

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: P1586425

Luminaire Tested: 22CZSP-43HE-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-668-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-43HE-L935
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

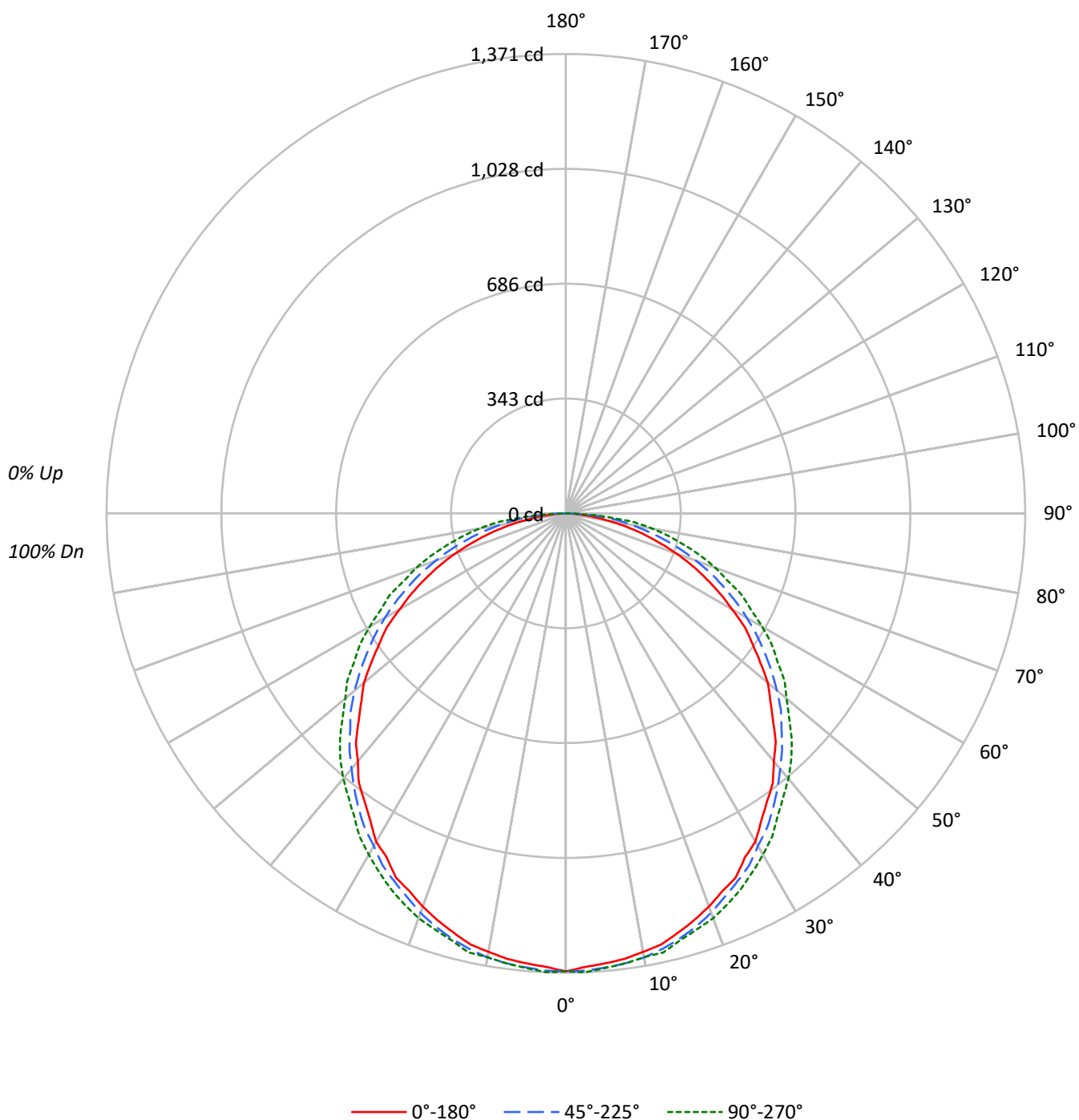
Lumens per Lamp: N/A
Luminaire Lumens: 4026.0 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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: P1586425

CATALOG NUMBER: 22CZSP-43HE-L935

Luminous Intensity Polar Plot



TEST NUMBER: P1586425

CATALOG NUMBER: 22CZSP-43HE-L935

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	95	105	101	97	93	97	93	90		93	90	87		89
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61
5	75	62	53	46	73	61	52	46	58	51	45		56	50	44		55
6	69	56	46	40	67	55	46	40	53	45	39		51	44	39		49
7	64	50	41	35	62	49	41	35	48	40	35		46	40	34		45
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		41
9	56	42	34	28	54	41	34	28	40	33	28		39	33	28		38
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4280	4280	4280
5°	4238	4277	4281
10°	4225	4279	4276
15°	4199	4259	4275
20°	4161	4227	4284
25°	4144	4186	4271
30°	4092	4145	4252
35°	4006	4119	4213
40°	3946	4067	4223
45°	3872	4030	4221
50°	3833	4007	4187
55°	3711	3953	4209
60°	3586	3910	4234
65°	3431	3851	4306
70°	3225	3777	4352
75°	2905	3709	4440
80°	2377	3643	4730
85°	1548	3629	4423

