

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: P1587739

Luminaire Tested: 22CZSP-SB-49HE-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587739
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-L845
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 4500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

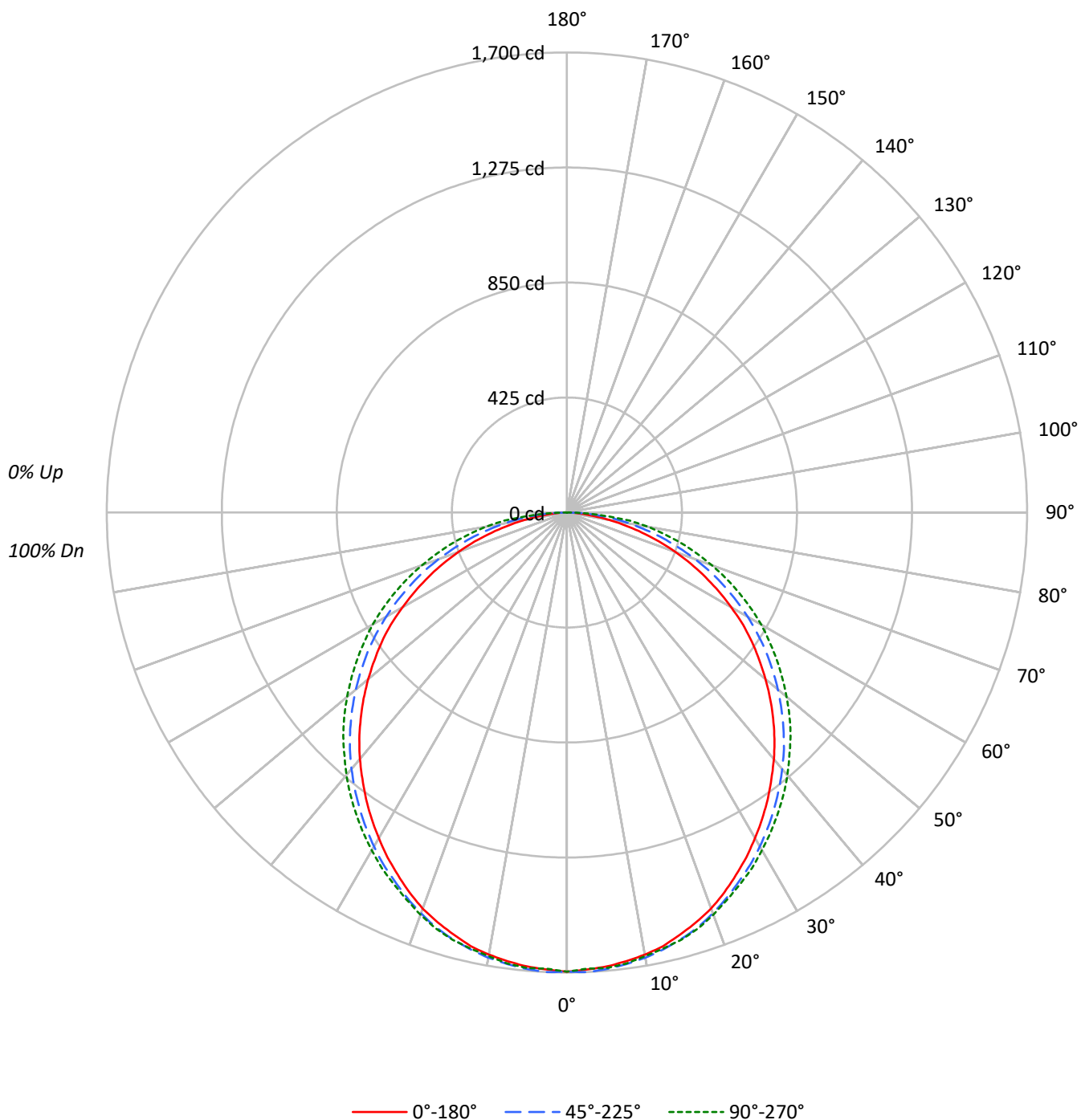
Lumens per Lamp: N/A
Luminaire Lumens: 4952.0 lumens
Efficiency: N/A
Efficacy: 153.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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: P1587739

CATALOG NUMBER: 22CZSP-SB-49HE-L845

Luminous Intensity Polar Plot



TEST NUMBER: P1587739

CATALOG NUMBER: 22CZSP-SB-49HE-L845

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		69
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5314	5314	5314
5°	5294	5324	5311
10°	5275	5312	5292
15°	5236	5290	5297
20°	5190	5253	5270
25°	5106	5196	5233
30°	5025	5154	5211
35°	4944	5104	5192
40°	4863	5060	5179
45°	4771	5012	5175
50°	4667	4958	5162
55°	4560	4904	5161
60°	4391	4831	5192
65°	4186	4737	5195
70°	3906	4606	5210
75°	3475	4438	5300
80°	2855	4252	5500
85°	1883	3992	4969

