

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: P1587680

Luminaire Tested: 22CZSP-SB-42-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587680
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-L850-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

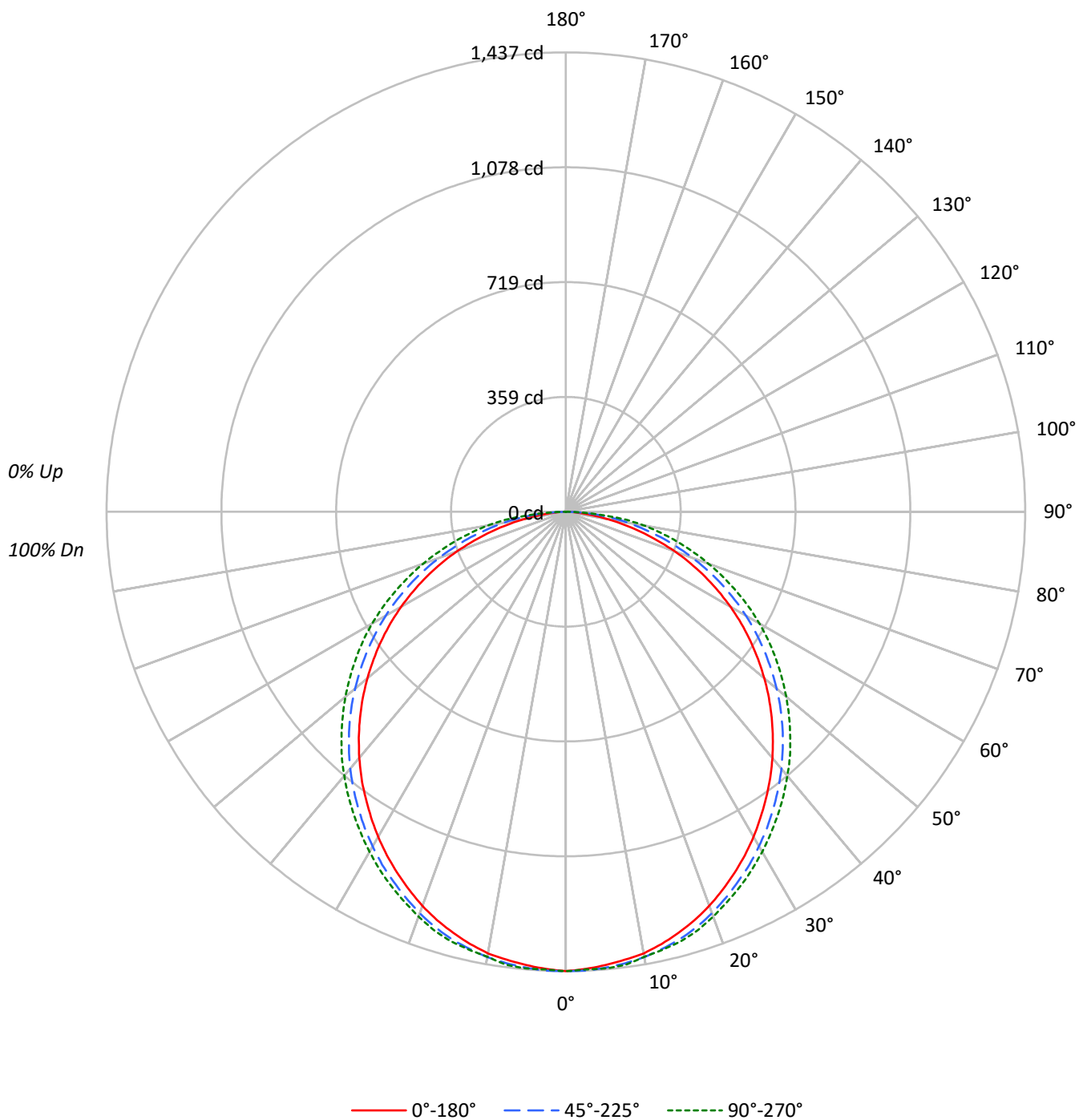
Lumens per Lamp: N/A
Luminaire Lumens: 4180.0 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	4499	4499	4499
5°	4474	4500	4508
10°	4460	4498	4495
15°	4419	4483	4510
20°	4372	4453	4492
25°	4309	4409	4465
30°	4246	4370	4441
35°	4176	4328	4421
40°	4109	4290	4407
45°	4034	4245	4396
50°	3947	4192	4385
55°	3849	4138	4379
60°	3728	4077	4381
65°	3558	3991	4357
70°	3326	3869	4347
75°	2948	3720	4363
80°	2400	3534	4492
85°	1552	3262	3877

