

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: P1587830

Luminaire Tested: 22CZSP-SB-60HE-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587830
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-L950-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 6700 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

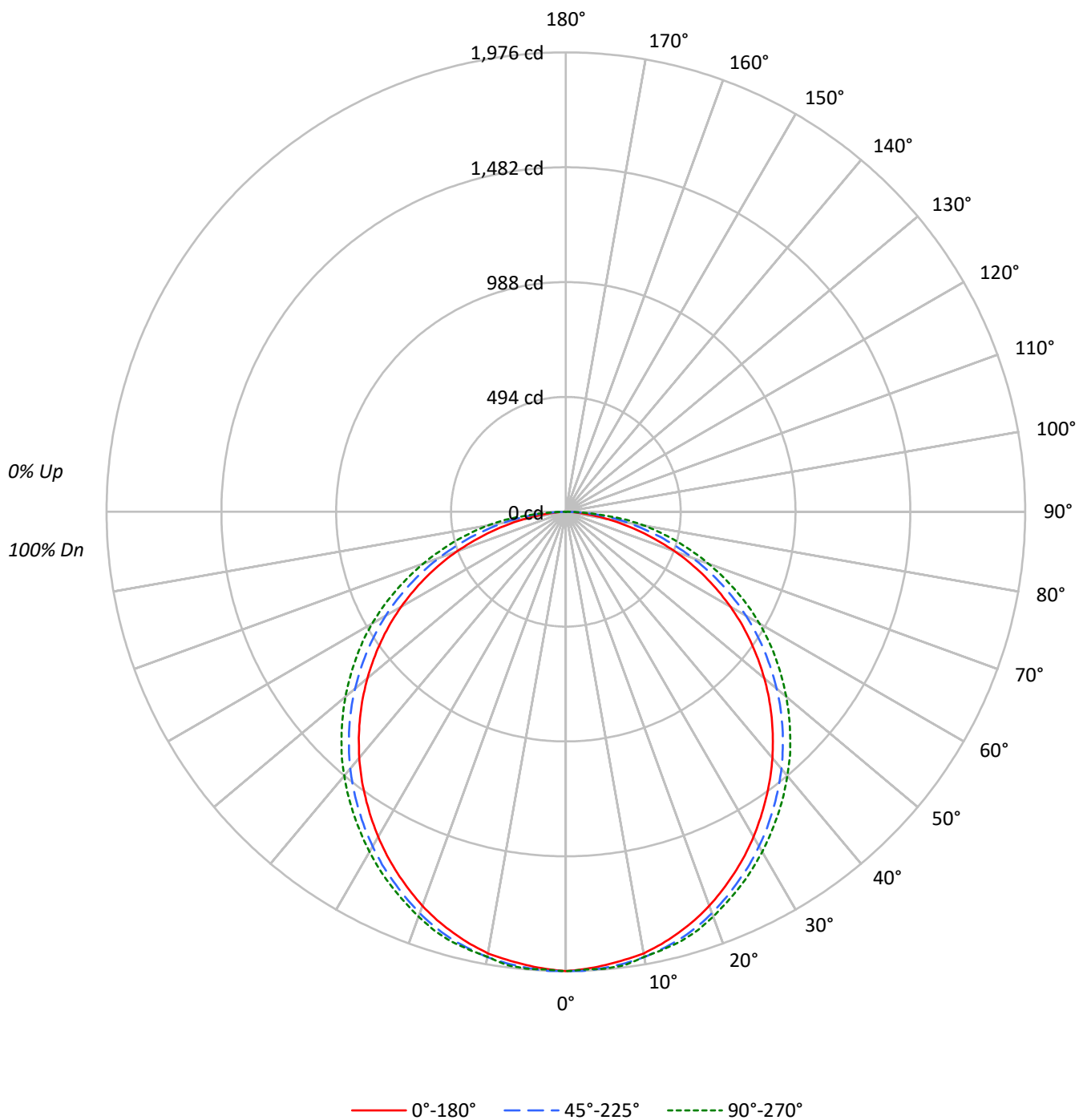
Lumens per Lamp: N/A
Luminaire Lumens: 5748.0 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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

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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	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°	6188	6188	6188
5°	6153	6188	6200
10°	6134	6185	6181
15°	6077	6165	6201
20°	6012	6123	6176
25°	5926	6062	6139
30°	5839	6009	6107
35°	5743	5951	6079
40°	5651	5898	6060
45°	5547	5837	6045
50°	5427	5765	6030
55°	5292	5691	6022
60°	5127	5606	6025
65°	4892	5488	5992
70°	4574	5321	5978
75°	4054	5116	5998
80°	3300	4862	6176
85°	2134	4487	5332

