

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: P1587755

Luminaire Tested: 22CZSP-SB-52-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587755
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-52-L835
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

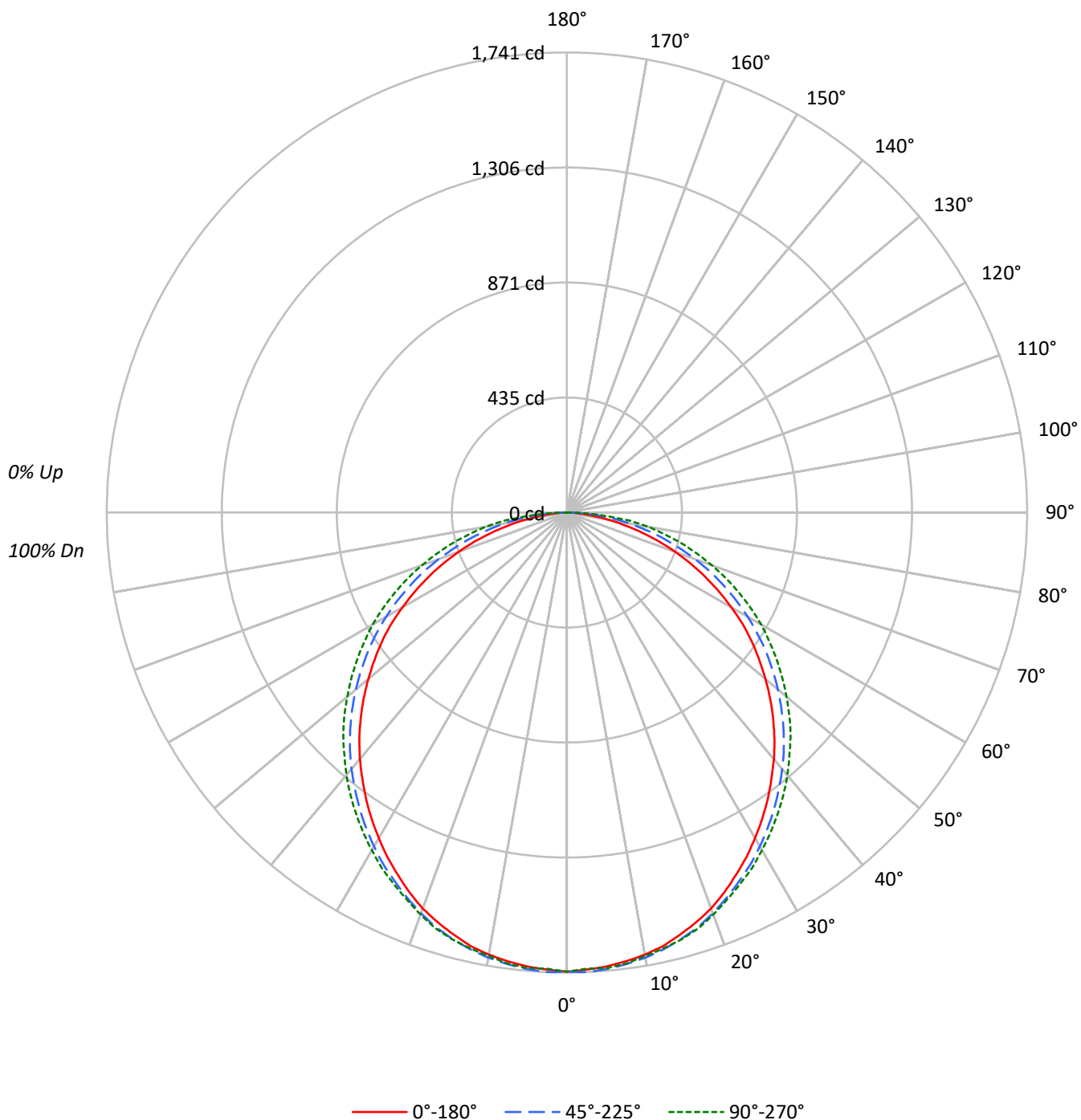
Lumens per Lamp: N/A
Luminaire Lumens: 5071.0 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37.2
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: P1587755

CATALOG NUMBER: 22CZSP-SB-52-L835

Luminous Intensity Polar Plot



TEST NUMBER: P1587755

CATALOG NUMBER: 22CZSP-SB-52-L835

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	30	10	50	30	10
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°	5441	5441	5441
5°	5421	5452	5438
10°	5402	5440	5419
15°	5362	5417	5424
20°	5315	5379	5397
25°	5229	5321	5358
30°	5146	5278	5336
35°	5063	5227	5317
40°	4980	5181	5304
45°	4886	5133	5299
50°	4779	5077	5286
55°	4670	5021	5285
60°	4497	4947	5317
65°	4286	4851	5320
70°	3999	4717	5336
75°	3558	4544	5427
80°	2923	4355	5632
85°	1929	4089	5091

