

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: P1586404

Luminaire Tested: 22CZSP-42-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586404
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-L935-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

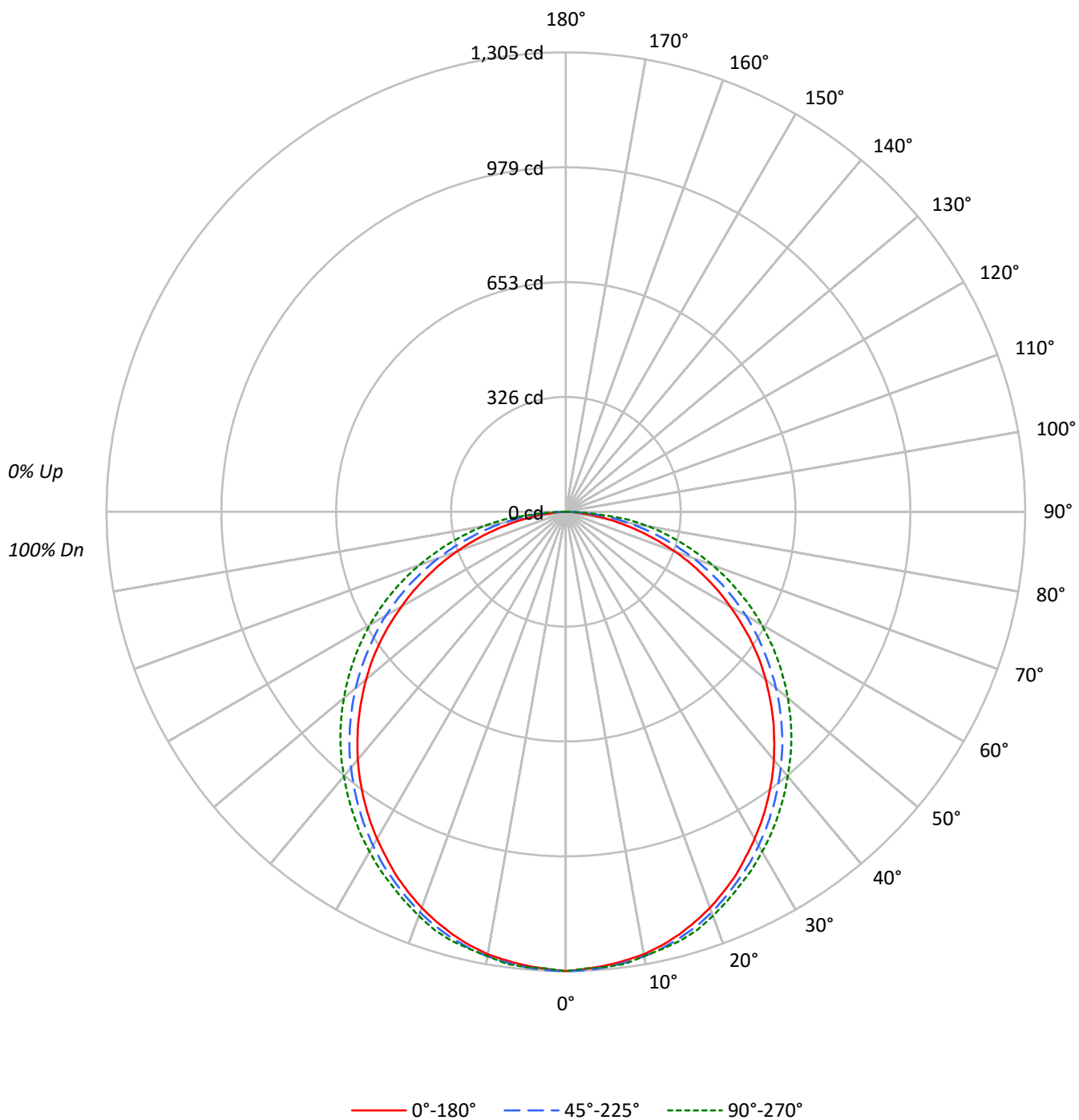
Lumens per Lamp: N/A
Luminaire Lumens: 3810.0 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	4086	4086	4086
5°	4068	4084	4081
10°	4059	4078	4075
15°	4030	4063	4087
20°	3989	4037	4070
25°	3940	3995	4044
30°	3878	3960	4033
35°	3822	3921	4020
40°	3759	3882	4009
45°	3687	3843	4013
50°	3608	3796	4012
55°	3514	3742	4016
60°	3382	3702	4026
65°	3228	3630	4039
70°	3008	3528	4057
75°	2680	3389	4097
80°	2216	3226	4297
85°	1441	2914	3754

