

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: P1587750

Luminaire Tested: 22CZSP-SB-49HE-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587750
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-49HE-L950-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 4500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

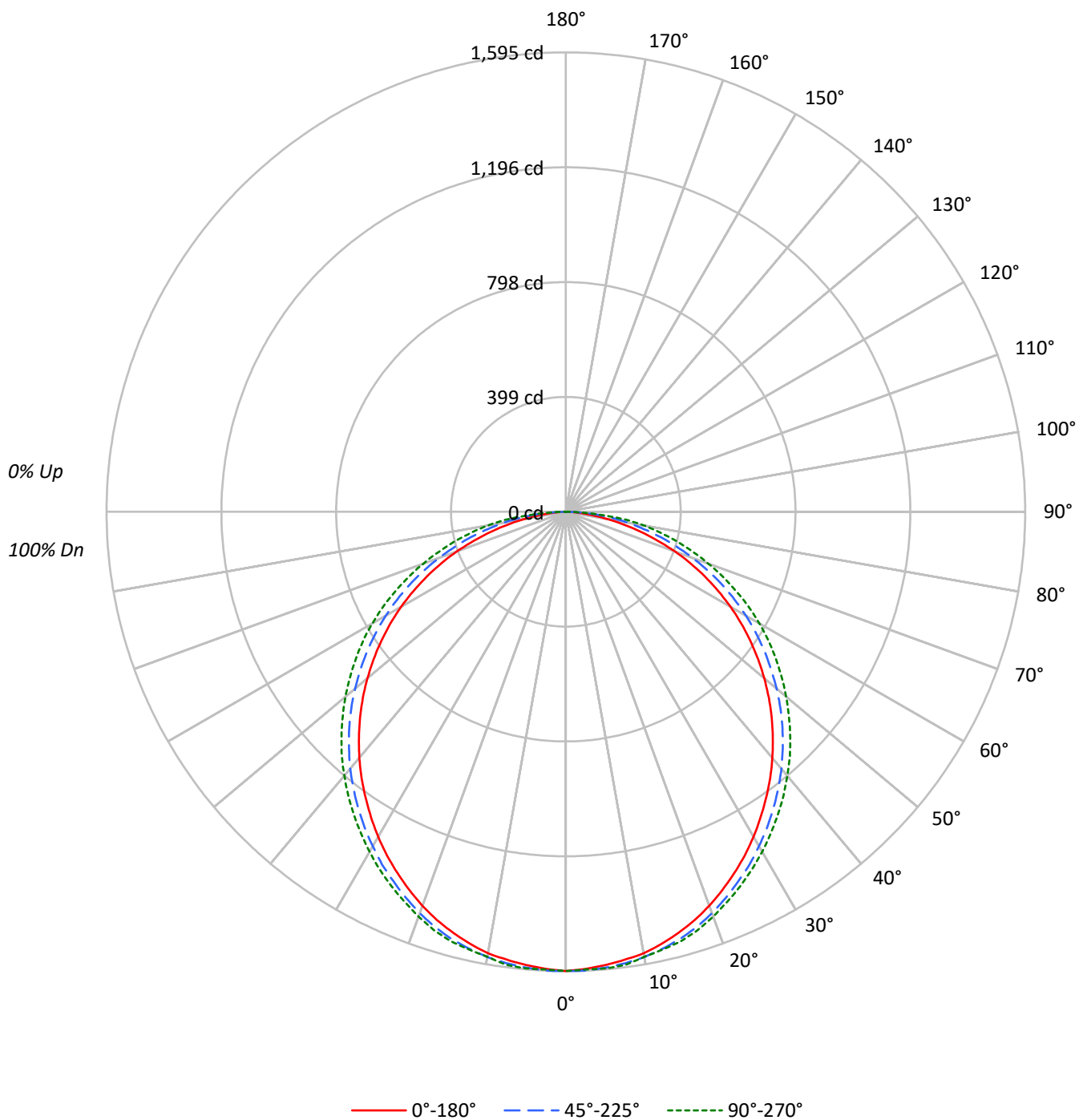
Lumens per Lamp: N/A
Luminaire Lumens: 4639.0 lumens
Efficiency: N/A
Efficacy: 144.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 32.2
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°	4994	4994	4994
5°	4966	4994	5003
10°	4950	4991	4988
15°	4905	4976	5005
20°	4852	4942	4985
25°	4782	4893	4955
30°	4712	4849	4929
35°	4635	4803	4906
40°	4561	4760	4891
45°	4477	4711	4879
50°	4380	4652	4867
55°	4271	4593	4860
60°	4137	4525	4862
65°	3948	4429	4836
70°	3691	4294	4824
75°	3271	4129	4842
80°	2663	3924	4984
85°	1721	3622	4304

