

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: P1527111

Luminaire Tested: 24CGTX-40HE-F125-L850

Issue Date: 8/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1527111
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-40HE-F125-L850
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

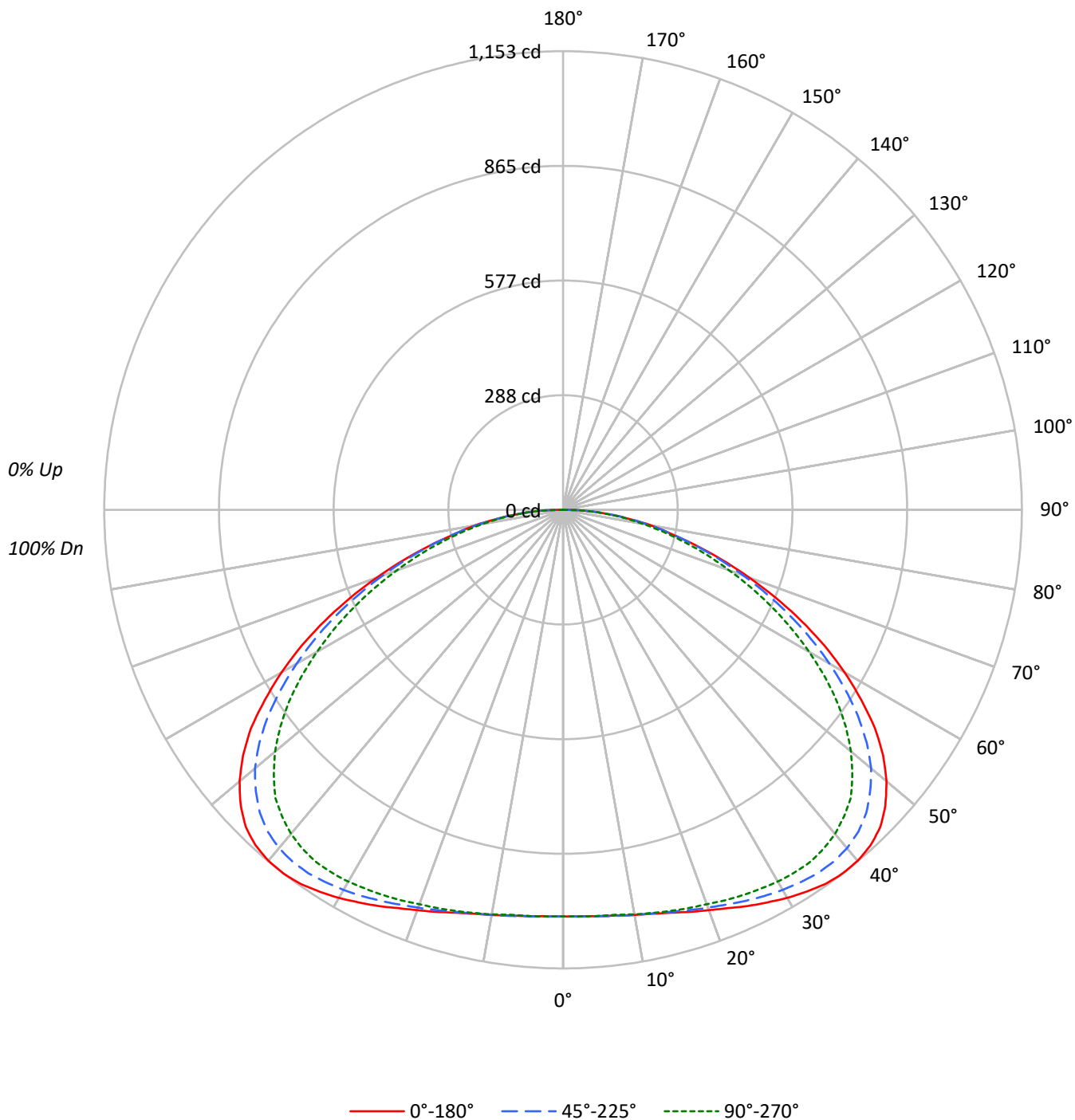
Lumens per Lamp: N/A
Luminaire Lumens: 4322.0 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 1.6 / 1.72
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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	50	30	10
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°	1375	1375	1375
5°	1385	1385	1385
10°	1413	1413	1411
15°	1460	1457	1454
20°	1534	1524	1511
25°	1631	1610	1587
30°	1751	1714	1677
35°	1887	1832	1777
40°	2023	1950	1868
45°	2146	2051	1946
50°	2221	2116	1977
55°	2245	2123	1971
60°	2199	2081	1921
65°	2104	2004	1845
70°	1960	1895	1746
75°	1795	1783	1654
80°	1740	1705	1583
85°	1618	1687	1582

