

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: P1587743

Luminaire Tested: 22CZSP-SB-49HE-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587743
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-L930
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 4500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

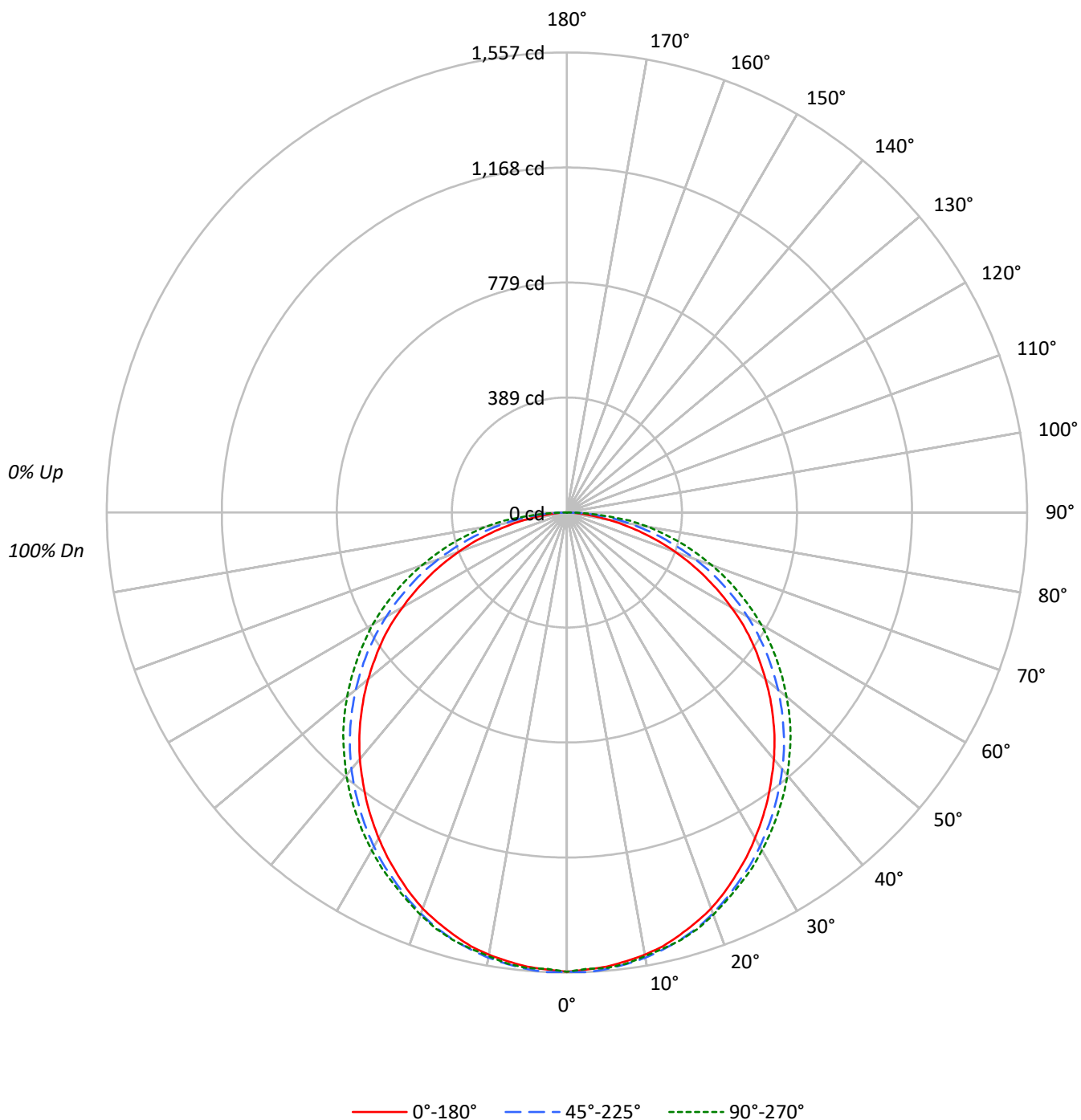
Lumens per Lamp: N/A
Luminaire Lumens: 4536.0 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1587743

CATALOG NUMBER: 22CZSP-SB-49HE-L930

Luminous Intensity Polar Plot



TEST NUMBER: P1587743

CATALOG NUMBER: 22CZSP-SB-49HE-L930

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°	4867	4867	4867
5°	4849	4876	4865
10°	4832	4866	4847
15°	4796	4846	4852
20°	4754	4811	4827
25°	4677	4760	4793
30°	4603	4721	4773
35°	4529	4675	4756
40°	4454	4635	4745
45°	4370	4591	4740
50°	4275	4541	4728
55°	4177	4492	4728
60°	4023	4425	4756
65°	3834	4339	4759
70°	3577	4219	4773
75°	3183	4065	4855
80°	2615	3895	5038
85°	1725	3657	4552

