

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: P1586370

Luminaire Tested: 22CZSP-35-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586370
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-35-L950-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 3500 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

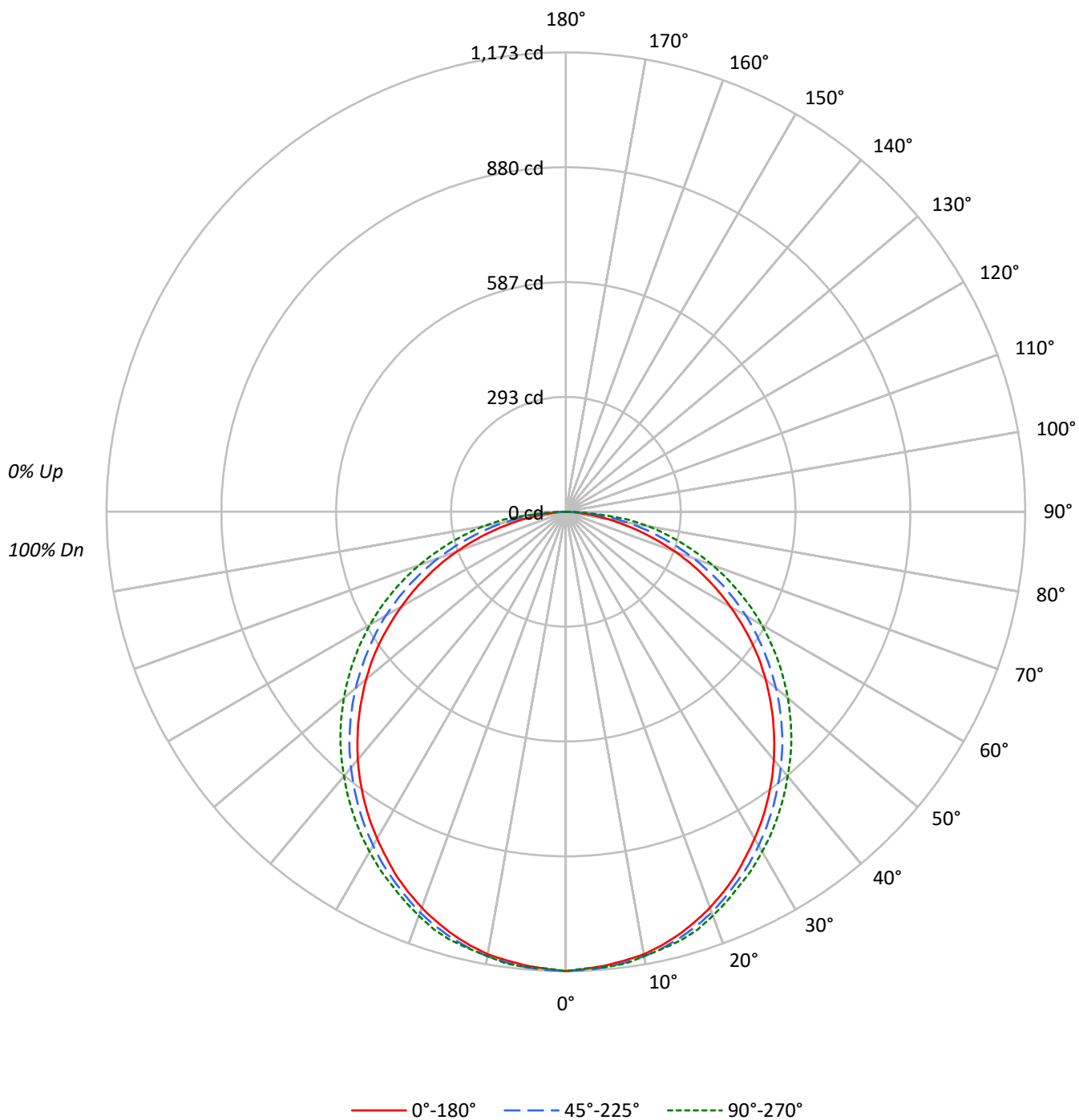
Lumens per Lamp: N/A
Luminaire Lumens: 3424.0 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.7
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°	3672	3672	3672
5°	3656	3670	3668
10°	3648	3665	3662
15°	3622	3651	3673
20°	3585	3628	3658
25°	3541	3590	3634
30°	3485	3559	3624
35°	3435	3524	3613
40°	3378	3489	3602
45°	3314	3454	3606
50°	3243	3411	3605
55°	3158	3363	3610
60°	3040	3327	3619
65°	2900	3262	3630
70°	2704	3171	3646
75°	2409	3045	3682
80°	1991	2900	3861
85°	1297	2619	3374

