

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P1586670

Luminaire Tested: 22CZSP-A-43HE-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-A-43HE-L950-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

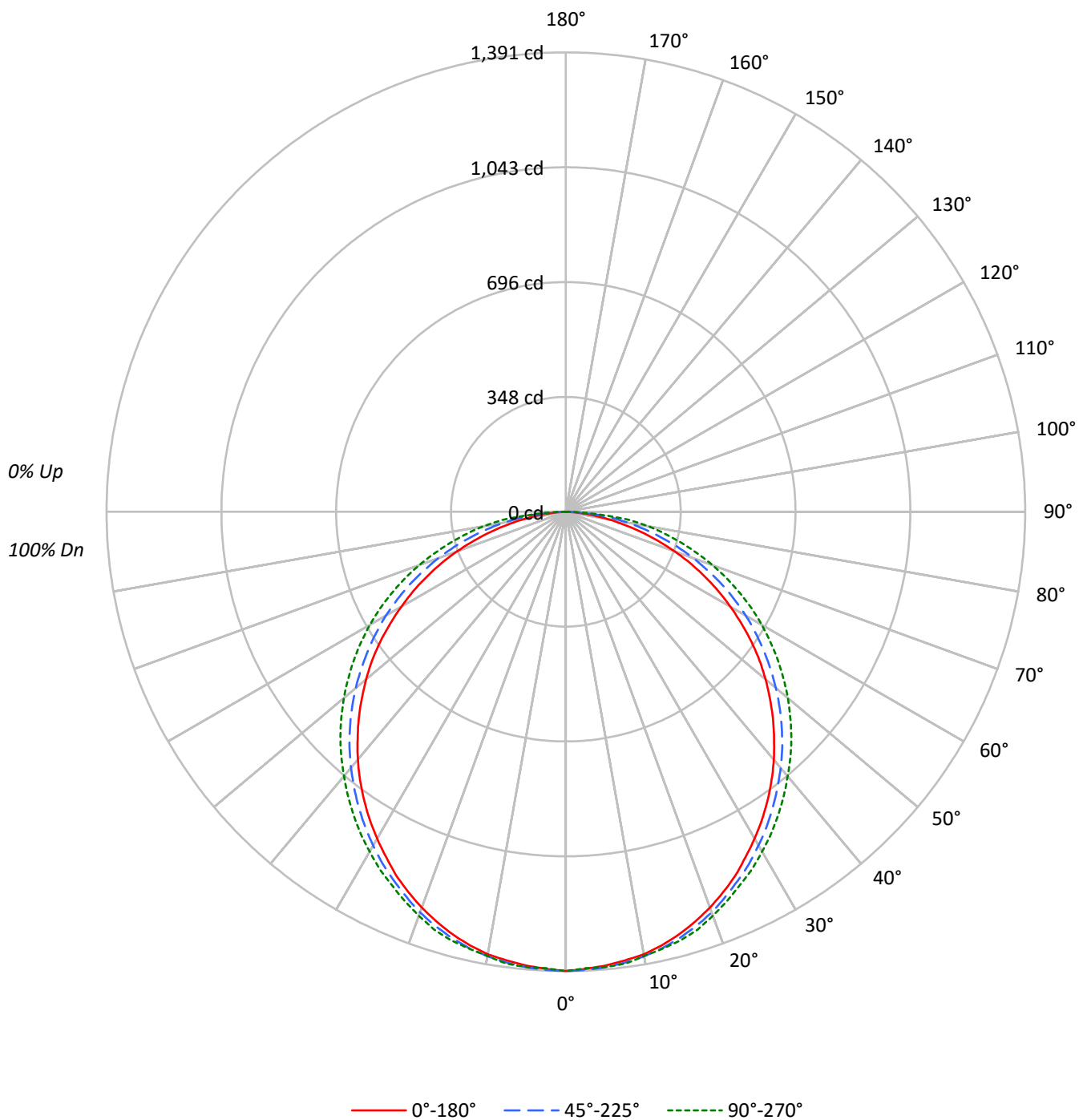
Lumens per Lamp: N/A
Luminaire Lumens: 4060.0 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1586670

CATALOG NUMBER: 22CZSP-A-43HE-L950-S

Luminous Intensity Polar Plot



TEST NUMBER: P1586670

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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	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4355	4355	4355
5°	4335	4352	4349
10°	4326	4345	4342
15°	4294	4329	4355
20°	4251	4302	4337
25°	4199	4257	4309
30°	4133	4220	4297
35°	4073	4179	4284
40°	4006	4137	4272
45°	3929	4095	4276
50°	3845	4045	4275
55°	3745	3988	4280
60°	3604	3944	4291
65°	3439	3868	4304
70°	3205	3760	4323
75°	2856	3610	4365
80°	2362	3437	4578
85°	1538	3104	4002