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5052 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.9	3.3
10°-20°	432.2	9.3
20°-30°	651.6	14.0
30°-40°	784.0	16.9
40°-50°	817.8	17.6
50°-60°	749.6	16.2
60°-70°	588.6	12.7
70°-80°	358.3	7.7
80°-90°	106.0	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°	1234.7	26.6
0°-40°	2018.7	43.5
0°-60°	3586.1	77.3
0°-90°	4639.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4639.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1595	1595	1595	1595	1595	
5°	1580	1590	1589	1587	1592	150
15°	1513	1528	1535	1537	1544	427
25°	1384	1403	1416	1425	1434	638
35°	1212	1232	1256	1274	1283	759
45°	1011	1032	1064	1089	1102	780
55°	782	802	841	875	890	699
65°	533	553	598	638	653	527
75°	270	295	341	382	400	287
85°	48	68	101	113	120	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1594.7	1594.7	1594.7	1594.7	1594.7
2.5°	1588.7	1596.7	1594.7	1587.7	1590.7
5°	1579.8	1589.7	1588.7	1586.7	1591.7
7.5°	1568.8	1579.8	1580.8	1580.8	1586.7
10°	1556.8	1567.8	1569.8	1566.8	1568.8
12.5°	1536.8	1549.8	1553.8	1553.8	1556.8
15°	1512.9	1527.9	1534.9	1536.8	1543.8
17.5°	1486.9	1502.9	1511.9	1516.9	1522.9
20°	1456.0	1473.0	1483.0	1488.9	1495.9
22.5°	1421.1	1440.0	1451.0	1457.0	1465.0
25°	1384.2	1403.1	1416.1	1425.1	1434.1
27.5°	1345.2	1363.2	1381.2	1392.1	1400.1
30°	1303.3	1322.3	1341.2	1355.2	1363.2
32.5°	1258.4	1278.4	1300.3	1315.3	1324.3
35°	1212.5	1231.5	1256.4	1274.4	1283.4
37.5°	1165.6	1185.6	1211.5	1230.5	1241.5
40°	1115.7	1136.7	1164.6	1185.6	1196.5
42.5°	1063.8	1083.8	1114.7	1138.7	1151.6
45°	1010.9	1031.9	1063.8	1088.8	1101.7
47.5°	956.0	976.0	1010.9	1039.9	1050.8
50°	899.2	918.1	955.0	986.0	999.0
52.5°	841.3	861.2	898.2	931.1	945.1
55°	782.4	802.4	841.3	875.2	890.2
57.5°	722.5	742.5	782.4	817.3	835.3
60°	660.6	680.6	722.5	758.4	776.4
62.5°	596.8	617.7	660.6	697.6	716.5
65°	532.9	552.9	597.8	637.7	652.7
67.5°	469.0	489.0	532.9	572.8	590.8
70°	403.2	426.1	469.0	511.0	526.9
72.5°	334.3	360.3	403.2	447.1	463.0
75°	270.4	295.4	341.3	382.2	400.2
77.5°	207.6	234.5	277.4	319.3	337.3
80°	147.7	173.6	217.6	257.5	276.4
82.5°	93.8	116.8	160.7	196.6	210.6
85°	47.9	67.9	100.8	112.8	119.8
87.5°	14.0	24.0	35.9	44.9	49.9
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	17.09	18.75	17.45	19.06	19.38	17.82	19.48	18.19	19.80	20.11
	3H	18.86	20.36	19.23	20.69	21.05	19.90	21.41	20.28	21.73	22.09
	4H	19.47	20.89	19.87	21.24	21.62	20.77	22.19	21.16	22.53	22.91
	6H	19.88	21.20	20.29	21.56	21.96	21.51	22.83	21.92	23.19	23.58
	8H	19.99	21.25	20.41	21.63	22.03	21.81	23.07	22.23	23.45	23.85
	12H	20.03	21.24	20.46	21.62	22.05	22.00	23.21	22.43	23.59	24.02
4H	2H	17.86	19.28	18.25	19.62	20.00	18.43	19.85	18.82	20.19	20.57
	3H	19.85	21.04	20.26	21.44	21.84	20.74	21.93	21.15	22.33	22.73
	4H	20.59	21.67	21.02	22.09	22.52	21.76	22.84	22.19	23.25	23.69
	6H	21.12	22.07	21.57	22.51	22.96	22.66	23.61	23.12	24.05	24.51
	8H	21.26	22.15	21.72	22.59	23.05	23.03	23.92	23.49	24.36	24.83
	12H	21.34	22.14	21.82	22.62	23.08	23.28	24.09	23.76	24.56	25.03
8H	4H	21.03	21.92	21.49	22.37	22.83	22.06	22.94	22.51	23.39	23.85
	6H	21.70	22.44	22.19	22.93	23.40	23.11	23.86	23.61	24.34	24.82
	8H	21.91	22.57	22.41	23.08	23.56	23.59	24.25	24.09	24.76	25.24
	12H	22.04	22.63	22.55	23.12	23.68	23.94	24.53	24.44	25.02	25.58
12H	4H	21.12	21.92	21.59	22.39	22.86	22.08	22.88	22.56	23.36	23.83
	6H	21.82	22.49	22.33	22.99	23.48	23.16	23.83	23.67	24.34	24.82
	8H	22.10	22.69	22.60	23.18	23.74	23.70	24.29	24.21	24.78	25.34