1466
30°	1606	1618	1573
35°	1819	1836	1735
40°	2151	2137	1977
45°	2607	2451	2336
50°	3005	2658	2682
55°	3089	2777	2768
60°	2807	2683	2436
65°	2322	2280	1988
70°	1982	1786	1728
75°	1717	1423	1635
80°	1777	1441	1720
85°	1795	1732	1910

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 3091 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	1.9
10°-20°	274.4	5.8
20°-30°	463.5	9.8
30°-40°	697.7	14.7
40°-50°	992.1	21.0
50°-60°	1064.7	22.5
60°-70°	693.8	14.7
70°-80°	333.6	7.1
80°-90°	121.4	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°	828.8	17.5
0°-40°	1526.5	32.3
0°-60°	3583.2	75.7
0°-90°	4732.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4732.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	949	950	950	954	952	91
15°	955	960	968	973	974	272
25°	991	1000	1002	993	987	461
35°	1108	1129	1118	1080	1056	703
45°	1370	1336	1288	1254	1227	1052
55°	1317	1283	1184	1150	1180	1152
65°	729	724	716	639	624	738
75°	330	312	274	311	315	363
85°	116	109	112	116	124	127
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	948.0	948.0	948.0	948.0	948.0
2.5°	947.1	948.0	948.8	949.6	949.6
5°	948.8	949.6	950.4	953.7	952.1
7.5°	949.6	950.4	952.9	957.8	957.8
10°	950.4	952.9	957.8	962.7	964.3
12.5°	953.7	956.2	962.7	969.3	970.9
15°	955.3	960.3	967.6	973.4	974.2
17.5°	961.1	966.0	974.2	976.6	976.6
20°	966.8	973.4	980.7	980.7	979.1
22.5°	977.5	984.8	990.6	985.7	982.4
25°	990.6	999.6	1002.0	993.0	987.3
27.5°	1009.4	1020.9	1017.6	1005.3	997.9
30°	1034.0	1048.7	1041.4	1023.3	1012.7
32.5°	1066.8	1084.8	1072.5	1049.6	1033.2
35°	1107.7	1129.0	1117.6	1079.9	1056.1
37.5°	1158.5	1180.6	1166.7	1118.4	1086.4
40°	1224.9	1236.4	1216.7	1164.3	1125.8
42.5°	1297.0	1291.3	1260.9	1212.6	1174.9
45°	1369.9	1336.3	1288.0	1254.4	1227.4
47.5°	1422.4	1360.1	1291.3	1274.1	1269.1
50°	1435.5	1355.2	1270.0	1263.4	1281.4
52.5°	1398.6	1328.9	1231.4	1220.0	1252.8
55°	1316.7	1283.1	1183.9	1149.5	1179.8
57.5°	1196.2	1193.8	1108.5	1047.1	1055.3
60°	1043.0	1052.8	997.1	910.3	905.4
62.5°	877.5	883.2	858.7	768.5	751.3
65°	729.2	723.5	716.1	639.1	624.3
67.5°	607.1	589.9	578.4	531.7	524.4
70°	503.9	476.8	453.9	446.5	439.2
72.5°	408.0	388.4	351.5	372.0	371.2
75°	330.2	312.2	273.7	311.3	314.6
77.5°	270.4	258.1	221.2	255.6	266.3
80°	229.4	204.0	186.0	208.1	222.0
82.5°	175.3	155.7	151.6	160.6	173.7
85°	116.3	109.0	112.2	115.5	123.7
87.5°	59.0	63.1	68.0	73.7	77.8
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	17.2	19.0	17.6	19.3	19.7	16.3	18.1	16.7	18.4	18.7
	3H	18.3	20.0	18.7	20.3	20.6	17.5	19.1	17.8	19.4	19.8
	4H	18.7	20.3	19.1	20.6	21.0	17.9	19.5	18.3	19.8	20.2
	6H	19.1	20.5	19.5	20.9	21.3	18.4	19.8	18.8	20.1	20.5
	8H	19.3	20.6	19.7	21.0	21.4	18.6	19.9	19.0	20.3	20.7
	12H	19.4	20.7	19.8	21.1	21.5	18.7	20.0	19.2	20.4	20.9
4H	2H	17.6	19.2	18.0	19.5	19.9	16.9	18.4	17.3	18.8	19.1
	3H	18.9	20.2	19.3	20.6	21.0	18.2	19.5	18.6	19.9	20.3
	4H	19.4	20.6	19.9	21.0	21.4	18.8	20.0	19.2	20.4	20.8
	6H	19.9	20.9	20.4	21.4	21.8	19.4	20.4	19.8	20.8	21.3
	8H	20.1	21.1	20.6	21.5	22.0	19.6	20.6	20.1	21.0	21.5
	12H	20.3	21.2	20.8	21.7	22.1	19.9	20.7	20.4	21.2	21.7
8H	4H	19.6	20.6	20.1	21.0	21.5	19.0	20.0	19.5	20.4	20.9
	6H	20.2	21.0	20.7	21.5	22.0	19.7	20.5	20.2	21.0	21.5
	8H	20.5	21.2	21.0	21.7	22.2	20.1	20.8	20.6	21.3	21.8
	12H	20.8	21.4	21.3	21.9	22.5	20.4	21.1	20.9	21.5	22.1
12H	4H	19.6	20.5	20.1	21.0	21.4	19.0	19.9	19.5	20.4	20.8
	6H	20.3	21.0	20.8	21.4	22.0	19.8	20.5	20.3	21.0	21.5
	8H	20.6	21.2	21.1	21.7	22.3	20.2	20.8	20.7	21.3	21.9













(END OF REPORT)