

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: P1587677

Luminaire Tested: 22CZSP-SB-42-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-42-L840
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

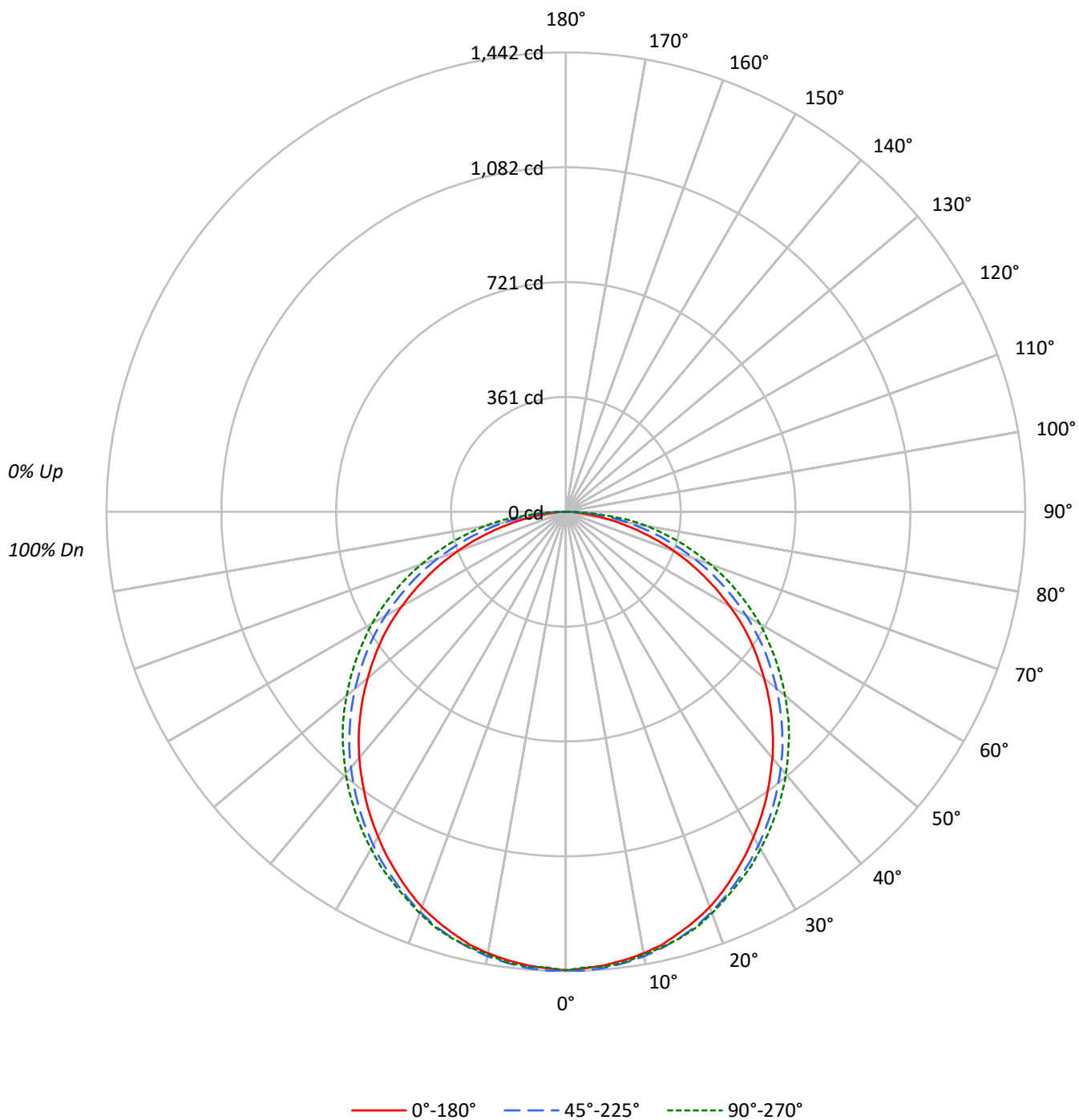
Lumens per Lamp: N/A
Luminaire Lumens: 4200.0 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	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	68
3	89	79	70	63	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°	4507	4507	4507
5°	4490	4515	4504
10°	4474	4505	4488
15°	4441	4487	4492
20°	4402	4455	4470
25°	4331	4407	4438
30°	4262	4371	4420
35°	4193	4329	4404
40°	4124	4291	4393
45°	4047	4251	4389
50°	3958	4205	4378
55°	3868	4159	4377
60°	3724	4097	4403
65°	3550	4017	4406
70°	3312	3907	4419
75°	2947	3764	4496
80°	2420	3607	4665
85°	1595	3384	4214