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5767 cd/sqm

TEST NUMBER: P1587755

CATALOG NUMBER: 22CZSP-SB-52-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.4	3.2
10°-20°	470.5	9.3
20°-30°	709.1	14.0
30°-40°	854.0	16.8
40°-50°	892.2	17.6
50°-60°	819.7	16.2
60°-70°	645.5	12.7
70°-80°	395.7	7.8
80°-90°	120.0	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°	1344.0	26.5
0°-40°	2198.0	43.3
0°-60°	3909.8	77.1
0°-90°	5071.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5071.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1738	1738	1738	1738	1738	
5°	1725	1728	1734	1732	1730	164
15°	1654	1660	1671	1678	1673	467
25°	1513	1523	1540	1556	1551	698
35°	1324	1342	1367	1392	1391	828
45°	1103	1127	1159	1191	1197	851
55°	855	880	920	960	968	763
65°	578	608	655	699	718	572
75°	294	328	376	421	449	313
85°	54	79	114	127	142	69
90°	0	0	0	0	0	

TEST NUMBER: P1587755

CATALOG NUMBER: 22CZSP-SB-52-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1737.6	1737.6	1737.6	1737.6	1737.6
2.5°	1731.2	1735.5	1740.8	1732.3	1728.0
5°	1724.7	1728.0	1734.4	1732.3	1730.1
7.5°	1712.9	1715.1	1723.7	1723.7	1721.5
10°	1699.0	1703.3	1710.8	1709.7	1704.4
12.5°	1680.7	1684.0	1692.6	1692.6	1689.3
15°	1653.9	1660.4	1671.1	1677.5	1673.2
17.5°	1626.0	1632.4	1646.4	1652.8	1650.7
20°	1594.9	1600.2	1614.2	1623.9	1619.6
22.5°	1556.2	1562.7	1578.8	1589.5	1585.2
25°	1513.3	1523.0	1540.1	1556.2	1550.9
27.5°	1470.4	1481.1	1502.6	1518.7	1516.5
30°	1423.2	1437.1	1459.7	1480.0	1475.8
32.5°	1374.9	1391.0	1414.6	1436.0	1435.0
35°	1324.4	1341.6	1367.3	1392.0	1391.0
37.5°	1270.8	1291.1	1318.0	1344.8	1345.9
40°	1218.2	1237.5	1267.5	1296.5	1297.6
42.5°	1162.4	1182.7	1214.9	1245.0	1246.1
45°	1103.3	1126.9	1159.1	1191.3	1196.7
47.5°	1043.2	1067.9	1101.2	1135.5	1142.0
50°	981.0	1006.7	1042.1	1078.6	1085.1
52.5°	917.6	944.5	981.0	1017.5	1027.1
55°	855.4	880.1	919.8	959.5	968.1
57.5°	789.9	812.5	855.4	897.3	908.0
60°	718.0	745.9	789.9	831.8	849.0
62.5°	648.3	678.3	723.4	765.2	784.6
65°	578.5	608.5	654.7	698.7	718.0
67.5°	507.7	538.8	588.2	630.0	651.5
70°	436.8	467.9	515.2	560.2	582.8
72.5°	366.0	399.3	445.4	491.6	514.1
75°	294.1	328.4	375.6	420.7	448.6
77.5°	226.5	259.7	307.0	353.1	376.7
80°	162.1	195.3	241.5	287.6	312.3
82.5°	103.0	134.2	179.2	217.9	240.4
85°	53.7	79.4	113.8	126.6	141.7
87.5°	16.1	31.1	44.0	49.4	61.2
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1587755

CATALOG NUMBER: 22CZSP-SB-52-L835

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	17.40	19.06	17.76	19.38	19.69	18.15	19.81	18.51	20.12	20.44
	3H	19.16	20.67	19.54	21.00	21.35	20.24	21.75	20.62	22.07	22.43
	4H	19.79	21.21	20.18	21.56	21.93	21.13	22.55	21.52	22.89	23.27
	6H	20.20	21.52	20.61	21.88	22.27	21.89	23.21	22.30	23.58	23.97
	8H	20.30	21.57	20.73	21.96	22.35	22.20	23.47	22.63	23.85	24.25
	12H	20.36	21.57	20.79	21.95	22.38	22.42	23.63	22.85	24.01	24.44
4H	2H	18.17	19.59	18.57	19.94	20.31	18.75	20.17	19.15	20.52	20.89
	3H	20.16	21.36	20.57	21.76	22.16	21.08	22.28	21.49	22.67	23.07
	4H	20.92	22.00	21.35	22.42	22.85	22.11	23.20	22.54	23.61	24.05
	6H	21.45	22.41	21.91	22.84	23.30	23.04	23.99	23.49	24.43	24.89
	8H	21.60	22.49	22.06	22.93	23.40	23.43	24.32	23.88	24.76	25.22
	12H	21.69	22.49	22.16	22.96	23.43	23.70	24.51	24.18	24.98	25.45
8H	4H	21.37	22.26	21.83	22.70	23.17	22.41	23.30	22.87	23.75	24.21
	6H	22.05	22.79	22.54	23.28	23.75	23.50	24.24	23.99	24.73	25.20
	8H	22.27	22.94	22.77	23.44	23.92	23.98	24.65	24.49	25.16	25.64
	12H	22.41	23.01	22.92	23.50	24.05	24.36	24.95	24.86	25.44	26.00
12H	4H	21.45	22.26	21.93	22.73	23.20	22.44	23.24	22.92	23.72	24.19
	6H	22.17	22.84	22.68	23.35	23.83	23.55	24.22	24.06	24.72	25.21
	8H	22.47	23.06	22.97	23.55	24.11	24.10	24.69	24.61	25.18	25.74