

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: P1587745

Luminaire Tested: 22CZSP-SB-49HE-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587745
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-49HE-L935
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 4500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

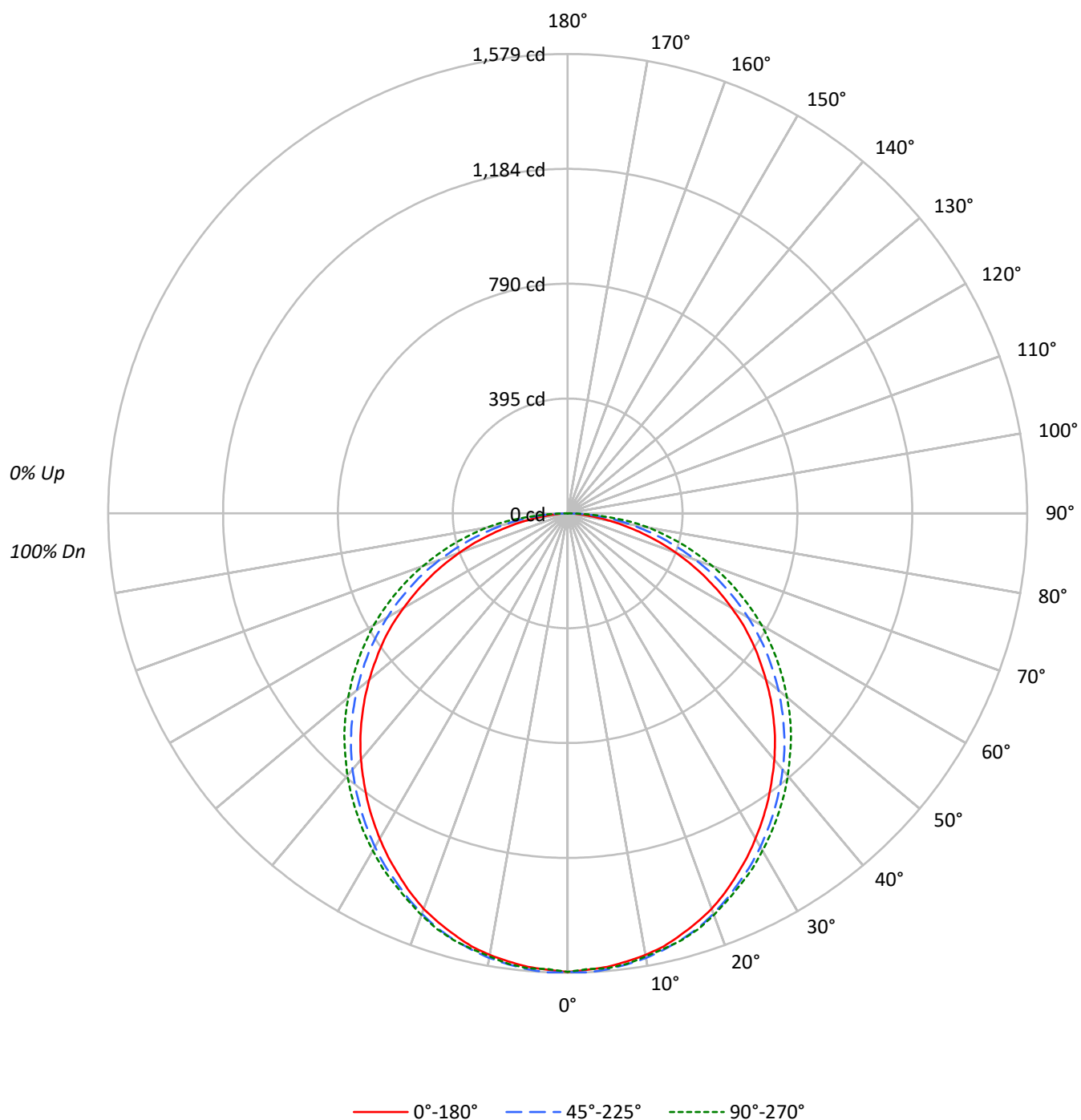
Lumens per Lamp: N/A
Luminaire Lumens: 4600.0 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	4936	4936	4936
5°	4918	4945	4933
10°	4900	4934	4916
15°	4864	4914	4920
20°	4821	4879	4895
25°	4743	4827	4861
30°	4668	4788	4840
35°	4593	4741	4823
40°	4517	4700	4812
45°	4432	4656	4807
50°	4335	4605	4795
55°	4236	4555	4794
60°	4079	4488	4823
65°	3888	4400	4826
70°	3627	4278	4840
75°	3228	4123	4924
80°	2651	3951	5109
85°	1750	3708	4617

