

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: P1587822

Luminaire Tested: 22CZSP-SB-60HE-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587822
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-60HE-L930-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 6700 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

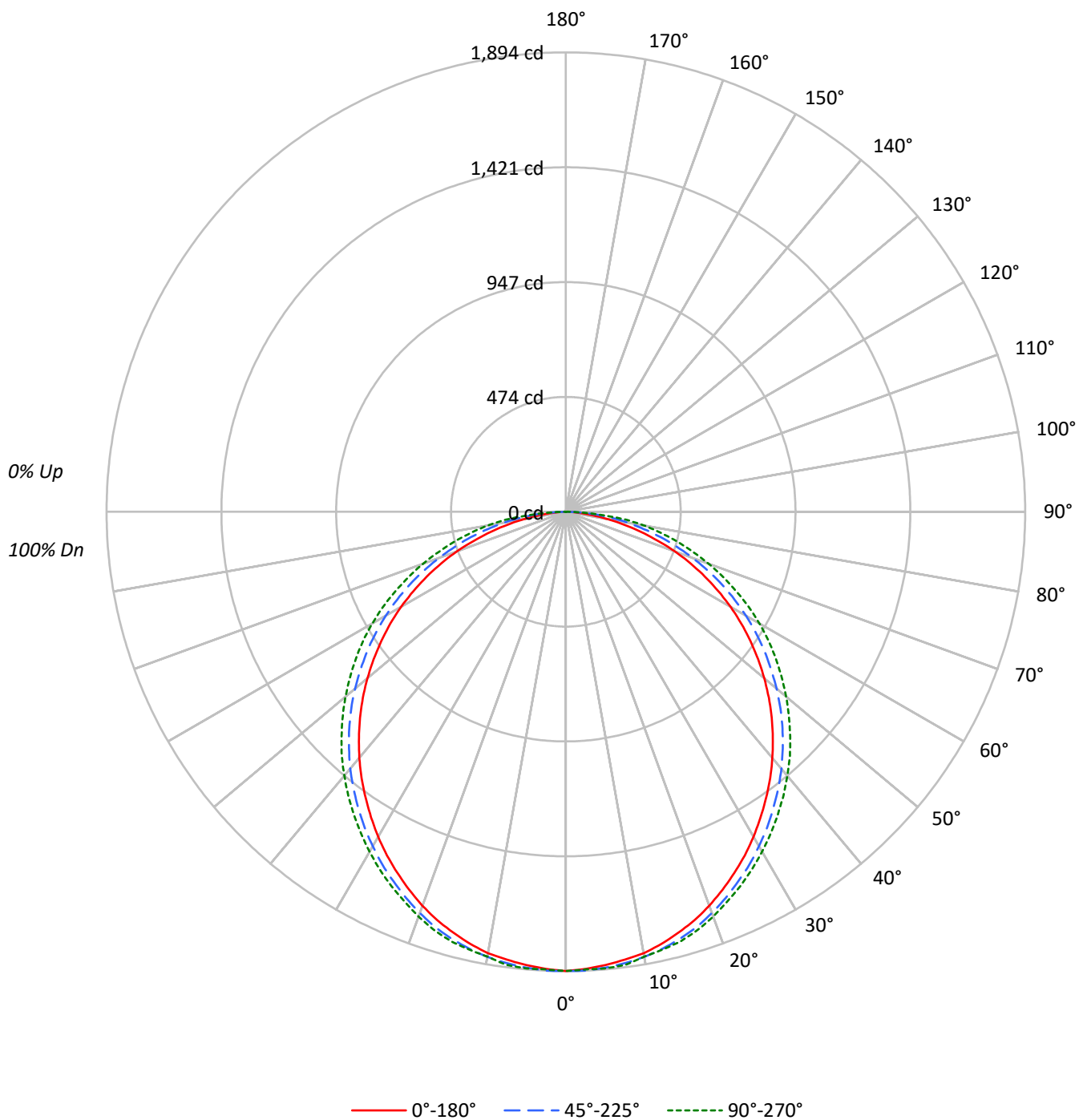
Lumens per Lamp: N/A
Luminaire Lumens: 5508.0 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 41.5
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: P1587822

CATALOG NUMBER: 22CZSP-SB-60HE-L930-S

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°	5929	5929	5929
5°	5896	5929	5940
10°	5877	5926	5923
15°	5823	5908	5942
20°	5761	5867	5919
25°	5678	5809	5883
30°	5595	5758	5852
35°	5503	5703	5825
40°	5415	5652	5807
45°	5315	5593	5793
50°	5201	5524	5778
55°	5072	5453	5770
60°	4912	5373	5773
65°	4688	5259	5742
70°	4383	5099	5728
75°	3885	4902	5748
80°	3163	4658	5918
85°	2044	4301	5109

