

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: P1587642

Luminaire Tested: 22CZSP-SB-35-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-35-L930-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 3500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

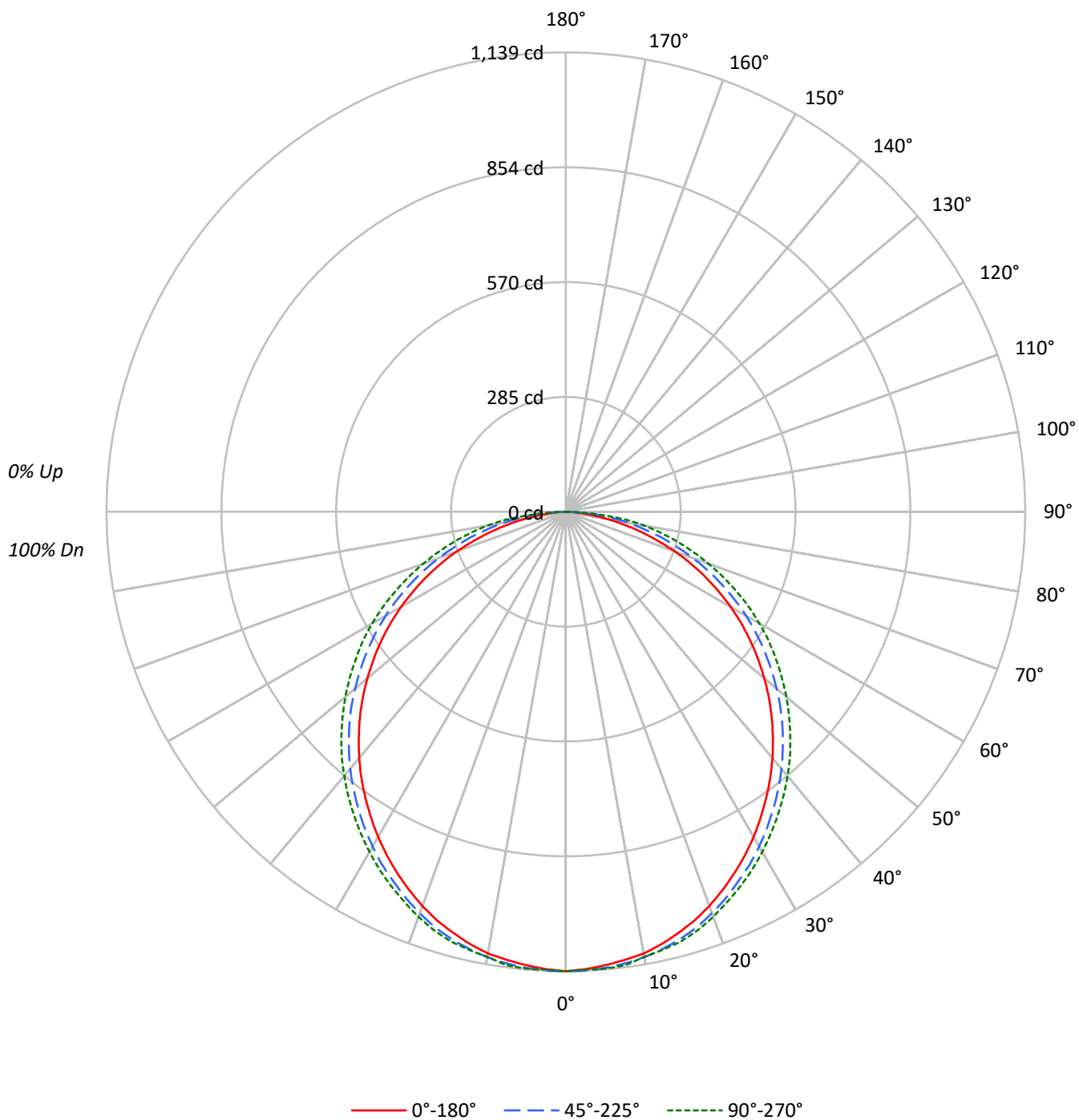
Lumens per Lamp: N/A
Luminaire Lumens: 3314.0 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	94	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	66	61		69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53		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	45	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3567	3567	3567
5°	3547	3568	3574
10°	3536	3566	3563
15°	3504	3555	3575
20°	3466	3530	3561
25°	3416	3495	3540
30°	3367	3465	3521
35°	3311	3431	3505
40°	3258	3401	3494
45°	3198	3366	3486
50°	3129	3324	3476
55°	3051	3281	3472
60°	2955	3233	3473
65°	2821	3164	3454
70°	2637	3068	3446
75°	2337	2950	3459
80°	1902	2802	3561
85°	1229	2587	3072