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4776 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.1	3.2
10°-20°	389.7	9.3
20°-30°	587.3	14.0
30°-40°	707.3	16.8
40°-50°	738.9	17.6
50°-60°	678.9	16.2
60°-70°	534.6	12.7
70°-80°	327.8	7.8
80°-90°	99.4	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°	1113.1	26.5
0°-40°	1820.4	43.3
0°-60°	3238.2	77.1
0°-90°	4200.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4200.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1439	1439	1439	1439	1439	
5°	1428	1431	1436	1435	1433	136
15°	1370	1375	1384	1389	1386	387
25°	1253	1261	1276	1289	1284	578
35°	1097	1111	1132	1153	1152	686
45°	914	933	960	987	991	705
55°	708	729	762	795	802	632
65°	479	504	542	579	595	474
75°	244	272	311	348	372	259
85°	44	66	94	105	117	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1439.2	1439.2	1439.2	1439.2	1439.2
2.5°	1433.8	1437.4	1441.8	1434.7	1431.2
5°	1428.5	1431.2	1436.5	1434.7	1432.9
7.5°	1418.7	1420.5	1427.6	1427.6	1425.8
10°	1407.2	1410.7	1416.9	1416.1	1411.6
12.5°	1392.1	1394.7	1401.8	1401.8	1399.2
15°	1369.8	1375.2	1384.1	1389.4	1385.8
17.5°	1346.7	1352.1	1363.6	1368.9	1367.2
20°	1320.9	1325.4	1336.9	1344.9	1341.4
22.5°	1288.9	1294.3	1307.6	1316.5	1312.9
25°	1253.4	1261.4	1275.6	1288.9	1284.5
27.5°	1217.8	1226.7	1244.5	1257.8	1256.1
30°	1178.7	1190.3	1208.9	1225.8	1222.3
32.5°	1138.7	1152.0	1171.6	1189.4	1188.5
35°	1096.9	1111.2	1132.5	1152.9	1152.0
37.5°	1052.5	1069.4	1091.6	1113.8	1114.7
40°	1008.9	1024.9	1049.8	1073.8	1074.7
42.5°	962.7	979.6	1006.3	1031.2	1032.0
45°	913.8	933.4	960.0	986.7	991.2
47.5°	864.0	884.5	912.0	940.5	945.8
50°	812.5	833.8	863.1	893.4	898.7
52.5°	760.0	782.3	812.5	842.7	850.7
55°	708.5	728.9	761.8	794.7	801.8
57.5°	654.2	672.9	708.5	743.1	752.0
60°	594.7	617.8	654.2	688.9	703.1
62.5°	536.9	561.8	599.1	633.8	649.8
65°	479.1	504.0	542.2	578.7	594.7
67.5°	420.5	446.2	487.1	521.8	539.6
70°	361.8	387.6	426.7	464.0	482.7
72.5°	303.1	330.7	368.9	407.1	425.8
75°	243.6	272.0	311.1	348.5	371.6
77.5°	187.6	215.1	254.2	292.5	312.0
80°	134.2	161.8	200.0	238.2	258.7
82.5°	85.3	111.1	148.5	180.5	199.1
85°	44.4	65.8	94.2	104.9	117.3
87.5°	13.3	25.8	36.4	40.9	50.7
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	16.74	18.41	17.11	18.72	19.04	17.49	19.15	17.85	19.47	19.78
	3H	18.51	20.01	18.88	20.34	20.70	19.59	21.09	19.96	21.42	21.78
	4H	19.13	20.55	19.53	20.90	21.28	20.47	21.89	20.87	22.24	22.61
	6H	19.54	20.86	19.95	21.23	21.62	21.24	22.56	21.65	22.92	23.31
	8H	19.65	20.91	20.07	21.30	21.70	21.55	22.81	21.97	23.20	23.60
	12H	19.70	20.91	20.13	21.29	21.72	21.76	22.97	22.19	23.35	23.78
4H	2H	17.51	18.94	17.91	19.28	19.66	18.09	19.52	18.49	19.86	20.24
	3H	19.51	20.71	19.92	21.10	21.50	20.42	21.62	20.83	22.02	22.42
	4H	20.26	21.35	20.69	21.76	22.20	21.46	22.54	21.89	22.96	23.39
	6H	20.80	21.75	21.25	22.19	22.64	22.39	23.34	22.84	23.78	24.23
	8H	20.95	21.84	21.40	22.28	22.74	22.77	23.66	23.23	24.11	24.57
	12H	21.03	21.83	21.51	22.31	22.78	23.05	23.85	23.53	24.33	24.79
8H	4H	20.71	21.61	21.17	22.05	22.51	21.76	22.65	22.22	23.09	23.55
	6H	21.39	22.14	21.88	22.62	23.10	22.84	23.59	23.33	24.07	24.55
	8H	21.61	22.28	22.12	22.79	23.27	23.33	24.00	23.84	24.50	24.99
	12H	21.76	22.35	22.26	22.84	23.40	23.70	24.30	24.21	24.79	25.34
12H	4H	20.80	21.60	21.28	22.08	22.54	21.78	22.59	22.26	23.06	23.53
	6H	21.52	22.19	22.03	22.69	23.18	22.89	23.56	23.40	24.07	24.55
	8H	21.81	22.40	22.32	22.89	23.45	23.45	24.04	23.95	24.53	25.09