

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: P1584178

Luminaire Tested: 14CGSB-45-F125-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584178
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-L835
Description: CGTX with F125 Lens Option

Light Source:
Ballast/Driver: -

Summary

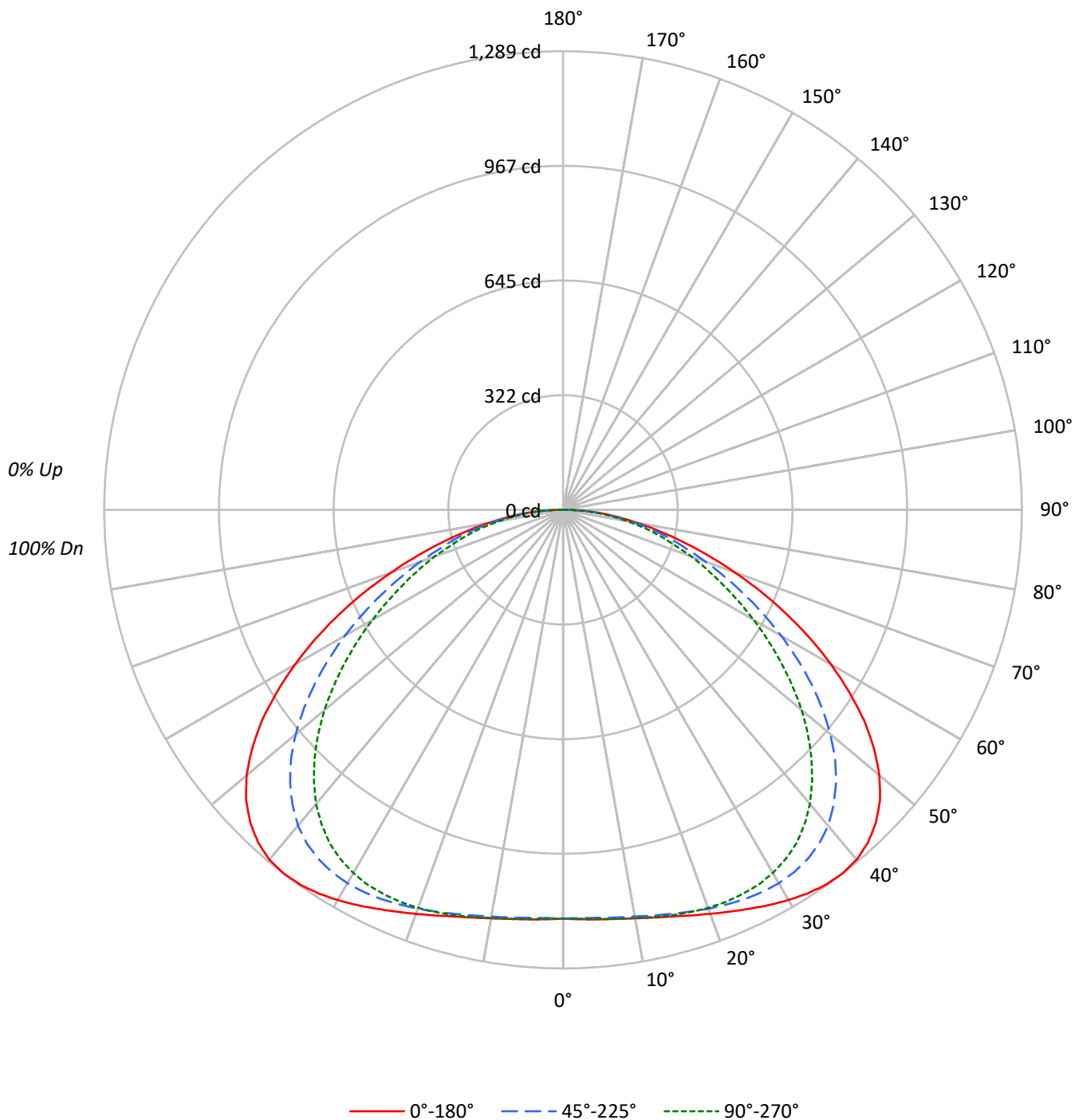
Lumens per Lamp: N/A
Luminaire Lumens: 4401.6 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.68 / 1.5 / 1.61
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	94	105	101	97	93	96	93	90		93	90	87		89
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68
4	81	68	59	52	78	67	58	52	64	57	51		62	56	50		60
5	74	61	51	44	72	59	51	44	57	50	44		55	48	43		53
6	68	54	45	38	66	53	44	38	51	44	38		50	43	37		48
7	63	49	40	33	61	48	39	33	46	39	33		45	38	33		44
8	58	44	36	29	57	44	35	29	42	35	29		41	34	29		40
9	54	41	32	26	53	40	32	26	39	31	26		38	31	26		37
10	51	37	29	24	50	37	29	24	36	28	23		35	28	23		34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3091	3091	3091
5°	3121	3109	3118
10°	3186	3171	3183
15°	3296	3275	3286
20°	3460	3418	3409
25°	3673	3584	3538
30°	3935	3765	3662
35°	4226	3936	3756
40°	4509	4069	3791
45°	4730	4126	3757
50°	4857	4104	3661
55°	4845	3990	3508
60°	4683	3808	3326
65°	4410	3577	3145
70°	4035	3349	3023
75°	3631	3224	2920
80°	3319	3133	2822
85°	3193	2998	2819

