

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: P1587701

Luminaire Tested: 22CZSP-SB-43HE-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587701
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-43HE-L850
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

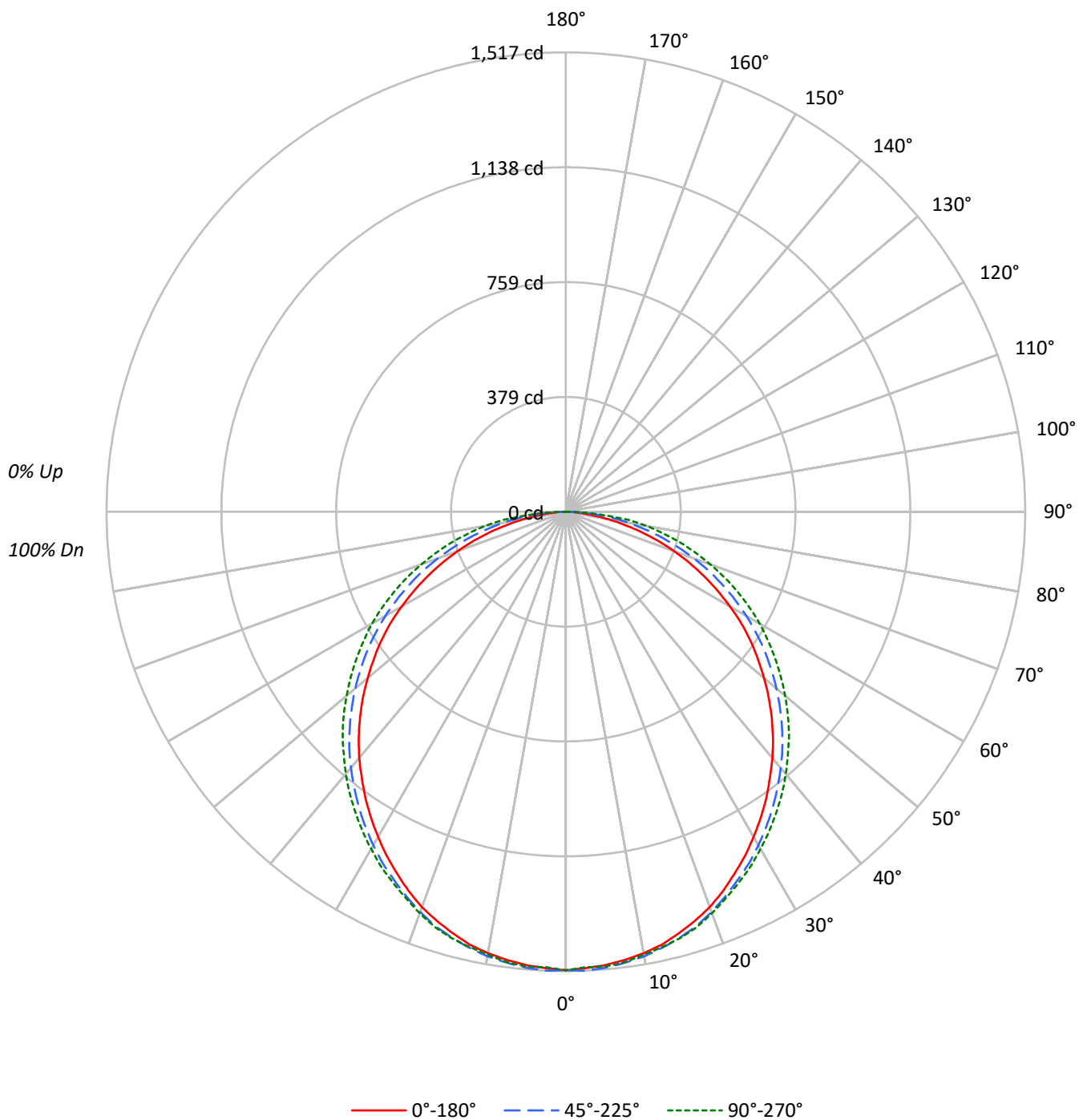
Lumens per Lamp: N/A
Luminaire Lumens: 4418.0 lumens
Efficiency: N/A
Efficacy: 156.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.2
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°	4741	4741	4741
5°	4723	4750	4738
10°	4706	4739	4721
15°	4671	4720	4726
20°	4630	4686	4702
25°	4555	4636	4668
30°	4483	4598	4649
35°	4411	4554	4632
40°	4338	4514	4621
45°	4257	4472	4617
50°	4164	4423	4605
55°	4068	4375	4604
60°	3918	4310	4632
65°	3734	4226	4635
70°	3485	4109	4648
75°	3100	3960	4729
80°	2546	3794	4907
85°	1681	3560	4434

