

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: P1587698

Luminaire Tested: 22CZSP-SB-43HE-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587698
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-43HE-L845-S
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 4000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

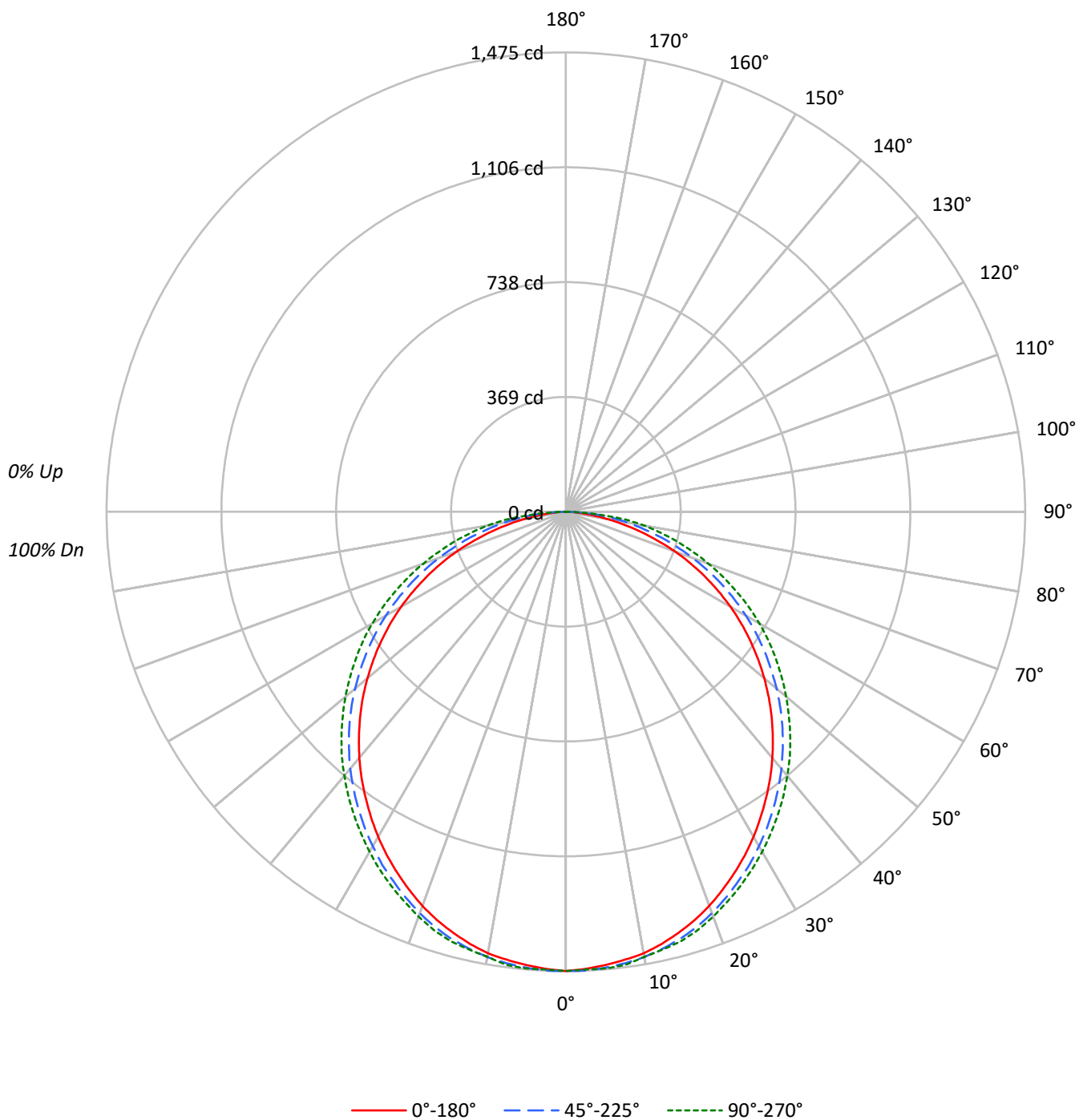
Lumens per Lamp: N/A
Luminaire Lumens: 4290.0 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.2
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	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°	4618	4618	4618
5°	4592	4618	4627
10°	4578	4616	4613
15°	4536	4601	4628
20°	4487	4570	4610
25°	4422	4525	4582
30°	4358	4485	4558
35°	4286	4442	4537
40°	4218	4402	4523
45°	4140	4357	4512
50°	4051	4302	4500
55°	3950	4247	4494
60°	3826	4185	4497
65°	3651	4096	4472
70°	3413	3972	4461
75°	3026	3818	4478
80°	2463	3628	4609
85°	1592	3348	3977