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4724 cd/sqm

TEST NUMBER: P1586670

CATALOG NUMBER: 22CZSP-A-43HE-L950-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	3.2
10°-20°	376.6	9.3
20°-30°	568.0	14.0
30°-40°	684.1	16.8
40°-50°	714.4	17.6
50°-60°	656.1	16.2
60°-70°	516.8	12.7
70°-80°	317.0	7.8
80°-90°	95.4	2.4
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°	1076.1	26.5
0°-40°	1760.2	43.4
0°-60°	3130.7	77.1
0°-90°	4060.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4060.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1391	1391	1391	1391	1391	
5°	1379	1381	1384	1389	1384	131
15°	1325	1327	1335	1343	1343	374
25°	1215	1218	1232	1247	1247	559
35°	1066	1071	1093	1115	1121	666
45°	887	897	925	957	966	684
55°	686	698	730	772	784	612
65°	464	480	522	566	581	459
75°	236	255	298	346	361	250
85°	43	59	86	110	111	56
90°	0	0	0	0	0	

TEST NUMBER: P1586670

CATALOG NUMBER: 22CZSP-A-43HE-L950-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1390.7	1390.7	1390.7	1390.7	1390.7
2.5°	1385.3	1388.0	1388.9	1389.8	1383.5
5°	1379.1	1380.9	1384.4	1388.9	1383.5
7.5°	1370.2	1371.9	1376.4	1382.6	1380.0
10°	1360.4	1361.3	1366.6	1371.1	1365.7
12.5°	1344.3	1347.0	1353.2	1356.8	1355.0
15°	1324.7	1327.4	1335.4	1343.4	1343.4
17.5°	1301.6	1305.1	1314.9	1325.6	1326.5
20°	1275.7	1278.4	1290.9	1301.6	1301.6
22.5°	1246.3	1249.9	1262.4	1274.0	1275.7
25°	1215.2	1217.8	1232.1	1247.2	1247.2
27.5°	1178.6	1184.0	1201.8	1216.9	1220.5
30°	1143.0	1147.4	1167.0	1185.8	1188.4
32.5°	1105.6	1110.9	1131.4	1151.9	1156.4
35°	1065.5	1070.8	1093.1	1115.4	1120.7
37.5°	1023.6	1029.9	1053.0	1078.9	1084.2
40°	980.0	987.1	1012.0	1039.7	1045.0
42.5°	933.6	943.4	970.2	998.7	1006.7
45°	887.3	897.1	924.7	956.8	965.7
47.5°	838.3	849.9	878.4	912.3	922.1
50°	789.3	800.9	830.3	866.8	877.5
52.5°	739.4	751.0	781.3	819.6	831.2
55°	686.0	698.4	730.5	771.5	784.0
57.5°	630.7	646.8	680.6	722.5	735.0
60°	575.5	591.5	629.8	670.8	685.1
62.5°	521.2	536.3	575.5	619.2	634.3
65°	464.1	480.2	522.1	565.7	580.9
67.5°	408.0	424.1	465.9	511.4	527.4
70°	350.1	367.9	410.7	456.1	472.2
72.5°	292.2	310.9	354.6	400.9	416.0
75°	236.1	254.8	298.4	345.7	360.8
77.5°	180.8	201.3	244.1	292.2	306.5
80°	131.0	150.6	190.6	237.9	253.9
82.5°	83.7	100.7	140.8	185.3	196.9
85°	42.8	58.8	86.4	109.6	111.4
87.5°	13.4	18.7	28.5	42.8	43.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1586670

CATALOG NUMBER: 22CZSP-A-43HE-L950-S

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	16.59	18.25	16.95	18.57	18.88	17.42	19.08	17.78	19.40	19.71
	3H	18.35	19.85	18.72	20.18	20.54	19.54	21.04	19.91	21.37	21.73
	4H	18.96	20.39	19.36	20.73	21.11	20.43	21.85	20.82	22.19	22.57
	6H	19.37	20.70	19.79	21.06	21.45	21.21	22.53	21.62	22.89	23.28
	8H	19.48	20.74	19.91	21.13	21.53	21.53	22.79	21.95	23.18	23.58
	12H	19.53	20.74	19.96	21.13	21.55	21.74	22.95	22.17	23.33	23.76
4H	2H	17.36	18.78	17.76	19.13	19.51	18.01	19.43	18.41	19.78	20.15
	3H	19.34	20.54	19.75	20.93	21.33	20.36	21.56	20.77	21.96	22.36
	4H	20.08	21.16	20.51	21.57	22.01	21.41	22.50	21.85	22.91	23.35
	6H	20.60	21.56	21.06	22.00	22.45	22.37	23.32	22.82	23.76	24.21
	8H	20.75	21.64	21.21	22.08	22.55	22.76	23.66	23.22	24.10	24.56
	12H	20.83	21.64	21.31	22.11	22.58	23.04	23.85	23.52	24.32	24.79
8H	4H	20.53	21.43	20.99	21.87	22.33	21.70	22.60	22.16	23.04	23.50
	6H	21.20	21.94	21.69	22.43	22.90	22.82	23.56	23.31	24.05	24.52
	8H	21.41	22.07	21.91	22.58	23.06	23.33	24.00	23.83	24.50	24.99
	12H	21.55	22.14	22.05	22.63	23.19	23.71	24.31	24.22	24.79	25.35
12H	4H	20.62	21.43	21.10	21.90	22.37	21.73	22.53	22.21	23.01	23.47
	6H	21.33	22.00	21.83	22.50	22.99	22.86	23.53	23.37	24.04	24.52
	8H	21.61	22.20	22.11	22.69	23.25	23.44	24.03	23.95	24.52	25.08