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3982 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.9	3.2
10°-20°	317.6	9.3
20°-30°	479.0	14.0
30°-40°	576.9	16.8
40°-50°	602.5	17.6
50°-60°	553.3	16.2
60°-70°	435.8	12.7
70°-80°	267.4	7.8
80°-90°	80.5	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°	907.5	26.5
0°-40°	1484.5	43.4
0°-60°	2640.3	77.1
0°-90°	3424.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3424.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1173	1173	1173	1173	1173	
5°	1163	1164	1168	1171	1167	111
15°	1117	1120	1126	1133	1133	315
25°	1025	1027	1039	1052	1052	472
35°	899	903	922	941	945	562
45°	748	757	780	807	814	577
55°	578	589	616	651	661	516
65°	391	405	440	477	490	387
75°	199	215	252	292	304	211
85°	36	50	73	92	94	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1172.8	1172.8	1172.8	1172.8	1172.8
2.5°	1168.3	1170.6	1171.3	1172.1	1166.8
5°	1163.0	1164.5	1167.6	1171.3	1166.8
7.5°	1155.5	1157.0	1160.8	1166.0	1163.8
10°	1147.3	1148.0	1152.5	1156.3	1151.8
12.5°	1133.7	1136.0	1141.3	1144.3	1142.8
15°	1117.2	1119.5	1126.2	1133.0	1133.0
17.5°	1097.7	1100.7	1108.9	1118.0	1118.7
20°	1075.9	1078.1	1088.7	1097.7	1097.7
22.5°	1051.1	1054.1	1064.6	1074.4	1075.9
25°	1024.8	1027.1	1039.1	1051.8	1051.8
27.5°	994.0	998.5	1013.5	1026.3	1029.3
30°	963.9	967.7	984.2	1000.0	1002.3
32.5°	932.4	936.9	954.2	971.5	975.2
35°	898.6	903.1	921.9	940.7	945.2
37.5°	863.3	868.5	888.1	909.8	914.4
40°	826.5	832.5	853.5	876.8	881.3
42.5°	787.4	795.6	818.2	842.2	849.0
45°	748.3	756.6	779.9	806.9	814.4
47.5°	707.0	716.8	740.8	769.4	777.6
50°	665.7	675.4	700.2	731.0	740.1
52.5°	623.6	633.4	658.9	691.2	701.0
55°	578.5	589.0	616.1	650.6	661.2
57.5°	531.9	545.5	574.0	609.3	619.8
60°	485.4	498.9	531.2	565.7	577.8
62.5°	439.5	452.3	485.4	522.2	534.9
65°	391.4	405.0	440.3	477.1	489.9
67.5°	344.1	357.6	392.9	431.3	444.8
70°	295.3	310.3	346.4	384.7	398.2
72.5°	246.4	262.2	299.0	338.1	350.9
75°	199.1	214.9	251.7	291.5	304.3
77.5°	152.5	169.8	205.9	246.4	258.5
80°	110.4	127.0	160.8	200.6	214.1
82.5°	70.6	84.9	118.7	156.3	166.0
85°	36.1	49.6	72.9	92.4	93.9
87.5°	11.3	15.8	24.0	36.1	36.8
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	16.00	17.66	16.36	17.97	18.29	16.83	18.49	17.19	18.80	19.12
	3H	17.75	19.26	18.13	19.59	19.95	18.94	20.45	19.32	20.78	21.14
	4H	18.37	19.79	18.77	20.14	20.52	19.83	21.26	20.23	21.60	21.98
	6H	18.78	20.10	19.19	20.47	20.86	20.61	21.94	21.02	22.30	22.69
	8H	18.89	20.15	19.31	20.54	20.94	20.93	22.20	21.36	22.59	22.98
	12H	18.94	20.15	19.37	20.53	20.96	21.15	22.36	21.57	22.74	23.17
4H	2H	16.77	18.19	17.17	18.54	18.91	17.42	18.84	17.81	19.19	19.56
	3H	18.75	19.94	19.16	20.34	20.74	19.77	20.97	20.18	21.37	21.76
	4H	19.48	20.57	19.91	20.98	21.42	20.82	21.91	21.25	22.32	22.76
	6H	20.01	20.96	20.46	21.40	21.86	21.78	22.73	22.23	23.17	23.62
	8H	20.16	21.05	20.62	21.49	21.96	22.17	23.06	22.63	23.51	23.97
	12H	20.24	21.05	20.72	21.52	21.99	22.45	23.25	22.93	23.73	24.20
8H	4H	19.94	20.83	20.40	21.28	21.74	21.11	22.00	21.57	22.45	22.91
	6H	20.60	21.35	21.10	21.83	22.31	22.22	22.97	22.72	23.45	23.93
	8H	20.81	21.48	21.32	21.99	22.47	22.74	23.40	23.24	23.91	24.39
	12H	20.95	21.55	21.46	22.04	22.59	23.12	23.71	23.63	24.20	24.76
12H	4H	20.03	20.84	20.51	21.31	21.78	21.14	21.94	21.62	22.41	22.88
	6H	20.74	21.41	21.24	21.91	22.39	22.27	22.94	22.78	23.45	23.93
	8H	21.01	21.61	21.52	22.10	22.65	22.85	23.44	23.35	23.93	24.49