

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: P1586406

Luminaire Tested: 22CZSP-42-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586406
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-42-L940-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

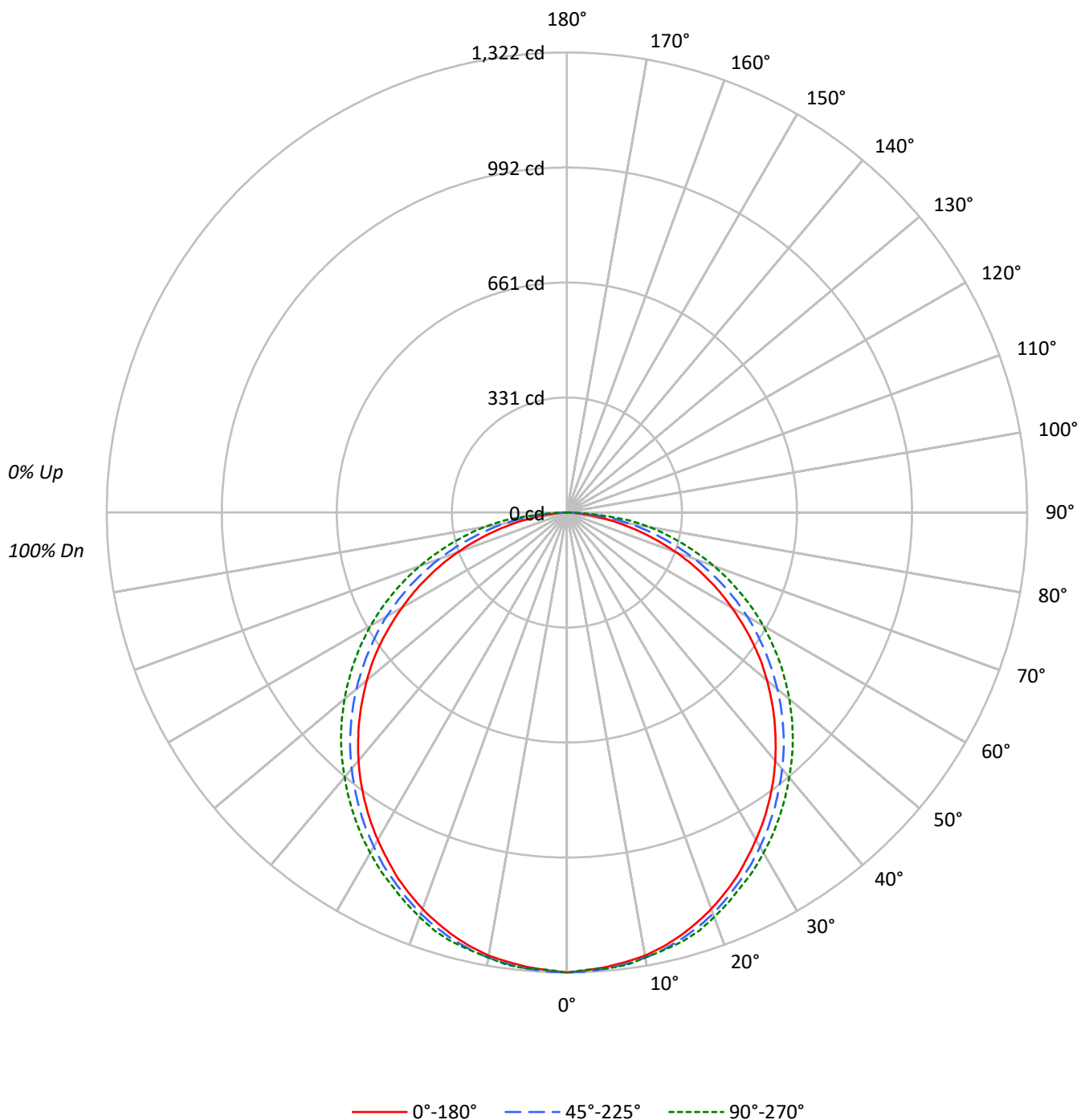
Lumens per Lamp: N/A
Luminaire Lumens: 3859.0 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.9
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

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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	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°	4139	4139	4139
5°	4120	4136	4133
10°	4111	4130	4127
15°	4082	4115	4139
20°	4041	4089	4122
25°	3991	4046	4096
30°	3928	4011	4084
35°	3871	3972	4072
40°	3807	3932	4060
45°	3735	3892	4065
50°	3655	3845	4063
55°	3559	3791	4068
60°	3426	3749	4078
65°	3269	3677	4091
70°	3047	3574	4109
75°	2715	3432	4149
80°	2245	3268	4351
85°	1459	2950	3801

