

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: P1587710

Luminaire Tested: 22CZSP-SB-43HE-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587710
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-L950-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

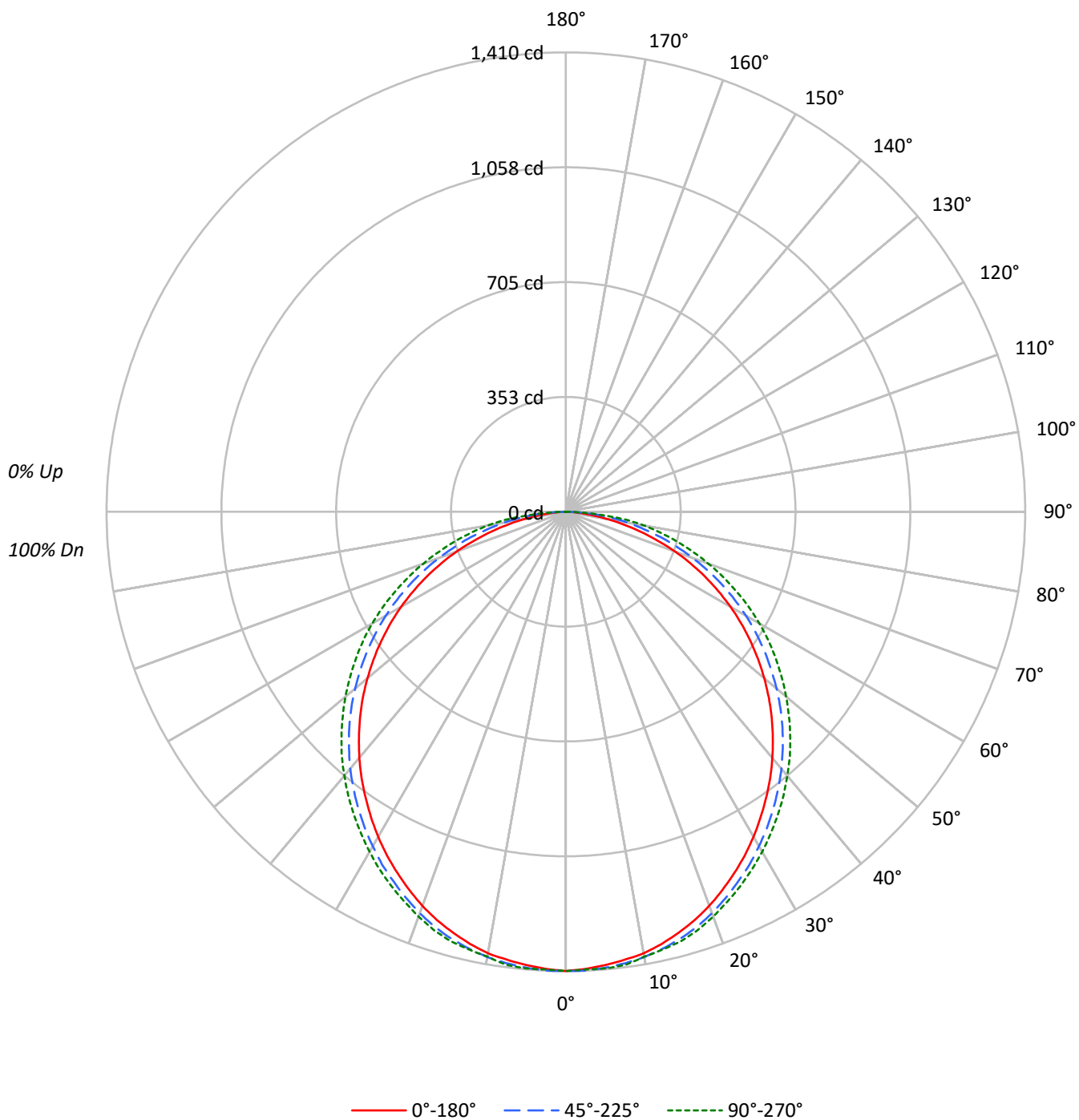
Lumens per Lamp: N/A
Luminaire Lumens: 4101.0 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	4415	4415	4415
5°	4390	4415	4423
10°	4376	4412	4410
15°	4336	4398	4424
20°	4289	4369	4407
25°	4228	4325	4380
30°	4166	4287	4357
35°	4097	4246	4337
40°	4032	4208	4324
45°	3958	4164	4313
50°	3872	4113	4302
55°	3776	4060	4296
60°	3657	4000	4299
65°	3491	3915	4275
70°	3263	3796	4265
75°	2893	3650	4280
80°	2355	3468	4407
85°	1520	3201	3805