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4433 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	3.2
10°-20°	353.4	9.3
20°-30°	533.0	14.0
30°-40°	642.0	16.8
40°-50°	670.5	17.6
50°-60°	615.7	16.2
60°-70°	485.0	12.7
70°-80°	297.5	7.8
80°-90°	89.5	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°	1009.8	26.5
0°-40°	1651.8	43.4
0°-60°	2938.0	77.1
0°-90°	3810.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3810.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1305	1305	1305	1305	1305	
5°	1294	1296	1299	1303	1298	123
15°	1243	1246	1253	1261	1261	351
25°	1140	1143	1156	1170	1170	525
35°	1000	1005	1026	1047	1052	625
45°	833	842	868	898	906	642
55°	644	655	686	724	736	575
65°	436	451	490	531	545	431
75°	222	239	280	324	339	235
85°	40	55	81	103	104	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1305.0	1305.0	1305.0	1305.0	1305.0
2.5°	1300.0	1302.5	1303.4	1304.2	1298.3
5°	1294.2	1295.8	1299.2	1303.4	1298.3
7.5°	1285.8	1287.5	1291.7	1297.5	1295.0
10°	1276.6	1277.4	1282.5	1286.6	1281.6
12.5°	1261.6	1264.1	1269.9	1273.3	1271.6
15°	1243.2	1245.7	1253.2	1260.7	1260.7
17.5°	1221.4	1224.8	1234.0	1244.0	1244.8
20°	1197.2	1199.7	1211.4	1221.4	1221.4
22.5°	1169.6	1172.9	1184.6	1195.5	1197.2
25°	1140.3	1142.8	1156.2	1170.4	1170.4
27.5°	1106.1	1111.1	1127.8	1142.0	1145.3
30°	1072.6	1076.8	1095.2	1112.7	1115.3
32.5°	1037.5	1042.5	1061.7	1081.0	1085.2
35°	999.9	1004.9	1025.8	1046.7	1051.7
37.5°	960.6	966.4	988.2	1012.4	1017.4
40°	919.6	926.3	949.7	975.6	980.7
42.5°	876.1	885.3	910.4	937.2	944.7
45°	832.7	841.9	867.8	897.9	906.2
47.5°	786.7	797.6	824.3	856.1	865.3
50°	740.7	751.6	779.2	813.4	823.5
52.5°	693.9	704.8	733.2	769.1	780.0
55°	643.7	655.4	685.5	724.0	735.7
57.5°	591.9	607.0	638.7	678.0	689.7
60°	540.1	555.1	591.1	629.5	642.9
62.5°	489.1	503.3	540.1	581.0	595.2
65°	435.6	450.6	489.9	530.9	545.1
67.5°	382.9	397.9	437.2	479.9	494.9
70°	328.6	345.3	385.4	428.0	443.1
72.5°	274.2	291.8	332.7	376.2	390.4
75°	221.5	239.1	280.1	324.4	338.6
77.5°	169.7	188.9	229.1	274.2	287.6
80°	122.9	141.3	178.9	223.2	238.3
82.5°	78.6	94.5	132.1	173.9	184.8
85°	40.1	55.2	81.1	102.8	104.5
87.5°	12.5	17.6	26.8	40.1	41.0
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	16.37	18.03	16.73	18.35	18.66	17.20	18.86	17.56	19.18	19.49
	3H	18.12	19.63	18.50	19.96	20.32	19.32	20.82	19.69	21.15	21.51
	4H	18.74	20.17	19.14	20.51	20.89	20.20	21.63	20.60	21.97	22.35
	6H	19.15	20.47	19.56	20.84	21.23	20.99	22.31	21.40	22.67	23.06
	8H	19.26	20.52	19.69	20.91	21.31	21.31	22.57	21.73	22.96	23.35
	12H	19.31	20.52	19.74	20.91	21.33	21.52	22.73	21.95	23.11	23.54
4H	2H	17.14	18.56	17.54	18.91	19.29	17.79	19.21	18.18	19.56	19.93
	3H	19.12	20.32	19.53	20.71	21.11	20.14	21.34	20.55	21.74	22.14
	4H	19.85	20.94	20.29	21.35	21.79	21.19	22.28	21.62	22.69	23.13
	6H	20.38	21.34	20.84	21.78	22.23	22.15	23.10	22.60	23.54	23.99
	8H	20.53	21.42	20.99	21.86	22.33	22.54	23.44	23.00	23.88	24.34
	12H	20.61	21.42	21.09	21.89	22.36	22.82	23.62	23.30	24.10	24.57
8H	4H	20.31	21.21	20.77	21.65	22.11	21.48	22.38	21.94	22.82	23.28
	6H	20.97	21.72	21.47	22.21	22.68	22.59	23.34	23.09	23.83	24.30
	8H	21.19	21.85	21.69	22.36	22.84	23.11	23.78	23.61	24.28	24.76
	12H	21.32	21.92	21.83	22.41	22.96	23.49	24.08	24.00	24.57	25.13
12H	4H	20.40	21.21	20.88	21.68	22.15	21.51	22.31	21.99	22.79	23.25
	6H	21.11	21.78	21.61	22.28	22.77	22.64	23.31	23.15	23.82	24.30
	8H	21.39	21.98	21.89	22.47	23.03	23.22	23.81	23.73	24.30	24.86