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5026 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	3.2
10°-20°	409.9	9.3
20°-30°	617.8	14.0
30°-40°	744.0	16.8
40°-50°	777.3	17.6
50°-60°	714.1	16.2
60°-70°	562.4	12.7
70°-80°	344.8	7.8
80°-90°	104.5	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°	1170.9	26.5
0°-40°	1914.9	43.3
0°-60°	3406.3	77.1
0°-90°	4418.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4418.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1514	1514	1514	1514	1514	
5°	1503	1506	1511	1509	1507	143
15°	1441	1446	1456	1462	1458	407
25°	1318	1327	1342	1356	1351	608
35°	1154	1169	1191	1213	1212	722
45°	961	982	1010	1038	1043	741
55°	745	767	801	836	843	665
65°	504	530	570	609	626	498
75°	256	286	327	366	391	272
85°	47	69	99	110	123	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1513.9	1513.9	1513.9	1513.9	1513.9
2.5°	1508.3	1512.0	1516.7	1509.2	1505.5
5°	1502.7	1505.5	1511.1	1509.2	1507.3
7.5°	1492.4	1494.2	1501.7	1501.7	1499.8
10°	1480.2	1483.9	1490.5	1489.6	1484.9
12.5°	1464.3	1467.1	1474.6	1474.6	1471.8
15°	1440.9	1446.5	1455.9	1461.5	1457.8
17.5°	1416.6	1422.2	1434.4	1440.0	1438.1
20°	1389.5	1394.2	1406.3	1414.8	1411.0
22.5°	1355.8	1361.5	1375.5	1384.8	1381.1
25°	1318.4	1326.9	1341.8	1355.8	1351.2
27.5°	1281.0	1290.4	1309.1	1323.1	1321.2
30°	1239.9	1252.1	1271.7	1289.5	1285.7
32.5°	1197.8	1211.8	1232.4	1251.1	1250.2
35°	1153.9	1168.8	1191.3	1212.8	1211.8
37.5°	1107.1	1124.9	1148.3	1171.6	1172.6
40°	1061.3	1078.1	1104.3	1129.6	1130.5
42.5°	1012.7	1030.4	1058.5	1084.7	1085.6
45°	961.2	981.8	1009.9	1037.9	1042.6
47.5°	908.9	930.4	959.4	989.3	994.9
50°	854.7	877.1	907.9	939.7	945.4
52.5°	799.5	822.9	854.7	886.4	894.9
55°	745.2	766.8	801.4	835.9	843.4
57.5°	688.2	707.8	745.2	781.7	791.1
60°	625.6	649.9	688.2	724.7	739.6
62.5°	564.8	591.0	630.2	666.7	683.5
65°	504.0	530.2	570.4	608.7	625.6
67.5°	442.3	469.4	512.4	548.9	567.6
70°	380.6	407.7	448.8	488.1	507.7
72.5°	318.9	347.8	388.1	428.3	447.9
75°	256.2	286.1	327.3	366.5	390.9
77.5°	197.3	226.3	267.4	307.6	328.2
80°	141.2	170.2	210.4	250.6	272.1
82.5°	89.8	116.9	156.2	189.8	209.5
85°	46.8	69.2	99.1	110.3	123.4
87.5°	14.0	27.1	38.3	43.0	53.3
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	16.92	18.58	17.28	18.90	19.21	17.67	19.33	18.03	19.64	19.96
	3H	18.68	20.19	19.06	20.52	20.88	19.76	21.27	20.14	21.60	21.96
	4H	19.31	20.73	19.70	21.08	21.45	20.65	22.07	21.04	22.42	22.79
	6H	19.72	21.04	20.13	21.40	21.79	21.41	22.73	21.82	23.10	23.49
	8H	19.83	21.09	20.25	21.48	21.87	21.72	22.99	22.15	23.38	23.77
	12H	19.88	21.09	20.31	21.47	21.90	21.94	23.15	22.37	23.53	23.96
4H	2H	17.69	19.11	18.09	19.46	19.83	18.27	19.69	18.67	20.04	20.41
	3H	19.68	20.88	20.09	21.28	21.68	20.60	21.80	21.01	22.19	22.59
	4H	20.44	21.52	20.87	21.94	22.37	21.63	22.72	22.06	23.13	23.57
	6H	20.97	21.93	21.43	22.37	22.82	22.56	23.52	23.02	23.96	24.41
	8H	21.12	22.01	21.58	22.45	22.92	22.95	23.84	23.41	24.28	24.75
	12H	21.21	22.01	21.69	22.49	22.95	23.22	24.03	23.70	24.50	24.97
8H	4H	20.89	21.78	21.35	22.22	22.69	21.93	22.83	22.39	23.27	23.73
	6H	21.57	22.31	22.06	22.80	23.27	23.02	23.76	23.51	24.25	24.72
	8H	21.79	22.46	22.30	22.96	23.45	23.50	24.17	24.01	24.68	25.16
	12H	21.94	22.53	22.44	23.02	23.58	23.88	24.47	24.38	24.96	25.52
12H	4H	20.97	21.78	21.45	22.25	22.72	21.96	22.76	22.44	23.24	23.71
	6H	21.69	22.36	22.20	22.87	23.35	23.07	23.74	23.58	24.24	24.73
	8H	21.99	22.58	22.49	23.07	23.63	23.62	24.22	24.13	24.70	25.26