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 4866 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.4	2.5
10°-20°	334.7	7.6
20°-30°	560.1	12.7
30°-40°	754.6	17.1
40°-50°	846.5	19.2
50°-60°	776.7	17.6
60°-70°	574.5	13.1
70°-80°	334.2	7.6
80°-90°	109.9	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°	1005.2	22.8
0°-40°	1759.8	40.0
0°-60°	3383.0	76.9
0°-90°	4401.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4401.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1149	1149	1149	1149	1149	
5°	1156	1155	1151	1152	1154	111
15°	1183	1181	1176	1177	1180	336
25°	1237	1228	1207	1194	1192	574
35°	1286	1259	1198	1156	1143	806
45°	1243	1196	1084	1011	987	955
55°	1033	973	850	771	748	917
65°	693	651	562	510	494	685
75°	349	345	310	285	281	374
85°	103	106	97	98	91	114
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1148.6	1148.6	1148.6	1148.6	1148.6
2.5°	1152.0	1152.0	1148.0	1149.2	1150.3
5°	1155.5	1154.9	1150.9	1151.5	1154.3
7.5°	1159.5	1159.5	1155.5	1155.5	1159.5
10°	1165.8	1164.7	1160.6	1161.8	1164.7
12.5°	1173.9	1171.6	1167.5	1168.7	1172.1
15°	1183.0	1180.7	1175.6	1176.7	1179.6
17.5°	1195.1	1191.7	1184.2	1184.2	1185.9
20°	1208.3	1202.6	1193.4	1188.8	1190.5
22.5°	1222.7	1215.2	1200.3	1192.2	1192.8
25°	1237.0	1227.8	1207.2	1194.0	1191.7
27.5°	1252.5	1239.3	1211.2	1192.8	1188.2
30°	1266.3	1249.7	1211.8	1186.5	1178.4
32.5°	1278.4	1256.6	1207.7	1174.4	1164.1
35°	1286.4	1259.4	1198.0	1156.1	1143.4
37.5°	1288.7	1256.0	1181.9	1130.8	1114.1
40°	1283.5	1245.1	1158.3	1097.5	1079.1
42.5°	1268.0	1225.5	1125.0	1057.3	1035.5
45°	1242.8	1195.7	1084.3	1010.8	987.2
47.5°	1207.7	1154.3	1036.6	957.3	932.7
50°	1160.1	1103.8	980.3	899.3	874.6
52.5°	1100.9	1042.3	917.7	837.9	811.5
55°	1032.6	973.4	850.5	771.3	747.7
57.5°	952.8	898.2	779.9	704.7	682.3
60°	870.1	818.4	707.5	638.0	617.9
62.5°	782.8	735.7	634.6	572.0	554.8
65°	692.6	650.7	561.7	510.5	493.9
67.5°	602.4	570.3	492.2	446.8	437.6
70°	512.8	488.7	425.6	395.7	384.2
72.5°	427.8	415.2	362.4	342.3	326.8
75°	349.2	344.6	310.1	285.4	280.8
77.5°	278.0	284.8	255.0	237.2	233.2
80°	214.2	221.1	202.2	187.2	182.1
82.5°	156.2	165.4	146.4	143.0	137.8
85°	103.4	106.2	97.1	98.2	91.3
87.5°	50.5	56.3	51.1	52.8	49.4
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	16.7	18.3	18.6
	3H	19.9	21.4	20.2	21.7	22.1	18.0	19.6	18.4	19.9	20.3
	4H	20.5	22.0	20.9	22.3	22.7	18.7	20.2	19.1	20.5	20.9
	6H	21.0	22.3	21.4	22.7	23.1	19.3	20.7	19.7	21.0	21.4
	8H	21.2	22.5	21.6	22.9	23.3	19.5	20.8	20.0	21.2	21.6
	12H	21.3	22.5	21.7	22.9	23.4	19.7	20.9	20.1	21.3	21.8
4H	2H	18.5	20.0	18.9	20.3	20.7	17.1	18.5	17.5	18.9	19.3
	3H	20.5	21.8	20.9	22.1	22.5	19.0	20.2	19.4	20.6	21.0
	4H	21.3	22.4	21.8	22.8	23.3	19.8	21.0	20.3	21.4	21.8
	6H	22.0	23.0	22.4	23.4	23.9	20.6	21.5	21.0	22.0	22.4
	8H	22.2	23.1	22.7	23.6	24.0	20.8	21.7	21.3	22.2	22.6
	12H	22.4	23.2	22.9	23.7	24.2	21.1	21.9	21.5	22.4	22.8
8H	4H	21.6	22.5	22.0	22.9	23.4	20.3	21.2	20.7	21.6	22.1
	6H	22.4	23.1	22.9	23.6	24.1	21.1	21.9	21.6	22.4	22.8
	8H	22.7	23.4	23.2	23.9	24.4	21.5	22.2	22.0	22.7	23.2
	12H	23.0	23.6	23.5	24.1	24.7	21.8	22.4	22.3	22.9	23.5
12H	4H	21.6	22.4	22.1	22.9	23.4	20.3	21.2	20.8	21.6	22.1
	6H	22.4	23.1	23.0	23.6	24.1	21.2	21.9	21.8	22.4	22.9
	8H	22.8	23.4	23.3	23.9	24.5	21.7	22.3	22.2	22.8	23.3















(END OF REPORT)