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4671 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	3.3
10°-20°	399.7	9.3
20°-30°	602.6	14.0
30°-40°	725.0	16.9
40°-50°	756.3	17.6
50°-60°	693.2	16.2
60°-70°	544.4	12.7
70°-80°	331.3	7.7
80°-90°	98.0	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°	1141.8	26.6
0°-40°	1866.8	43.5
0°-60°	3316.3	77.3
0°-90°	4290.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4290.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1475	1475	1475	1475	1475	
5°	1461	1470	1469	1467	1472	139
15°	1399	1413	1419	1421	1428	395
25°	1280	1298	1310	1318	1326	590
35°	1121	1139	1162	1178	1187	702
45°	935	954	984	1007	1019	721
55°	724	742	778	809	823	647
65°	493	511	553	590	604	487
75°	250	273	316	354	370	265
85°	44	63	93	104	111	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1474.8	1474.8	1474.8	1474.8	1474.8
2.5°	1469.2	1476.6	1474.8	1468.3	1471.1
5°	1460.9	1470.1	1469.2	1467.4	1472.0
7.5°	1450.8	1460.9	1461.8	1461.8	1467.4
10°	1439.7	1449.8	1451.7	1448.9	1450.8
12.5°	1421.2	1433.2	1436.9	1436.9	1439.7
15°	1399.1	1412.9	1419.4	1421.2	1427.7
17.5°	1375.1	1389.8	1398.2	1402.8	1408.3
20°	1346.5	1362.2	1371.4	1376.9	1383.4
22.5°	1314.2	1331.7	1341.9	1347.4	1354.8
25°	1280.0	1297.6	1309.6	1317.9	1326.2
27.5°	1244.0	1260.6	1277.3	1287.4	1294.8
30°	1205.3	1222.8	1240.3	1253.3	1260.6
32.5°	1163.7	1182.2	1202.5	1216.3	1224.7
35°	1121.3	1138.8	1161.9	1178.5	1186.8
37.5°	1077.9	1096.4	1120.4	1137.9	1148.1
40°	1031.8	1051.2	1077.0	1096.4	1106.5
42.5°	983.8	1002.2	1030.9	1053.0	1065.0
45°	934.9	954.3	983.8	1006.9	1018.9
47.5°	884.1	902.6	934.9	961.6	971.8
50°	831.5	849.0	883.2	911.8	923.8
52.5°	778.0	796.4	830.6	861.0	874.0
55°	723.5	742.0	778.0	809.4	823.2
57.5°	668.2	686.6	723.5	755.8	772.4
60°	610.9	629.4	668.2	701.4	718.0
62.5°	551.9	571.3	610.9	645.1	662.6
65°	492.8	511.3	552.8	589.7	603.6
67.5°	433.8	452.2	492.8	529.7	546.3
70°	372.8	394.1	433.8	472.5	487.3
72.5°	309.2	333.2	372.8	413.4	428.2
75°	250.1	273.2	315.6	353.5	370.1
77.5°	192.0	216.9	256.6	295.3	311.9
80°	136.6	160.6	201.2	238.1	255.6
82.5°	86.8	108.0	148.6	181.8	194.7
85°	44.3	62.8	93.2	104.3	110.7
87.5°	12.9	22.1	33.2	41.5	46.1
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	16.81	18.47	17.18	18.79	19.10	17.55	19.21	17.91	19.52	19.84
	3H	18.58	20.09	18.96	20.41	20.77	19.63	21.13	20.01	21.46	21.82
	4H	19.20	20.62	19.60	20.97	21.34	20.49	21.91	20.89	22.26	22.64
	6H	19.61	20.93	20.02	21.29	21.68	21.24	22.56	21.65	22.92	23.31
	8H	19.71	20.97	20.14	21.36	21.76	21.53	22.79	21.96	23.18	23.58
	12H	19.76	20.97	20.19	21.35	21.78	21.73	22.94	22.16	23.32	23.75
4H	2H	17.58	19.00	17.98	19.35	19.73	18.15	19.57	18.55	19.92	20.30
	3H	19.57	20.77	19.98	21.17	21.57	20.47	21.66	20.88	22.06	22.46
	4H	20.32	21.40	20.75	21.81	22.25	21.49	22.57	21.92	22.98	23.42
	6H	20.85	21.80	21.30	22.24	22.69	22.39	23.34	22.84	23.78	24.23
	8H	20.99	21.88	21.45	22.32	22.78	22.76	23.65	23.22	24.09	24.55
	12H	21.07	21.87	21.55	22.34	22.81	23.01	23.81	23.49	24.29	24.76
8H	4H	20.76	21.65	21.22	22.09	22.56	21.78	22.67	22.24	23.11	23.58
	6H	21.43	22.17	21.92	22.65	23.13	22.84	23.58	23.33	24.07	24.54
	8H	21.64	22.30	22.14	22.81	23.29	23.31	23.98	23.82	24.48	24.97
	12H	21.77	22.36	22.28	22.85	23.41	23.66	24.25	24.17	24.74	25.30
12H	4H	20.84	21.64	21.32	22.12	22.59	21.81	22.61	22.29	23.09	23.55
	6H	21.55	22.22	22.06	22.72	23.21	22.89	23.56	23.40	24.06	24.55
	8H	21.83	22.42	22.33	22.91	23.47	23.43	24.02	23.93	24.51	25.07