

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: P1587684

Luminaire Tested: 22CZSP-SB-42-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587684
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-42-L935-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

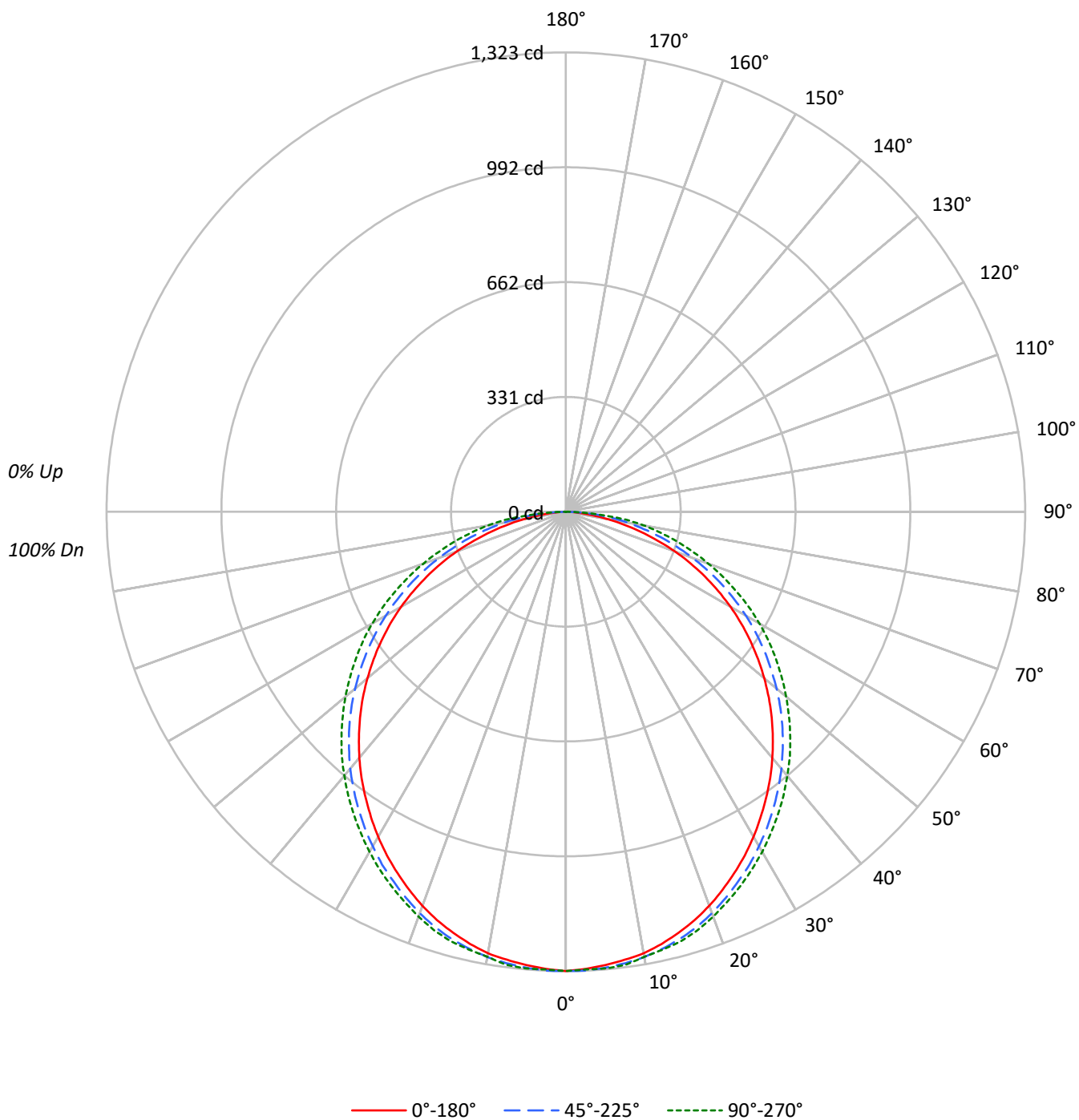
Lumens per Lamp: N/A
Luminaire Lumens: 3848.0 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	4142	4142	4142
5°	4119	4142	4150
10°	4106	4140	4138
15°	4068	4127	4151
20°	4024	4099	4135
25°	3967	4058	4110
30°	3909	4023	4089
35°	3845	3984	4069
40°	3783	3949	4057
45°	3714	3908	4047
50°	3633	3859	4037
55°	3543	3810	4031
60°	3432	3753	4033
65°	3275	3674	4011
70°	3062	3562	4002
75°	2714	3425	4015
80°	2209	3255	4135
85°	1426	3004	3568