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5633 cd/sqm

TEST NUMBER: P1587739

CATALOG NUMBER: 22CZSP-SB-49HE-L845

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.5	3.2
10°-20°	459.4	9.3
20°-30°	692.5	14.0
30°-40°	833.9	16.8
40°-50°	871.2	17.6
50°-60°	800.4	16.2
60°-70°	630.3	12.7
70°-80°	386.4	7.8
80°-90°	117.2	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°	1312.4	26.5
0°-40°	2146.4	43.3
0°-60°	3818.1	77.1
0°-90°	4952.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4952.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1697	1697	1697	1697	1697	
5°	1684	1687	1694	1692	1690	160
15°	1615	1621	1632	1638	1634	456
25°	1478	1487	1504	1520	1514	681
35°	1293	1310	1335	1359	1358	809
45°	1077	1100	1132	1163	1169	831
55°	835	859	898	937	945	745
65°	565	594	639	682	701	558
75°	287	321	367	411	438	305
85°	52	78	111	124	138	67
90°	0	0	0	0	0	

TEST NUMBER: P1587739

CATALOG NUMBER: 22CZSP-SB-49HE-L845

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1696.9	1696.9	1696.9	1696.9	1696.9
2.5°	1690.6	1694.8	1700.0	1691.6	1687.4
5°	1684.3	1687.4	1693.7	1691.6	1689.5
7.5°	1672.7	1674.8	1683.2	1683.2	1681.1
10°	1659.1	1663.3	1670.7	1669.6	1664.4
12.5°	1641.3	1644.4	1652.8	1652.8	1649.7
15°	1615.1	1621.4	1631.9	1638.2	1634.0
17.5°	1587.9	1594.1	1607.8	1614.1	1612.0
20°	1557.5	1562.7	1576.3	1585.8	1581.6
22.5°	1519.7	1526.0	1541.7	1552.2	1548.0
25°	1477.8	1487.2	1504.0	1519.7	1514.5
27.5°	1435.9	1446.4	1467.3	1483.0	1480.9
30°	1389.8	1403.4	1425.4	1445.3	1441.1
32.5°	1342.6	1358.3	1381.4	1402.3	1401.3
35°	1293.3	1310.1	1335.3	1359.4	1358.3
37.5°	1240.9	1260.8	1287.1	1313.3	1314.3
40°	1189.6	1208.4	1237.8	1266.1	1267.1
42.5°	1135.1	1155.0	1186.4	1215.8	1216.8
45°	1077.4	1100.5	1131.9	1163.4	1168.6
47.5°	1018.7	1042.8	1075.3	1108.9	1115.2
50°	958.0	983.1	1017.7	1053.3	1059.6
52.5°	896.1	922.3	958.0	993.6	1003.0
55°	835.3	859.4	898.2	937.0	945.4
57.5°	771.4	793.4	835.3	876.2	886.7
60°	701.2	728.4	771.4	812.3	829.0
62.5°	633.0	662.4	706.4	747.3	766.2
65°	564.9	594.3	639.3	682.3	701.2
67.5°	495.7	526.1	574.4	615.2	636.2
70°	426.6	457.0	503.1	547.1	569.1
72.5°	357.4	389.9	435.0	480.0	502.0
75°	287.2	320.7	366.8	410.8	438.1
77.5°	221.1	253.6	299.8	344.8	367.9
80°	158.3	190.8	235.8	280.9	305.0
82.5°	100.6	131.0	175.0	212.8	234.8
85°	52.4	77.6	111.1	123.7	138.3
87.5°	15.7	30.4	43.0	48.2	59.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1587739

CATALOG NUMBER: 22CZSP-SB-49HE-L845

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	17.32	18.98	17.68	19.29	19.61	18.06	19.73	18.43	20.04	20.35
	3H	19.08	20.59	19.46	20.91	21.27	20.16	21.67	20.53	21.99	22.35
	4H	19.70	21.13	20.10	21.47	21.85	21.04	22.47	21.44	22.81	23.19
	6H	20.12	21.44	20.53	21.80	22.19	21.81	23.13	22.22	23.49	23.88
	8H	20.22	21.48	20.65	21.87	22.27	22.12	23.38	22.54	23.77	24.17
	12H	20.27	21.48	20.70	21.87	22.29	22.33	23.54	22.76	23.93	24.35
4H	2H	18.09	19.51	18.48	19.86	20.23	18.67	20.09	19.06	20.44	20.81
	3H	20.08	21.28	20.49	21.67	22.07	20.99	22.19	21.40	22.59	22.99
	4H	20.83	21.92	21.26	22.33	22.77	22.03	23.12	22.46	23.53	23.96
	6H	21.37	22.32	21.82	22.76	23.22	22.96	23.91	23.41	24.35	24.81
	8H	21.52	22.41	21.98	22.85	23.32	23.34	24.24	23.80	24.68	25.14
	12H	21.60	22.41	22.08	22.88	23.35	23.62	24.42	24.10	24.90	25.37
8H	4H	21.29	22.18	21.74	22.62	23.08	22.33	23.22	22.79	23.66	24.13
	6H	21.96	22.71	22.46	23.19	23.67	23.41	24.16	23.91	24.64	25.12
	8H	22.18	22.85	22.69	23.36	23.84	23.90	24.57	24.41	25.07	25.56
	12H	22.33	22.92	22.84	23.41	23.97	24.28	24.87	24.78	25.36	25.92
12H	4H	21.37	22.17	21.85	22.65	23.12	22.36	23.16	22.84	23.63	24.10
	6H	22.09	22.76	22.60	23.27	23.75	23.47	24.14	23.97	24.64	25.13
	8H	22.38	22.97	22.89	23.46	24.02	24.02	24.61	24.52	25.10	25.66