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4489 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	3.2
10°-20°	357.9	9.3
20°-30°	539.8	14.0
30°-40°	650.2	16.8
40°-50°	679.1	17.6
50°-60°	623.6	16.2
60°-70°	491.2	12.7
70°-80°	301.3	7.8
80°-90°	90.7	2.3
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°	1022.8	26.5
0°-40°	1673.0	43.4
0°-60°	2975.7	77.1
0°-90°	3859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3859.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1322	1322	1322	1322	1322	
5°	1311	1312	1316	1320	1315	125
15°	1259	1262	1269	1277	1277	355
25°	1155	1158	1171	1186	1186	532
35°	1013	1018	1039	1060	1065	633
45°	843	853	879	909	918	650
55°	652	664	694	733	745	582
65°	441	456	496	538	552	436
75°	224	242	284	328	343	238
85°	41	56	82	104	106	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1321.8	1321.8	1321.8	1321.8	1321.8
2.5°	1316.7	1319.3	1320.1	1321.0	1315.0
5°	1310.8	1312.5	1315.9	1320.1	1315.0
7.5°	1302.3	1304.0	1308.3	1314.2	1311.6
10°	1293.0	1293.9	1298.9	1303.2	1298.1
12.5°	1277.8	1280.3	1286.2	1289.6	1287.9
15°	1259.1	1261.7	1269.3	1276.9	1276.9
17.5°	1237.1	1240.5	1249.8	1260.0	1260.8
20°	1212.6	1215.1	1227.0	1237.1	1237.1
22.5°	1184.6	1188.0	1199.9	1210.9	1212.6
25°	1155.0	1157.5	1171.1	1185.5	1185.5
27.5°	1120.3	1125.4	1142.3	1156.7	1160.1
30°	1086.4	1090.6	1109.3	1127.1	1129.6
32.5°	1050.8	1055.9	1075.4	1094.9	1099.1
35°	1012.7	1017.8	1039.0	1060.2	1065.2
37.5°	972.9	978.9	1000.9	1025.4	1030.5
40°	931.4	938.2	961.9	988.2	993.3
42.5°	887.4	896.7	922.1	949.2	956.9
45°	843.4	852.7	878.9	909.4	917.9
47.5°	796.8	807.8	834.9	867.1	876.4
50°	750.2	761.2	789.2	823.9	834.1
52.5°	702.8	713.8	742.6	779.0	790.0
55°	652.0	663.9	694.4	733.3	745.2
57.5°	599.5	614.8	646.9	686.7	698.6
60°	547.0	562.3	598.7	637.6	651.2
62.5°	495.4	509.8	547.0	588.5	602.9
65°	441.2	456.4	496.2	537.7	552.1
67.5°	387.8	403.1	442.9	486.0	501.3
70°	332.8	349.7	390.4	433.5	448.8
72.5°	277.7	295.5	337.0	381.0	395.4
75°	224.4	242.2	283.7	328.5	342.9
77.5°	171.9	191.4	232.0	277.7	291.3
80°	124.5	143.1	181.2	226.1	241.3
82.5°	79.6	95.7	133.8	176.1	187.1
85°	40.6	55.9	82.1	104.2	105.8
87.5°	12.7	17.8	27.1	40.6	41.5
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	16.41	18.08	16.78	18.39	18.70	17.24	18.91	17.61	19.22	19.53
	3H	18.17	19.68	18.55	20.00	20.36	19.36	20.87	19.74	21.19	21.55
	4H	18.79	20.21	19.19	20.56	20.93	20.25	21.67	20.65	22.02	22.39
	6H	19.20	20.52	19.61	20.88	21.27	21.03	22.35	21.44	22.71	23.10
	8H	19.31	20.57	19.73	20.96	21.36	21.35	22.61	21.77	23.00	23.40
	12H	19.36	20.57	19.79	20.95	21.38	21.56	22.77	21.99	23.15	23.58
4H	2H	17.19	18.61	17.58	18.95	19.33	17.83	19.25	18.23	19.60	19.98
	3H	19.16	20.36	19.57	20.76	21.16	20.19	21.38	20.60	21.78	22.18
	4H	19.90	20.99	20.33	21.40	21.83	21.24	22.32	21.67	22.74	23.17
	6H	20.43	21.38	20.88	21.82	22.27	22.19	23.14	22.64	23.58	24.04
	8H	20.57	21.47	21.03	21.91	22.37	22.59	23.48	23.05	23.92	24.39
	12H	20.66	21.46	21.14	21.94	22.40	22.86	23.67	23.34	24.14	24.61
8H	4H	20.36	21.25	20.82	21.69	22.16	21.53	22.42	21.99	22.86	23.32
	6H	21.02	21.76	21.51	22.25	22.72	22.64	23.38	23.13	23.87	24.34
	8H	21.23	21.90	21.74	22.40	22.89	23.15	23.82	23.66	24.32	24.81
	12H	21.37	21.96	21.87	22.45	23.01	23.54	24.13	24.04	24.62	25.18
12H	4H	20.45	21.25	20.93	21.73	22.19	21.55	22.36	22.03	22.83	23.30
	6H	21.15	21.82	21.66	22.33	22.81	22.69	23.36	23.19	23.86	24.35
	8H	21.43	22.02	21.93	22.51	23.07	23.26	23.86	23.77	24.35	24.90