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4964 cd/sqm

TEST NUMBER: P1586425

CATALOG NUMBER: 22CZSP-43HE-L935

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	3.2
10°-20°	370.0	9.2
20°-30°	559.1	13.9
30°-40°	674.4	16.8
40°-50°	705.0	17.5
50°-60°	650.1	16.1
60°-70°	515.1	12.8
70°-80°	322.1	8.0
80°-90°	101.0	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°	1058.3	26.3
0°-40°	1732.7	43.0
0°-60°	3087.8	76.7
0°-90°	4026.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4026.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1367	1367	1367	1367	1367	
5°	1348	1355	1361	1366	1362	128
15°	1295	1302	1314	1322	1319	366
25°	1199	1196	1212	1229	1236	550
35°	1048	1060	1078	1096	1102	657
45°	874	887	910	933	953	677
55°	680	696	724	764	771	609
65°	463	483	520	560	581	459
75°	240	260	307	350	367	253
85°	43	62	101	118	123	56
90°	0	0	0	0	0	

TEST NUMBER: P1586425

CATALOG NUMBER: 22CZSP-43HE-L935

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1366.9	1366.9	1366.9	1366.9	1366.9
2.5°	1354.6	1360.7	1365.6	1364.4	1370.6
5°	1348.4	1354.6	1360.7	1365.6	1361.9
7.5°	1341.0	1347.2	1354.6	1361.9	1354.6
10°	1328.7	1332.4	1345.9	1347.2	1344.7
12.5°	1317.6	1321.3	1331.2	1339.8	1342.2
15°	1295.4	1301.6	1313.9	1322.5	1318.8
17.5°	1273.3	1281.9	1293.0	1301.6	1301.6
20°	1248.6	1254.8	1268.4	1274.5	1285.6
22.5°	1220.3	1227.7	1238.8	1256.0	1262.2
25°	1199.4	1195.7	1211.7	1228.9	1236.3
27.5°	1157.5	1162.5	1184.6	1200.6	1206.8
30°	1131.7	1134.1	1146.4	1168.6	1176.0
32.5°	1086.1	1093.5	1115.7	1131.7	1145.2
35°	1047.9	1060.2	1077.5	1096.0	1102.1
37.5°	1014.7	1017.1	1036.8	1061.5	1066.4
40°	965.4	980.2	995.0	1025.8	1033.2
42.5°	927.3	934.6	955.6	985.1	996.2
45°	874.3	886.6	910.0	933.4	953.1
47.5°	827.5	839.8	870.6	900.2	903.9
50°	786.9	791.8	822.6	855.8	859.5
52.5°	731.5	743.8	773.3	810.3	822.6
55°	679.7	695.7	724.1	763.5	770.9
57.5°	634.2	641.6	674.8	714.2	729.0
60°	572.6	593.5	624.3	662.5	676.0
62.5°	519.7	539.4	572.6	608.3	623.1
65°	463.0	482.7	519.7	560.3	581.2
67.5°	408.8	424.8	469.2	511.0	520.9
70°	352.2	370.7	412.5	455.6	475.3
72.5°	293.1	314.0	360.8	401.4	422.4
75°	240.1	259.8	306.6	349.7	367.0
77.5°	184.7	206.9	252.4	295.5	315.2
80°	131.8	153.9	202.0	245.1	262.3
82.5°	85.0	108.4	153.9	192.1	206.9
85°	43.1	61.6	101.0	118.2	123.1
87.5°	13.5	22.2	34.5	39.4	39.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1586425

CATALOG NUMBER: 22CZSP-43HE-L935

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	16.58	18.24	16.94	18.56	18.87	17.37	19.03	17.73	19.35	19.66
	3H	18.36	19.87	18.73	20.20	20.56	19.51	21.02	19.89	21.35	21.71
	4H	19.00	20.42	19.39	20.77	21.14	20.43	21.86	20.83	22.21	22.58
	6H	19.42	20.75	19.83	21.11	21.50	21.26	22.58	21.67	22.95	23.34
	8H	19.53	20.80	19.96	21.19	21.59	21.60	22.87	22.03	23.26	23.66
	12H	19.59	20.81	20.02	21.19	21.61	21.85	23.06	22.28	23.45	23.87
4H	2H	17.35	18.78	17.75	19.12	19.50	17.96	19.39	18.36	19.74	20.11
	3H	19.36	20.56	19.77	20.96	21.36	20.35	21.55	20.76	21.95	22.35
	4H	20.12	21.21	20.55	21.62	22.06	21.44	22.53	21.87	22.94	23.37
	6H	20.67	21.63	21.12	22.07	22.52	22.43	23.39	22.89	23.83	24.28
	8H	20.82	21.72	21.28	22.16	22.63	22.86	23.76	23.32	24.20	24.66
	12H	20.91	21.72	21.39	22.19	22.66	23.17	23.98	23.65	24.46	24.93
8H	4H	20.60	21.50	21.06	21.94	22.40	21.74	22.64	22.20	23.08	23.55
	6H	21.29	22.04	21.78	22.53	23.00	22.91	23.66	23.40	24.14	24.62
	8H	21.52	22.19	22.02	22.70	23.18	23.45	24.13	23.96	24.63	25.11
	12H	21.67	22.26	22.17	22.75	23.31	23.88	24.48	24.39	24.97	25.53
12H	4H	20.70	21.51	21.18	21.98	22.45	21.77	22.58	22.25	23.05	23.52
	6H	21.44	22.11	21.94	22.62	23.10	22.96	23.64	23.47	24.14	24.63
	8H	21.74	22.34	22.25	22.83	23.39	23.58	24.18	24.09	24.67	25.23