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4465 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	3.3
10°-20°	382.0	9.3
20°-30°	576.0	14.0
30°-40°	693.1	16.9
40°-50°	723.0	17.6
50°-60°	662.7	16.2
60°-70°	520.4	12.7
70°-80°	316.7	7.7
80°-90°	93.7	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°	1091.5	26.6
0°-40°	1784.6	43.5
0°-60°	3170.2	77.3
0°-90°	4101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4101.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1410	1410	1410	1410	1410	
5°	1396	1405	1404	1403	1407	133
15°	1337	1351	1357	1359	1365	377
25°	1224	1240	1252	1260	1268	564
35°	1072	1089	1111	1127	1134	671
45°	894	912	940	962	974	689
55°	692	709	744	774	787	618
65°	471	489	528	564	577	466
75°	239	261	302	338	354	253
85°	42	60	89	100	106	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1409.8	1409.8	1409.8	1409.8	1409.8
2.5°	1404.5	1411.5	1409.8	1403.6	1406.3
5°	1396.5	1405.4	1404.5	1402.7	1407.1
7.5°	1386.8	1396.5	1397.4	1397.4	1402.7
10°	1376.3	1386.0	1387.7	1385.1	1386.8
12.5°	1358.6	1370.1	1373.6	1373.6	1376.3
15°	1337.4	1350.7	1356.8	1358.6	1364.8
17.5°	1314.5	1328.6	1336.6	1341.0	1346.3
20°	1287.2	1302.2	1311.0	1316.3	1322.4
22.5°	1256.3	1273.0	1282.7	1288.0	1295.1
25°	1223.6	1240.4	1251.9	1259.8	1267.7
27.5°	1189.2	1205.1	1221.0	1230.7	1237.7
30°	1152.2	1168.9	1185.7	1198.0	1205.1
32.5°	1112.5	1130.1	1149.5	1162.8	1170.7
35°	1071.9	1088.7	1110.7	1126.6	1134.5
37.5°	1030.4	1048.1	1071.0	1087.8	1097.5
40°	986.3	1004.8	1029.5	1048.1	1057.8
42.5°	940.4	958.1	985.4	1006.6	1018.1
45°	893.7	912.2	940.4	962.5	974.0
47.5°	845.2	862.8	893.7	919.3	929.0
50°	794.9	811.6	844.3	871.6	883.1
52.5°	743.7	761.4	794.0	823.1	835.5
55°	691.7	709.3	743.7	773.7	786.9
57.5°	638.7	656.4	691.7	722.5	738.4
60°	584.0	601.7	638.7	670.5	686.4
62.5°	527.6	546.1	584.0	616.7	633.4
65°	471.1	488.7	528.4	563.7	577.0
67.5°	414.6	432.3	471.1	506.4	522.3
70°	356.4	376.7	414.6	451.7	465.8
72.5°	295.5	318.5	356.4	395.2	409.3
75°	239.1	261.1	301.7	337.9	353.8
77.5°	183.5	207.3	245.3	282.3	298.2
80°	130.6	153.5	192.3	227.6	244.4
82.5°	82.9	103.2	142.0	173.8	186.1
85°	42.3	60.0	89.1	99.7	105.9
87.5°	12.4	21.2	31.8	39.7	44.1
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	16.66	18.32	17.02	18.63	18.95	17.39	19.05	17.76	19.37	19.68
	3H	18.43	19.93	18.80	20.26	20.62	19.47	20.98	19.85	21.30	21.66
	4H	19.05	20.47	19.44	20.81	21.19	20.34	21.76	20.74	22.11	22.48
	6H	19.46	20.77	19.87	21.14	21.53	21.08	22.40	21.49	22.76	23.15
	8H	19.56	20.82	19.98	21.21	21.60	21.38	22.64	21.80	23.03	23.42
	12H	19.61	20.81	20.04	21.20	21.62	21.57	22.78	22.00	23.16	23.59
4H	2H	17.43	18.85	17.82	19.19	19.57	18.00	19.42	18.40	19.76	20.14
	3H	19.42	20.61	19.83	21.01	21.41	20.31	21.51	20.72	21.90	22.30
	4H	20.16	21.24	20.59	21.66	22.09	21.33	22.41	21.76	22.83	23.26
	6H	20.69	21.64	21.14	22.08	22.53	22.24	23.18	22.69	23.62	24.08
	8H	20.83	21.72	21.29	22.16	22.63	22.60	23.49	23.06	23.93	24.40
	12H	20.91	21.71	21.39	22.19	22.66	22.86	23.66	23.34	24.13	24.60
8H	4H	20.61	21.50	21.07	21.94	22.40	21.63	22.52	22.09	22.96	23.42
	6H	21.27	22.01	21.76	22.50	22.97	22.68	23.43	23.18	23.91	24.39
	8H	21.48	22.14	21.99	22.65	23.13	23.16	23.82	23.66	24.33	24.81
	12H	21.62	22.20	22.12	22.69	23.25	23.51	24.10	24.01	24.59	25.15
12H	4H	20.69	21.49	21.17	21.96	22.43	21.65	22.45	22.13	22.93	23.40
	6H	21.39	22.06	21.90	22.57	23.05	22.74	23.40	23.24	23.91	24.39
	8H	21.67	22.26	22.18	22.75	23.31	23.27	23.86	23.78	24.35	24.91