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3608 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.8	3.3
10°-20°	308.7	9.3
20°-30°	465.5	14.0
30°-40°	560.1	16.9
40°-50°	584.2	17.6
50°-60°	535.5	16.2
60°-70°	420.5	12.7
70°-80°	255.9	7.7
80°-90°	75.7	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°	882.0	26.6
0°-40°	1442.1	43.5
0°-60°	2561.8	77.3
0°-90°	3314.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3314.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1139	1139	1139	1139	1139	
5°	1128	1136	1135	1134	1137	107
15°	1081	1092	1096	1098	1103	305
25°	989	1002	1012	1018	1024	456
35°	866	880	898	910	917	542
45°	722	737	760	778	787	557
55°	559	573	601	625	636	499
65°	381	395	427	456	466	377
75°	193	211	244	273	286	205
85°	34	48	72	81	86	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1139.2	1139.2	1139.2	1139.2	1139.2
2.5°	1135.0	1140.7	1139.2	1134.2	1136.4
5°	1128.5	1135.7	1135.0	1133.5	1137.1
7.5°	1120.7	1128.5	1129.3	1129.3	1133.5
10°	1112.1	1120.0	1121.4	1119.3	1120.7
12.5°	1097.9	1107.2	1110.0	1110.0	1112.1
15°	1080.8	1091.5	1096.5	1097.9	1102.9
17.5°	1062.2	1073.7	1080.1	1083.6	1087.9
20°	1040.1	1052.3	1059.4	1063.7	1068.7
22.5°	1015.2	1028.7	1036.6	1040.9	1046.6
25°	988.8	1002.4	1011.6	1018.0	1024.5
27.5°	961.0	973.8	986.7	994.5	1000.2
30°	931.1	944.6	958.2	968.1	973.8
32.5°	899.0	913.2	928.9	939.6	946.0
35°	866.2	879.7	897.6	910.4	916.8
37.5°	832.7	846.9	865.5	879.0	886.9
40°	797.0	812.0	832.0	846.9	854.8
42.5°	760.0	774.2	796.3	813.4	822.7
45°	722.2	737.2	760.0	777.8	787.1
47.5°	683.0	697.2	722.2	742.9	750.7
50°	642.3	655.9	682.3	704.4	713.6
52.5°	601.0	615.2	641.6	665.1	675.1
55°	558.9	573.2	601.0	625.2	635.9
57.5°	516.2	530.4	558.9	583.9	596.7
60°	471.9	486.2	516.2	541.8	554.6
62.5°	426.3	441.3	471.9	498.3	511.9
65°	380.7	395.0	427.0	455.6	466.2
67.5°	335.1	349.3	380.7	409.2	422.0
70°	288.0	304.4	335.1	365.0	376.4
72.5°	238.8	257.4	288.0	319.4	330.8
75°	193.2	211.0	243.8	273.0	285.9
77.5°	148.3	167.5	198.2	228.1	241.0
80°	105.5	124.0	155.4	183.9	197.5
82.5°	67.0	83.4	114.8	140.4	150.4
85°	34.2	48.5	72.0	80.6	85.5
87.5°	10.0	17.1	25.7	32.1	35.6
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	15.92	17.58	16.28	17.89	18.21	16.65	18.31	17.02	18.63	18.94
	3H	17.69	19.19	18.06	19.52	19.88	18.73	20.24	19.11	20.56	20.92
	4H	18.31	19.73	18.70	20.07	20.45	19.60	21.02	20.00	21.36	21.74
	6H	18.71	20.03	19.12	20.40	20.79	20.34	21.66	20.75	22.02	22.41
	8H	18.82	20.08	19.24	20.47	20.86	20.64	21.90	21.06	22.29	22.68
	12H	18.87	20.07	19.30	20.46	20.88	20.83	22.04	21.26	22.42	22.85
4H	2H	16.69	18.11	17.08	18.45	18.83	17.26	18.68	17.66	19.02	19.40
	3H	18.68	19.87	19.09	20.27	20.67	19.57	20.77	19.98	21.16	21.56
	4H	19.42	20.50	19.85	20.92	21.35	20.59	21.67	21.02	22.09	22.52
	6H	19.95	20.90	20.40	21.34	21.79	21.49	22.44	21.95	22.88	23.34
	8H	20.09	20.98	20.55	21.42	21.89	21.86	22.75	22.32	23.19	23.66
	12H	20.17	20.97	20.65	21.45	21.91	22.12	22.92	22.59	23.39	23.86
8H	4H	19.87	20.76	20.32	21.20	21.66	20.89	21.78	21.35	22.22	22.68
	6H	20.53	21.27	21.02	21.76	22.23	21.94	22.69	22.44	23.17	23.65
	8H	20.74	21.40	21.25	21.91	22.39	22.42	23.08	22.92	23.59	24.07
	12H	20.87	21.46	21.38	21.95	22.51	22.77	23.36	23.27	23.85	24.41
12H	4H	19.95	20.75	20.43	21.22	21.69	20.91	21.71	21.39	22.19	22.66
	6H	20.65	21.32	21.16	21.82	22.31	22.00	22.66	22.50	23.17	23.65
	8H	20.93	21.52	21.43	22.01	22.57	22.53	23.12	23.04	23.61	24.17