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4551 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	3.3
10°-20°	389.4	9.3
20°-30°	587.1	14.0
30°-40°	706.5	16.9
40°-50°	736.9	17.6
50°-60°	675.4	16.2
60°-70°	530.4	12.7
70°-80°	322.8	7.7
80°-90°	95.5	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°	1112.5	26.6
0°-40°	1819.0	43.5
0°-60°	3231.3	77.3
0°-90°	4180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4180.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1437	1437	1437	1437	1437	
5°	1424	1432	1432	1430	1434	135
15°	1363	1377	1383	1385	1391	385
25°	1247	1264	1276	1284	1292	575
35°	1092	1110	1132	1148	1156	684
45°	911	930	959	981	993	702
55°	705	723	758	789	802	630
65°	480	498	539	575	588	475
75°	244	266	308	344	361	258
85°	43	61	91	102	108	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1436.9	1436.9	1436.9	1436.9	1436.9
2.5°	1431.5	1438.7	1436.9	1430.6	1433.3
5°	1423.5	1432.4	1431.5	1429.7	1434.2
7.5°	1413.6	1423.5	1424.4	1424.4	1429.7
10°	1402.8	1412.7	1414.5	1411.8	1413.6
12.5°	1384.8	1396.5	1400.1	1400.1	1402.8
15°	1363.2	1376.7	1383.0	1384.8	1391.1
17.5°	1339.8	1354.2	1362.3	1366.8	1372.2
20°	1311.9	1327.2	1336.2	1341.6	1347.9
22.5°	1280.5	1297.6	1307.5	1312.8	1320.0
25°	1247.2	1264.3	1276.0	1284.1	1292.2
27.5°	1212.1	1228.3	1244.5	1254.4	1261.6
30°	1174.4	1191.5	1208.5	1221.1	1228.3
32.5°	1133.9	1151.9	1171.7	1185.2	1193.3
35°	1092.5	1109.6	1132.1	1148.3	1156.4
37.5°	1050.3	1068.3	1091.6	1108.7	1118.6
40°	1005.3	1024.2	1049.4	1068.3	1078.2
42.5°	958.6	976.5	1004.4	1026.0	1037.7
45°	910.9	929.8	958.6	981.0	992.7
47.5°	861.4	879.4	910.9	937.0	946.9
50°	810.2	827.3	860.5	888.4	900.1
52.5°	758.0	776.0	809.3	839.0	851.6
55°	705.0	723.0	758.0	788.6	802.1
57.5°	651.0	669.0	705.0	736.5	752.6
60°	595.3	613.3	651.0	683.4	699.6
62.5°	537.7	556.6	595.3	628.5	645.6
65°	480.2	498.2	538.6	574.6	588.1
67.5°	422.6	440.6	480.2	516.1	532.3
70°	363.3	384.0	422.6	460.4	474.8
72.5°	301.2	324.6	363.3	402.8	417.2
75°	243.7	266.2	307.5	344.4	360.6
77.5°	187.0	211.3	250.0	287.7	303.9
80°	133.1	156.5	196.0	232.0	249.1
82.5°	84.5	105.2	144.8	177.1	189.7
85°	43.2	61.1	90.8	101.6	107.9
87.5°	12.6	21.6	32.4	40.5	45.0
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	16.72	18.38	17.09	18.70	19.01	17.46	19.12	17.82	19.43	19.75
	3H	18.49	20.00	18.87	20.32	20.68	19.54	21.04	19.92	21.37	21.73
	4H	19.11	20.53	19.51	20.88	21.25	20.40	21.82	20.80	22.17	22.55
	6H	19.52	20.84	19.93	21.20	21.59	21.15	22.47	21.56	22.83	23.22
	8H	19.62	20.88	20.05	21.27	21.67	21.44	22.70	21.87	23.09	23.49
	12H	19.67	20.88	20.10	21.26	21.69	21.64	22.85	22.07	23.23	23.66
4H	2H	17.49	18.91	17.89	19.26	19.63	18.06	19.48	18.46	19.83	20.21
	3H	19.48	20.68	19.89	21.08	21.48	20.38	21.57	20.79	21.97	22.37
	4H	20.23	21.31	20.66	21.72	22.16	21.40	22.48	21.83	22.89	23.33
	6H	20.76	21.71	21.21	22.14	22.60	22.30	23.25	22.75	23.69	24.14
	8H	20.90	21.79	21.36	22.23	22.69	22.67	23.56	23.13	24.00	24.46
	12H	20.98	21.78	21.46	22.25	22.72	22.92	23.72	23.40	24.20	24.67
8H	4H	20.67	21.56	21.13	22.00	22.47	21.69	22.58	22.15	23.02	23.49
	6H	21.34	22.08	21.83	22.56	23.04	22.75	23.49	23.24	23.98	24.45
	8H	21.54	22.21	22.05	22.72	23.20	23.22	23.89	23.73	24.39	24.88
	12H	21.68	22.27	22.19	22.76	23.32	23.57	24.16	24.08	24.65	25.21
12H	4H	20.75	21.55	21.23	22.03	22.50	21.72	22.52	22.20	23.00	23.46
	6H	21.46	22.13	21.97	22.63	23.12	22.80	23.47	23.31	23.97	24.46
	8H	21.74	22.33	22.24	22.82	23.37	23.34	23.93	23.84	24.42	24.98