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4191 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.2	3.3
10°-20°	358.5	9.3
20°-30°	540.5	14.0
30°-40°	650.3	16.9
40°-50°	678.4	17.6
50°-60°	621.8	16.2
60°-70°	488.3	12.7
70°-80°	297.2	7.7
80°-90°	87.9	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°	1024.2	26.6
0°-40°	1674.5	43.5
0°-60°	2974.7	77.3
0°-90°	3848.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3848.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1323	1323	1323	1323	1323	
5°	1310	1319	1318	1316	1320	124
15°	1255	1267	1273	1275	1281	354
25°	1148	1164	1175	1182	1190	529
35°	1006	1022	1042	1057	1064	629
45°	839	856	882	903	914	647
55°	649	666	698	726	738	580
65°	442	459	496	529	541	437
75°	224	245	283	317	332	238
85°	40	56	84	94	99	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1322.8	1322.8	1322.8	1322.8	1322.8
2.5°	1317.8	1324.5	1322.8	1317.0	1319.5
5°	1310.4	1318.7	1317.8	1316.2	1320.3
7.5°	1301.3	1310.4	1311.2	1311.2	1316.2
10°	1291.4	1300.5	1302.1	1299.6	1301.3
12.5°	1274.8	1285.6	1288.9	1288.9	1291.4
15°	1254.9	1267.3	1273.1	1274.8	1280.6
17.5°	1233.4	1246.7	1254.1	1258.2	1263.2
20°	1207.7	1221.8	1230.1	1235.1	1240.9
22.5°	1178.8	1194.5	1203.6	1208.6	1215.2
25°	1148.1	1163.9	1174.6	1182.1	1189.5
27.5°	1115.9	1130.8	1145.7	1154.8	1161.4
30°	1081.1	1096.8	1112.6	1124.1	1130.8
32.5°	1043.8	1060.4	1078.6	1091.0	1098.5
35°	1005.8	1021.5	1042.2	1057.1	1064.5
37.5°	966.9	983.4	1004.9	1020.7	1029.8
40°	925.5	942.9	966.0	983.4	992.5
42.5°	882.4	899.0	924.6	944.5	955.3
45°	838.6	855.9	882.4	903.1	913.9
47.5°	793.0	809.6	838.6	862.6	871.7
50°	745.8	761.6	792.2	817.9	828.6
52.5°	697.8	714.4	745.0	772.3	783.9
55°	649.0	665.5	697.8	726.0	738.4
57.5°	599.3	615.9	649.0	678.0	692.9
60°	548.0	564.6	599.3	629.1	644.0
62.5°	495.0	512.4	548.0	578.6	594.4
65°	442.0	458.6	495.8	529.0	541.4
67.5°	389.1	405.6	442.0	475.2	490.1
70°	334.4	353.5	389.1	423.8	437.1
72.5°	277.3	298.8	334.4	370.9	384.1
75°	224.3	245.0	283.1	317.0	331.9
77.5°	172.2	194.5	230.1	264.9	279.8
80°	122.5	144.0	180.5	213.6	229.3
82.5°	77.8	96.9	133.3	163.1	174.7
85°	39.7	56.3	83.6	93.5	99.3
87.5°	11.6	19.9	29.8	37.3	41.4
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	16.44	18.10	16.80	18.41	18.73	17.17	18.83	17.54	19.15	19.46
	3H	18.21	19.71	18.58	20.04	20.40	19.25	20.76	19.63	21.08	21.44
	4H	18.83	20.24	19.22	20.59	20.97	20.12	21.54	20.51	21.88	22.26
	6H	19.23	20.55	19.64	20.92	21.31	20.86	22.18	21.27	22.54	22.93
	8H	19.34	20.60	19.76	20.99	21.38	21.16	22.42	21.58	22.81	23.20
	12H	19.39	20.59	19.81	20.97	21.40	21.35	22.56	21.78	22.94	23.37
4H	2H	17.21	18.63	17.60	18.97	19.35	17.78	19.20	18.17	19.54	19.92
	3H	19.20	20.39	19.61	20.79	21.19	20.09	21.29	20.50	21.68	22.08
	4H	19.94	21.02	20.37	21.44	21.87	21.11	22.19	21.54	22.60	23.04
	6H	20.47	21.42	20.92	21.86	22.31	22.01	22.96	22.47	23.40	23.86
	8H	20.61	21.50	21.07	21.94	22.40	22.38	23.27	22.84	23.71	24.18
	12H	20.69	21.49	21.17	21.97	22.43	22.64	23.44	23.11	23.91	24.38
8H	4H	20.38	21.27	20.84	21.72	22.18	21.41	22.30	21.86	22.74	23.20
	6H	21.05	21.79	21.54	22.28	22.75	22.46	23.21	22.96	23.69	24.17
	8H	21.26	21.92	21.76	22.43	22.91	22.94	23.60	23.44	24.11	24.59
	12H	21.39	21.98	21.90	22.47	23.03	23.29	23.88	23.79	24.37	24.93
12H	4H	20.47	21.27	20.94	21.74	22.21	21.43	22.23	21.91	22.71	23.18
	6H	21.17	21.84	21.68	22.34	22.83	22.51	23.18	23.02	23.69	24.17
	8H	21.45	22.04	21.95	22.53	23.09	23.05	23.64	23.56	24.13	24.69

END OF REPORT