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5998 cd/sqm

TEST NUMBER: P1587822

CATALOG NUMBER: 22CZSP-SB-60HE-L930-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.2	3.3
10°-20°	513.1	9.3
20°-30°	773.7	14.0
30°-40°	930.9	16.9
40°-50°	971.0	17.6
50°-60°	890.0	16.2
60°-70°	698.9	12.7
70°-80°	425.4	7.7
80°-90°	125.8	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°	1466.0	26.6
0°-40°	2396.9	43.5
0°-60°	4257.9	77.3
0°-90°	5508.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5508.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1894	1894	1894	1894	1894	
5°	1876	1888	1886	1884	1890	178
15°	1796	1814	1822	1825	1833	507
25°	1643	1666	1681	1692	1703	757
35°	1440	1462	1492	1513	1524	901
45°	1200	1225	1263	1293	1308	926
55°	929	953	999	1039	1057	830
65°	633	656	710	757	775	626
75°	321	351	405	454	475	340
85°	57	81	120	134	142	74
90°	0	0	0	0	0	

TEST NUMBER: P1587822

CATALOG NUMBER: 22CZSP-SB-60HE-L930-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1893.5	1893.5	1893.5	1893.5	1893.5
2.5°	1886.4	1895.8	1893.5	1885.2	1888.7
5°	1875.7	1887.5	1886.4	1884.0	1889.9
7.5°	1862.7	1875.7	1876.9	1876.9	1884.0
10°	1848.4	1861.5	1863.8	1860.3	1862.7
12.5°	1824.7	1840.1	1844.9	1844.9	1848.4
15°	1796.3	1814.1	1822.4	1824.7	1833.0
17.5°	1765.5	1784.4	1795.1	1801.0	1808.1
20°	1728.8	1748.9	1760.8	1767.9	1776.2
22.5°	1687.3	1709.8	1722.8	1729.9	1739.4
25°	1643.4	1666.0	1681.4	1692.0	1702.7
27.5°	1597.2	1618.6	1639.9	1652.9	1662.4
30°	1547.5	1570.0	1592.5	1609.1	1618.6
32.5°	1494.2	1517.8	1543.9	1561.7	1572.4
35°	1439.6	1462.2	1491.8	1513.1	1523.8
37.5°	1384.0	1407.7	1438.5	1461.0	1474.0
40°	1324.7	1349.6	1382.8	1407.7	1420.7
42.5°	1263.1	1286.8	1323.5	1352.0	1367.4
45°	1200.3	1225.2	1263.1	1292.7	1308.1
47.5°	1135.1	1158.8	1200.3	1234.7	1247.7
50°	1067.6	1090.1	1133.9	1170.7	1186.1
52.5°	998.9	1022.6	1066.4	1105.5	1122.1
55°	929.0	952.7	998.9	1039.2	1056.9
57.5°	857.9	881.6	929.0	970.4	991.8
60°	784.4	808.1	857.9	900.5	921.8
62.5°	708.6	733.4	784.4	828.2	850.8
65°	632.7	656.4	709.8	757.1	774.9
67.5°	556.9	580.6	632.7	680.1	701.5
70°	478.7	505.9	556.9	606.7	625.6
72.5°	396.9	427.7	478.7	530.8	549.8
75°	321.1	350.7	405.2	453.8	475.1
77.5°	246.5	278.4	329.4	379.2	400.5
80°	175.4	206.2	258.3	305.7	328.2
82.5°	111.4	138.6	190.8	233.4	250.0
85°	56.9	80.6	119.7	133.9	142.2
87.5°	16.6	28.4	42.7	53.3	59.2
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1587822

CATALOG NUMBER: 22CZSP-SB-60HE-L930-S

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	17.68	19.34	18.05	19.66	19.97	18.42	20.08	18.78	20.39	20.71
	3H	19.45	20.96	19.83	21.28	21.64	20.50	22.00	20.87	22.33	22.69
	4H	20.07	21.49	20.47	21.84	22.21	21.36	22.78	21.76	23.13	23.50
	6H	20.48	21.80	20.89	22.16	22.55	22.11	23.43	22.52	23.79	24.18
	8H	20.58	21.84	21.01	22.23	22.63	22.40	23.66	22.83	24.05	24.45
	12H	20.63	21.84	21.06	22.22	22.65	22.60	23.80	23.03	24.19	24.61
4H	2H	18.45	19.87	18.85	20.22	20.59	19.02	20.44	19.42	20.79	21.16
	3H	20.44	21.64	20.85	22.03	22.43	21.34	22.53	21.75	22.93	23.33
	4H	21.19	22.27	21.62	22.68	23.12	22.35	23.44	22.79	23.85	24.29
	6H	21.71	22.66	22.17	23.10	23.56	23.26	24.21	23.71	24.65	25.10
	8H	21.86	22.75	22.31	23.19	23.65	23.63	24.52	24.09	24.96	25.42
	12H	21.94	22.74	22.42	23.21	23.68	23.88	24.68	24.36	25.16	25.62
8H	4H	21.63	22.52	22.09	22.96	23.43	22.65	23.54	23.11	23.98	24.45
	6H	22.29	23.04	22.79	23.52	24.00	23.71	24.45	24.20	24.94	25.41
	8H	22.50	23.17	23.01	23.67	24.16	24.18	24.85	24.69	25.35	25.84
	12H	22.64	23.23	23.15	23.72	24.28	24.53	25.12	25.04	25.61	26.17
12H	4H	21.71	22.51	22.19	22.99	23.46	22.68	23.48	23.16	23.95	24.42
	6H	22.42	23.09	22.92	23.59	24.07	23.76	24.43	24.27	24.93	25.42
	8H	22.70	23.28	23.20	23.77	24.33	24.30	24.89	24.80	25.38	25.94