

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: P1584177

Luminaire Tested: 14CGSB-45-F125-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584177
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P1527393)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CGSB-45-F125-L830
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

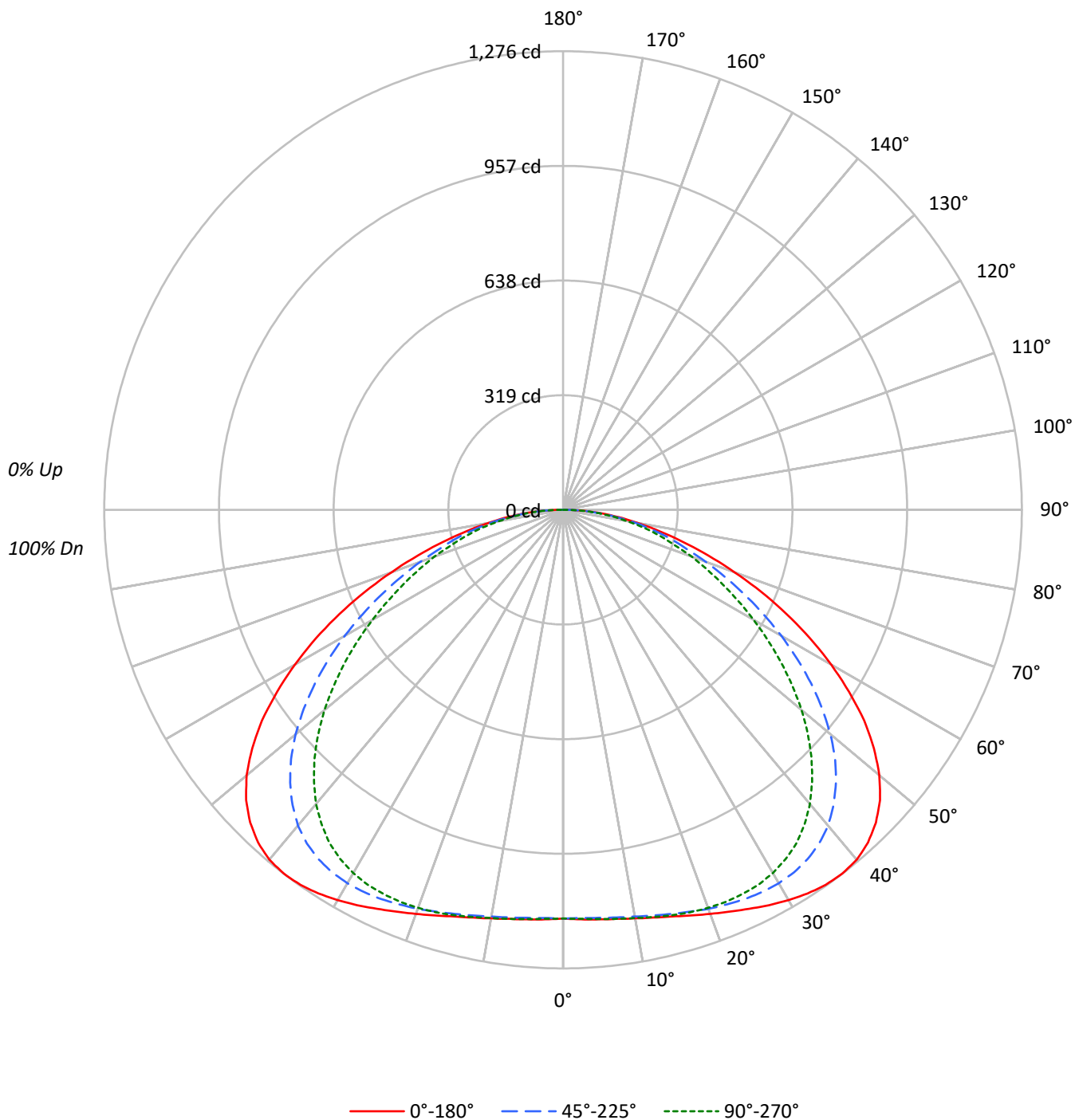
Lumens per Lamp: N/A
Luminaire Lumens: 4357.6 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.68 / 1.5 / 1.61
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 49.5
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	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56			
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47			
5	74	61	51	44	72	59	51	44	57	50	44	55	48	43	53	47	43	40			
6	68	54	45	38	66	53	44	38	51	44	38	50	43	37	48	42	37	35			
7	63	49	40	33	61	48	39	33	46	39	33	45	38	33	44	37	32	30			
8	58	44	36	29	57	44	35	29	42	35	29	41	34	29	40	34	29	27			
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24			
10	51	37	29	24	50	37	29	24	36	28	23	35	28	23	34	28	23	21			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3060	3060	3060
5°	3090	3078	3087
10°	3154	3140	3151
15°	3263	3242	3253
20°	3426	3383	3375
25°	3636	3548	3503
30°	3896	3727	3625
35°	4184	3896	3719
40°	4464	4029	3753
45°	4682	4085	3719
50°	4808	4063	3625
55°	4796	3950	3473
60°	4636	3770	3293
65°	4366	3540	3114
70°	3995	3315	2993
75°	3594	3192	2890
80°	3287	3101	2793
85°	3159	2967	2791