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6259 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.0	3.3
10°-20°	535.5	9.3
20°-30°	807.4	14.0
30°-40°	971.5	16.9
40°-50°	1013.3	17.6
50°-60°	928.8	16.2
60°-70°	729.4	12.7
70°-80°	443.9	7.7
80°-90°	131.3	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°	1529.8	26.6
0°-40°	2501.3	43.5
0°-60°	4443.4	77.3
0°-90°	5748.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5748.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1976	1976	1976	1976	1976	
5°	1957	1970	1968	1966	1972	186
15°	1875	1893	1902	1904	1913	529
25°	1715	1739	1755	1766	1777	790
35°	1502	1526	1557	1579	1590	940
45°	1253	1279	1318	1349	1365	966
55°	969	994	1042	1084	1103	866
65°	660	685	741	790	809	653
75°	335	366	423	474	496	355
85°	59	84	125	140	148	77
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1976.0	1976.0	1976.0	1976.0	1976.0
2.5°	1968.5	1978.4	1976.0	1967.3	1971.0
5°	1957.4	1969.8	1968.5	1966.1	1972.3
7.5°	1943.8	1957.4	1958.7	1958.7	1966.1
10°	1929.0	1942.6	1945.1	1941.3	1943.8
12.5°	1904.2	1920.3	1925.3	1925.3	1929.0
15°	1874.6	1893.1	1901.8	1904.2	1912.9
17.5°	1842.4	1862.2	1873.3	1879.5	1886.9
20°	1804.1	1825.1	1837.5	1844.9	1853.5
22.5°	1760.8	1784.3	1797.9	1805.3	1815.2
25°	1715.1	1738.6	1754.6	1765.8	1776.9
27.5°	1666.8	1689.1	1711.3	1724.9	1734.8
30°	1614.9	1638.4	1661.9	1679.2	1689.1
32.5°	1559.3	1584.0	1611.2	1629.7	1640.9
35°	1502.4	1525.9	1556.8	1579.0	1590.2
37.5°	1444.3	1469.0	1501.1	1524.6	1538.2
40°	1382.4	1408.4	1443.0	1469.0	1482.6
42.5°	1318.1	1342.9	1381.2	1410.9	1426.9
45°	1252.6	1278.6	1318.1	1349.0	1365.1
47.5°	1184.6	1209.3	1252.6	1288.5	1302.1
50°	1114.1	1137.6	1183.4	1221.7	1237.8
52.5°	1042.4	1067.1	1112.9	1153.7	1171.0
55°	969.4	994.2	1042.4	1084.4	1103.0
57.5°	895.2	920.0	969.4	1012.7	1035.0
60°	818.6	843.3	895.2	939.8	962.0
62.5°	739.4	765.4	818.6	864.3	887.8
65°	660.3	685.0	740.7	790.1	808.7
67.5°	581.2	605.9	660.3	709.8	732.0
70°	499.6	528.0	581.2	633.1	652.9
72.5°	414.2	446.4	499.6	554.0	573.7
75°	335.1	366.0	422.9	473.6	495.8
77.5°	257.2	290.6	343.8	395.7	417.9
80°	183.0	215.2	269.6	319.0	342.5
82.5°	116.2	144.7	199.1	243.6	260.9
85°	59.4	84.1	124.9	139.7	148.4
87.5°	17.3	29.7	44.5	55.6	61.8
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	17.83	19.49	18.20	19.81	20.12	18.57	20.23	18.93	20.54	20.85
	3H	19.60	21.11	19.98	21.43	21.79	20.65	22.15	21.02	22.48	22.84
	4H	20.22	21.64	20.62	21.99	22.36	21.51	22.93	21.91	23.28	23.65
	6H	20.63	21.95	21.04	22.31	22.70	22.26	23.57	22.67	23.94	24.33
	8H	20.73	21.99	21.15	22.38	22.78	22.55	23.81	22.97	24.20	24.60
	12H	20.78	21.99	21.21	22.37	22.80	22.74	23.95	23.17	24.33	24.76
4H	2H	18.60	20.02	19.00	20.37	20.74	19.17	20.59	19.57	20.94	21.31
	3H	20.59	21.79	21.00	22.18	22.58	21.48	22.68	21.89	23.08	23.48
	4H	21.33	22.42	21.76	22.83	23.26	22.50	23.59	22.93	24.00	24.43
	6H	21.86	22.81	22.32	23.25	23.71	23.41	24.36	23.86	24.80	25.25
	8H	22.00	22.89	22.46	23.34	23.80	23.78	24.66	24.23	25.11	25.57
	12H	22.08	22.89	22.56	23.36	23.83	24.03	24.83	24.51	25.30	25.77
8H	4H	21.78	22.67	22.24	23.11	23.57	22.80	23.69	23.26	24.13	24.60
	6H	22.44	23.18	22.93	23.67	24.15	23.86	24.60	24.35	25.09	25.56
	8H	22.65	23.32	23.16	23.82	24.31	24.33	25.00	24.84	25.50	25.99
	12H	22.79	23.38	23.29	23.87	24.43	24.68	25.27	25.19	25.76	26.32
12H	4H	21.86	22.66	22.34	23.14	23.60	22.83	23.63	23.31	24.10	24.57
	6H	22.57	23.23	23.07	23.74	24.22	23.91	24.58	24.42	25.08	25.57
	8H	22.84	23.43	23.35	23.92	24.48	24.45	25.04	24.95	25.53	26.08