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5232 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.1	3.2
10°-20°	426.8	9.3
20°-30°	643.3	14.0
30°-40°	774.7	16.8
40°-50°	809.3	17.6
50°-60°	743.5	16.2
60°-70°	585.5	12.7
70°-80°	359.0	7.8
80°-90°	108.8	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°	1219.1	26.5
0°-40°	1993.8	43.3
0°-60°	3546.7	77.1
0°-90°	4600.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4600.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1576	1576	1576	1576	1576	
5°	1565	1568	1573	1571	1569	149
15°	1500	1506	1516	1522	1518	423
25°	1373	1382	1397	1412	1407	633
35°	1201	1217	1240	1263	1262	751
45°	1001	1022	1052	1081	1086	772
55°	776	798	834	870	878	692
65°	525	552	594	634	651	519
75°	267	298	341	382	407	284
85°	49	72	103	115	128	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1576.2	1576.2	1576.2	1576.2	1576.2
2.5°	1570.4	1574.3	1579.2	1571.4	1567.5
5°	1564.6	1567.5	1573.3	1571.4	1569.4
7.5°	1553.8	1555.8	1563.6	1563.6	1561.6
10°	1541.2	1545.1	1551.9	1550.9	1546.1
12.5°	1524.6	1527.6	1535.3	1535.3	1532.4
15°	1500.3	1506.1	1515.9	1521.7	1517.8
17.5°	1475.0	1480.8	1493.5	1499.3	1497.4
20°	1446.7	1451.6	1464.3	1473.0	1469.1
22.5°	1411.7	1417.5	1432.1	1441.9	1438.0
25°	1372.8	1381.5	1397.1	1411.7	1406.8
27.5°	1333.8	1343.5	1363.0	1377.6	1375.7
30°	1291.0	1303.6	1324.1	1342.6	1338.7
32.5°	1247.2	1261.8	1283.2	1302.7	1301.7
35°	1201.4	1217.0	1240.3	1262.7	1261.8
37.5°	1152.7	1171.2	1195.6	1219.9	1220.9
40°	1105.0	1122.5	1149.8	1176.1	1177.1
42.5°	1054.4	1072.9	1102.1	1129.4	1130.3
45°	1000.8	1022.3	1051.5	1080.7	1085.5
47.5°	946.3	968.7	998.9	1030.1	1035.9
50°	889.9	913.2	945.4	978.5	984.3
52.5°	832.4	856.8	889.9	923.0	931.7
55°	775.9	798.3	834.4	870.4	878.2
57.5°	716.6	737.0	775.9	813.9	823.7
60°	651.3	676.6	716.6	754.5	770.1
62.5°	588.0	615.3	656.2	694.2	711.7
65°	524.8	552.0	593.9	633.8	651.3
67.5°	460.5	488.7	533.5	571.5	591.0
70°	396.2	424.5	467.3	508.2	528.7
72.5°	332.0	362.2	404.0	445.9	466.3
75°	266.8	297.9	340.8	381.6	407.0
77.5°	205.4	235.6	278.4	320.3	341.7
80°	147.0	177.2	219.1	260.9	283.3
82.5°	93.5	121.7	162.6	197.6	218.1
85°	48.7	72.0	103.2	114.9	128.5
87.5°	14.6	28.2	39.9	44.8	55.5
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	17.06	18.72	17.43	19.04	19.35	17.81	19.47	18.17	19.78	20.10
	3H	18.82	20.33	19.20	20.66	21.02	19.90	21.41	20.28	21.74	22.10
	4H	19.45	20.87	19.85	21.22	21.59	20.79	22.21	21.18	22.56	22.93
	6H	19.86	21.18	20.27	21.54	21.93	21.55	22.87	21.96	23.24	23.63
	8H	19.97	21.23	20.39	21.62	22.02	21.86	23.13	22.29	23.52	23.91
	12H	20.02	21.23	20.45	21.61	22.04	22.08	23.29	22.51	23.67	24.10
4H	2H	17.83	19.25	18.23	19.60	19.97	18.41	19.83	18.81	20.18	20.55
	3H	19.82	21.02	20.23	21.42	21.82	20.74	21.94	21.15	22.33	22.73
	4H	20.58	21.66	21.01	22.08	22.51	21.77	22.86	22.20	23.27	23.71
	6H	21.11	22.07	21.57	22.51	22.96	22.70	23.66	23.16	24.10	24.55
	8H	21.26	22.15	21.72	22.60	23.06	23.09	23.98	23.55	24.42	24.89
	12H	21.35	22.15	21.83	22.63	23.09	23.36	24.17	23.84	24.64	25.11
8H	4H	21.03	21.92	21.49	22.36	22.83	22.07	22.97	22.53	23.41	23.87
	6H	21.71	22.45	22.20	22.94	23.41	23.16	23.90	23.65	24.39	24.86
	8H	21.93	22.60	22.44	23.10	23.59	23.64	24.31	24.15	24.82	25.30
	12H	22.08	22.67	22.58	23.16	23.72	24.02	24.61	24.52	25.10	25.66
12H	4H	21.11	21.92	21.59	22.39	22.86	22.10	22.90	22.58	23.38	23.85
	6H	21.83	22.51	22.34	23.01	23.49	23.21	23.88	23.72	24.38	24.87
	8H	22.13	22.72	22.63	23.21	23.77	23.76	24.36	24.27	24.84	25.40