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 55°

Luminance: 2245 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.1	2.3
10°-20°	297.3	6.9
20°-30°	502.2	11.6
30°-40°	698.5	16.2
40°-50°	826.9	19.1
50°-60°	802.2	18.6
60°-70°	618.1	14.3
70°-80°	360.7	8.3
80°-90°	117.9	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°	897.6	20.8
0°-40°	1596.2	36.9
0°-60°	3225.3	74.6
0°-90°	4322.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4322.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1022	1022	1022	1022	1022	
5°	1025	1026	1026	1026	1025	98
15°	1048	1048	1046	1044	1044	298
25°	1099	1094	1085	1073	1069	509
35°	1149	1139	1116	1092	1082	720
45°	1128	1112	1078	1041	1023	866
55°	957	941	905	863	840	850
65°	661	654	629	597	580	653
75°	345	354	343	327	318	370
85°	105	110	109	107	102	117
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1022.1	1022.1	1022.1	1022.1	1022.1
2.5°	1022.8	1023.6	1023.6	1023.6	1023.6
5°	1025.1	1025.8	1025.8	1025.8	1025.1
7.5°	1028.8	1028.8	1029.6	1028.8	1026.6
10°	1034.1	1034.1	1034.1	1033.4	1032.6
12.5°	1040.1	1040.9	1039.4	1038.6	1037.9
15°	1048.4	1048.4	1046.2	1043.9	1043.9
17.5°	1059.7	1058.2	1055.2	1051.4	1049.9
20°	1071.0	1069.5	1064.3	1058.2	1055.2
22.5°	1083.9	1080.8	1074.1	1065.8	1062.8
25°	1098.9	1094.4	1084.6	1073.3	1068.8
27.5°	1112.5	1106.5	1094.4	1081.6	1074.1
30°	1126.8	1119.3	1103.5	1086.9	1079.3
32.5°	1138.1	1130.6	1110.2	1091.4	1081.6
35°	1148.7	1138.9	1115.5	1092.1	1081.6
37.5°	1153.2	1142.6	1115.5	1088.4	1074.8
40°	1151.7	1140.4	1110.2	1079.3	1063.5
42.5°	1144.2	1130.6	1098.2	1063.5	1045.4
45°	1127.6	1112.5	1077.8	1040.9	1022.8
47.5°	1098.9	1083.9	1046.9	1007.7	985.9
50°	1061.2	1045.4	1010.7	967.0	944.4
52.5°	1013.8	997.9	961.8	917.3	895.4
55°	957.2	940.6	905.2	863.0	840.4
57.5°	887.9	875.8	841.2	801.2	779.4
60°	817.0	805.0	773.3	735.6	713.8
62.5°	740.9	731.1	702.5	667.0	648.2
65°	661.0	653.5	629.4	597.0	579.6
67.5°	579.6	576.6	554.7	526.9	511.8
70°	498.2	499.7	481.6	456.8	443.9
72.5°	419.1	424.3	410.0	389.7	380.6
75°	345.2	353.5	342.9	327.1	318.1
77.5°	276.6	287.9	278.9	266.8	259.3
80°	224.6	223.9	220.1	211.0	204.3
82.5°	161.3	164.3	162.1	156.8	153.0
85°	104.8	110.0	109.3	107.0	102.5
87.5°	52.0	58.0	58.8	57.3	55.0
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	15.5	17.2	15.9	17.5	17.9	14.8	16.6	15.2	16.9	17.2
	3H	17.3	18.9	17.7	19.2	19.6	16.6	18.2	17.0	18.5	18.9
	4H	18.0	19.5	18.4	19.8	20.2	17.3	18.8	17.7	19.1	19.5
	6H	18.5	19.9	18.9	20.3	20.6	17.9	19.2	18.3	19.6	20.0
	8H	18.7	20.0	19.1	20.4	20.8	18.1	19.4	18.5	19.8	20.2
	12H	18.9	20.1	19.3	20.5	20.9	18.2	19.5	18.7	19.9	20.3
4H	2H	16.1	17.6	16.5	17.9	18.3	15.6	17.1	16.0	17.4	17.8
	3H	18.1	19.4	18.6	19.8	20.2	17.6	18.8	18.0	19.2	19.6
	4H	19.0	20.1	19.4	20.5	20.9	18.4	19.5	18.8	19.9	20.4
	6H	19.6	20.6	20.1	21.1	21.5	19.1	20.1	19.5	20.5	21.0
	8H	19.9	20.8	20.3	21.3	21.7	19.3	20.3	19.8	20.7	21.2
	12H	20.1	20.9	20.6	21.4	21.9	19.6	20.4	20.0	20.9	21.4
8H	4H	19.3	20.2	19.7	20.7	21.1	18.8	19.7	19.2	20.2	20.6
	6H	20.1	20.9	20.6	21.4	21.8	19.6	20.4	20.1	20.9	21.4
	8H	20.4	21.1	20.9	21.7	22.1	20.0	20.7	20.5	21.2	21.7
	12H	20.7	21.4	21.2	21.9	22.4	20.3	20.9	20.8	21.4	22.0
12H	4H	19.3	20.2	19.8	20.6	21.1	18.8	19.7	19.3	20.2	20.6
	6H	20.2	20.9	20.7	21.4	21.9	19.7	20.4	20.2	20.9	21.4
	8H	20.6	21.2	21.1	21.7	22.3	20.1	20.8	20.6	21.2	21.8













(END OF REPORT)