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5158 cd/sqm

TEST NUMBER: P1587743

CATALOG NUMBER: 22CZSP-SB-49HE-L930

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.0	3.2
10°-20°	420.8	9.3
20°-30°	634.3	14.0
30°-40°	763.9	16.8
40°-50°	798.0	17.6
50°-60°	733.2	16.2
60°-70°	577.4	12.7
70°-80°	354.0	7.8
80°-90°	107.3	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°	1202.2	26.5
0°-40°	1966.1	43.3
0°-60°	3497.3	77.1
0°-90°	4536.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4536.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1554	1554	1554	1554	1554	
5°	1543	1546	1551	1550	1548	147
15°	1479	1485	1495	1500	1497	417
25°	1354	1362	1378	1392	1387	624
35°	1185	1200	1223	1245	1244	741
45°	987	1008	1037	1066	1070	761
55°	765	787	823	858	866	683
65°	518	544	586	625	642	512
75°	263	294	336	376	401	280
85°	48	71	102	113	127	62
90°	0	0	0	0	0	

TEST NUMBER: P1587743

CATALOG NUMBER: 22CZSP-SB-49HE-L930

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1554.3	1554.3	1554.3	1554.3	1554.3
2.5°	1548.5	1552.4	1557.2	1549.5	1545.7
5°	1542.8	1545.7	1551.4	1549.5	1547.6
7.5°	1532.2	1534.1	1541.8	1541.8	1539.9
10°	1519.7	1523.6	1530.3	1529.3	1524.5
12.5°	1503.4	1506.3	1514.0	1514.0	1511.1
15°	1479.4	1485.2	1494.8	1500.5	1496.7
17.5°	1454.5	1460.2	1472.7	1478.5	1476.5
20°	1426.6	1431.4	1443.9	1452.5	1448.7
22.5°	1392.1	1397.8	1412.2	1421.8	1418.0
25°	1353.7	1362.3	1377.7	1392.1	1387.3
27.5°	1315.3	1324.9	1344.1	1358.5	1356.5
30°	1273.0	1285.5	1305.7	1323.9	1320.1
32.5°	1229.8	1244.2	1265.3	1284.5	1283.6
35°	1184.7	1200.1	1223.1	1245.2	1244.2
37.5°	1136.7	1154.9	1178.9	1202.9	1203.9
40°	1089.6	1106.9	1133.8	1159.7	1160.7
42.5°	1039.7	1058.0	1086.8	1113.6	1114.6
45°	986.9	1008.0	1036.8	1065.6	1070.4
47.5°	933.2	955.2	985.0	1015.7	1021.5
50°	877.5	900.5	932.2	964.8	970.6
52.5°	820.8	844.8	877.5	910.1	918.8
55°	765.2	787.2	822.8	858.3	866.0
57.5°	706.6	726.8	765.2	802.6	812.2
60°	642.3	667.2	706.6	744.0	759.4
62.5°	579.9	606.7	647.1	684.5	701.8
65°	517.5	544.3	585.6	625.0	642.3
67.5°	454.1	481.9	526.1	563.5	582.7
70°	390.7	418.6	460.8	501.1	521.3
72.5°	327.4	357.1	398.4	439.7	459.9
75°	263.1	293.8	336.0	376.3	401.3
77.5°	202.6	232.3	274.6	315.9	337.0
80°	145.0	174.7	216.0	257.3	279.4
82.5°	92.2	120.0	160.3	194.9	215.0
85°	48.0	71.0	101.8	113.3	126.7
87.5°	14.4	27.8	39.4	44.2	54.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1587743

CATALOG NUMBER: 22CZSP-SB-49HE-L930

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	17.01	18.67	17.38	18.99	19.30	17.76	19.42	18.12	19.73	20.05
	3H	18.77	20.28	19.15	20.61	20.97	19.85	21.36	20.23	21.69	22.05
	4H	19.40	20.82	19.80	21.17	21.54	20.74	22.16	21.14	22.51	22.88
	6H	19.81	21.13	20.22	21.50	21.89	21.50	22.83	21.92	23.19	23.58
	8H	19.92	21.18	20.34	21.57	21.97	21.82	23.08	22.24	23.47	23.87
	12H	19.97	21.18	20.40	21.56	21.99	22.03	23.24	22.46	23.62	24.05
4H	2H	17.78	19.20	18.18	19.55	19.93	18.36	19.78	18.76	20.13	20.51
	3H	19.77	20.97	20.18	21.37	21.77	20.69	21.89	21.10	22.28	22.68
	4H	20.53	21.62	20.96	22.03	22.46	21.72	22.81	22.15	23.22	23.66
	6H	21.07	22.02	21.52	22.46	22.91	22.66	23.61	23.11	24.05	24.50
	8H	21.21	22.11	21.67	22.55	23.01	23.04	23.93	23.50	24.37	24.84
	12H	21.30	22.10	21.78	22.58	23.05	23.31	24.12	23.79	24.59	25.06
8H	4H	20.98	21.87	21.44	22.31	22.78	22.02	22.92	22.48	23.36	23.82
	6H	21.66	22.40	22.15	22.89	23.36	23.11	23.85	23.60	24.34	24.81
	8H	21.88	22.55	22.39	23.05	23.54	23.60	24.27	24.10	24.77	25.25
	12H	22.03	22.62	22.53	23.11	23.67	23.97	24.56	24.48	25.05	25.61
12H	4H	21.06	21.87	21.54	22.34	22.81	22.05	22.86	22.53	23.33	23.80
	6H	21.79	22.46	22.29	22.96	23.45	23.16	23.83	23.67	24.34	24.82
	8H	22.08	22.67	22.58	23.16	23.72	23.71	24.31	24.22	24.80	25.36