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 4818 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.3	2.5
10°-20°	331.3	7.6
20°-30°	554.5	12.7
30°-40°	747.1	17.1
40°-50°	838.0	19.2
50°-60°	769.0	17.6
60°-70°	568.7	13.1
70°-80°	330.9	7.6
80°-90°	108.8	2.5
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°	995.1	22.8
0°-40°	1742.2	40.0
0°-60°	3349.2	76.9
0°-90°	4357.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4357.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1137	1137	1137	1137	1137	
5°	1144	1143	1139	1140	1143	109
15°	1171	1169	1164	1165	1168	333
25°	1225	1216	1195	1182	1180	568
35°	1274	1247	1186	1144	1132	798
45°	1230	1184	1073	1001	977	946
55°	1022	964	842	764	740	908
65°	686	644	556	505	489	678
75°	346	341	307	283	278	370
85°	102	105	96	97	90	112
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1137.1	1137.1	1137.1	1137.1	1137.1
2.5°	1140.5	1140.5	1136.5	1137.7	1138.8
5°	1143.9	1143.4	1139.4	1139.9	1142.8
7.5°	1147.9	1147.9	1143.9	1143.9	1147.9
10°	1154.2	1153.0	1149.0	1150.2	1153.0
12.5°	1162.1	1159.8	1155.9	1157.0	1160.4
15°	1171.2	1168.9	1163.8	1165.0	1167.8
17.5°	1183.2	1179.7	1172.4	1172.4	1174.1
20°	1196.2	1190.5	1181.4	1176.9	1178.6
22.5°	1210.4	1203.1	1188.3	1180.3	1180.9
25°	1224.7	1215.6	1195.1	1182.0	1179.7
27.5°	1240.0	1226.9	1199.1	1180.9	1176.3
30°	1253.7	1237.2	1199.6	1174.6	1166.7
32.5°	1265.6	1244.0	1195.7	1162.7	1152.5
35°	1273.6	1246.8	1186.0	1144.5	1132.0
37.5°	1275.8	1243.4	1170.1	1119.5	1103.0
40°	1270.7	1232.6	1146.8	1086.5	1068.3
42.5°	1255.4	1213.3	1113.8	1046.7	1025.1
45°	1230.3	1183.7	1073.4	1000.6	977.3
47.5°	1195.7	1142.8	1026.2	947.8	923.3
50°	1148.5	1092.8	970.5	890.3	865.9
52.5°	1089.9	1031.9	908.5	829.5	803.4
55°	1022.3	963.7	842.0	763.6	740.3
57.5°	943.2	889.2	772.1	697.6	675.4
60°	861.4	810.2	700.5	631.7	611.8
62.5°	774.9	728.3	628.2	566.3	549.2
65°	685.7	644.2	556.0	505.4	489.0
67.5°	596.4	564.6	487.2	442.3	433.2
70°	507.7	483.8	421.3	391.7	380.4
72.5°	423.6	411.1	358.8	338.9	323.5
75°	345.7	341.1	307.0	282.6	278.0
77.5°	275.2	282.0	252.4	234.8	230.8
80°	212.1	218.9	200.1	185.3	180.2
82.5°	154.6	163.7	145.0	141.6	136.5
85°	102.3	105.2	96.1	97.2	90.4
87.5°	50.0	55.7	50.6	52.3	48.9
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	18.1	19.8	18.5	20.1	20.4	16.3	18.0	16.6	18.3	18.6
	3H	19.8	21.4	20.2	21.7	22.1	18.0	19.5	18.4	19.9	20.2
	4H	20.5	21.9	20.9	22.3	22.6	18.7	20.2	19.1	20.5	20.9
	6H	21.0	22.3	21.4	22.7	23.1	19.3	20.6	19.7	21.0	21.4
	8H	21.1	22.4	21.6	22.8	23.2	19.5	20.8	19.9	21.2	21.6
	12H	21.3	22.5	21.7	22.9	23.3	19.7	20.9	20.1	21.3	21.7
4H	2H	18.5	20.0	18.9	20.3	20.7	17.1	18.5	17.4	18.9	19.2
	3H	20.5	21.7	20.9	22.1	22.5	19.0	20.2	19.4	20.6	21.0
	4H	21.3	22.4	21.7	22.8	23.2	19.8	20.9	20.2	21.3	21.8
	6H	22.0	22.9	22.4	23.4	23.8	20.5	21.5	21.0	21.9	22.4
	8H	22.2	23.1	22.7	23.5	24.0	20.8	21.7	21.3	22.1	22.6
	12H	22.4	23.2	22.9	23.7	24.2	21.0	21.8	21.5	22.3	22.8
8H	4H	21.5	22.5	22.0	22.9	23.4	20.2	21.1	20.7	21.6	22.0
	6H	22.3	23.1	22.8	23.6	24.1	21.1	21.8	21.6	22.3	22.8
	8H	22.7	23.4	23.2	23.9	24.4	21.5	22.1	22.0	22.6	23.1
	12H	23.0	23.6	23.5	24.1	24.6	21.8	22.4	22.3	22.9	23.4
12H	4H	21.6	22.4	22.1	22.9	23.3	20.3	21.1	20.8	21.6	22.1
	6H	22.4	23.1	22.9	23.6	24.1	21.2	21.9	21.7	22.4	22.9
	8H	22.8	23.4	23.3	23.9	24.5	21.6	22.2	22.1	22.7	23.3















(END OF REPORT)