

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: P1587812

Luminaire Tested: 22CZSP-SB-60HE-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587812
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-L830-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 6700 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

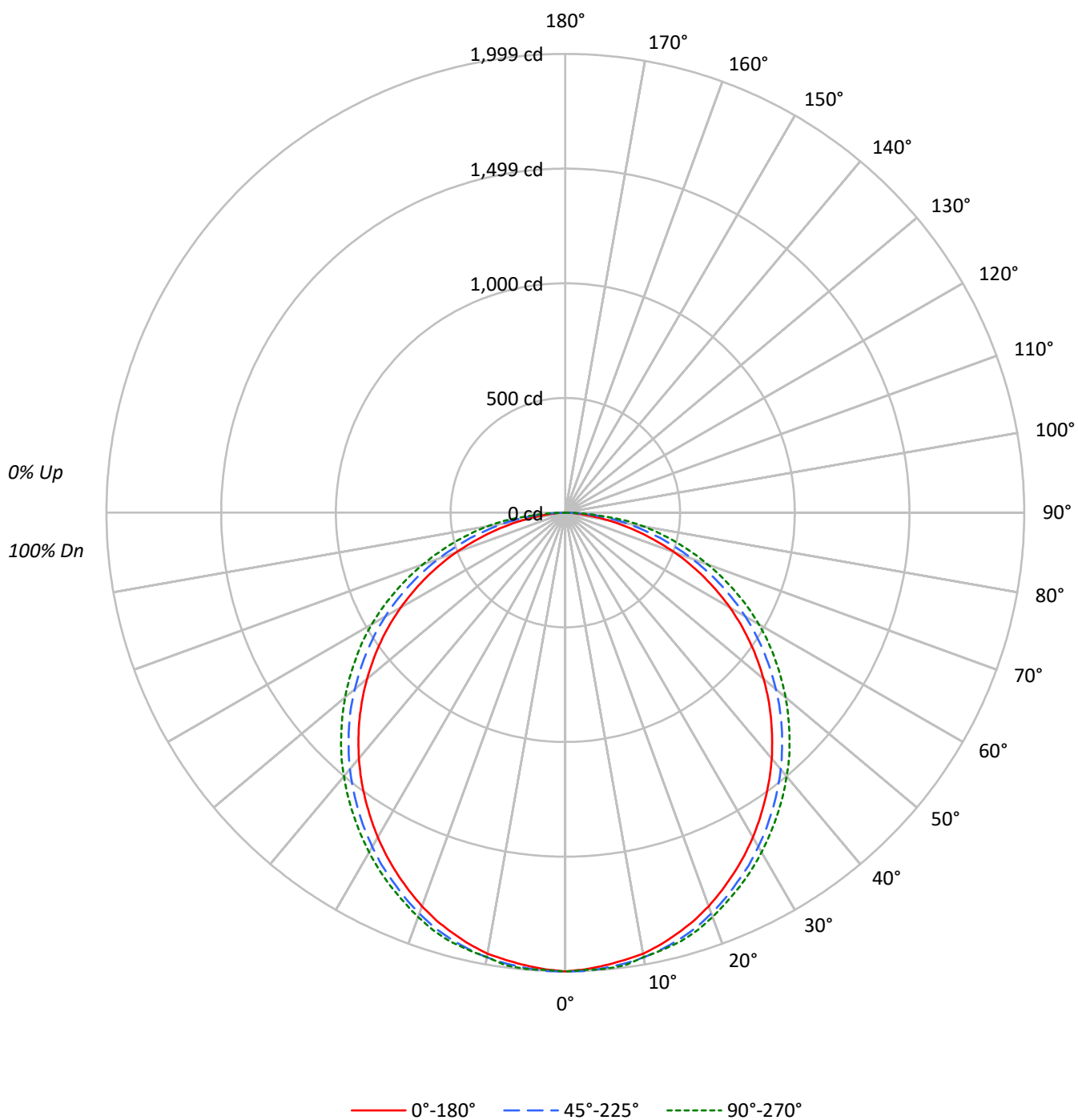
Lumens per Lamp: N/A
Luminaire Lumens: 5816.0 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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
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	94	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	64	87	77	69	63	74	67	62		71	66	61		69
4	82	70	61	54	79	68	60	53	66	58	53		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	45	39		50
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6260	6260	6260
5°	6226	6261	6273
10°	6206	6258	6254
15°	6149	6238	6274
20°	6083	6195	6250
25°	5996	6134	6212
30°	5908	6080	6180
35°	5811	6021	6151
40°	5718	5968	6132
45°	5613	5906	6117
50°	5492	5833	6101
55°	5355	5758	6093
60°	5187	5673	6096
65°	4950	5553	6063
70°	4628	5383	6048
75°	4103	5177	6070
80°	3340	4919	6250
85°	2159	4541	5393

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6333 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.2	3.3
10°-20°	541.8	9.3
20°-30°	816.9	14.0
30°-40°	982.9	16.9
40°-50°	1025.3	17.6
50°-60°	939.8	16.2
60°-70°	738.0	12.7
70°-80°	449.2	7.7
80°-90°	132.9	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°	1547.9	26.6
0°-40°	2530.9	43.5
0°-60°	4496.0	77.3
0°-90°	5816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5816.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1999	1999	1999	1999	1999	
5°	1981	1993	1992	1989	1996	188
15°	1897	1916	1924	1927	1936	535
25°	1735	1759	1775	1787	1798	800
35°	1520	1544	1575	1598	1609	951
45°	1267	1294	1334	1365	1381	977
55°	981	1006	1055	1097	1116	876
65°	668	693	749	800	818	661
75°	339	370	428	479	502	359
85°	60	85	126	141	150	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1999.3	1999.3	1999.3	1999.3	1999.3
2.5°	1991.8	2001.8	1999.3	1990.6	1994.3
5°	1980.6	1993.1	1991.8	1989.3	1995.6
7.5°	1966.8	1980.6	1981.8	1981.8	1989.3
10°	1951.8	1965.6	1968.1	1964.3	1966.8
12.5°	1926.8	1943.0	1948.0	1948.0	1951.8
15°	1896.7	1915.5	1924.3	1926.8	1935.5
17.5°	1864.2	1884.2	1895.5	1901.7	1909.3
20°	1825.4	1846.7	1859.2	1866.7	1875.5
22.5°	1781.6	1805.4	1819.2	1826.7	1836.7
25°	1735.3	1759.1	1775.4	1786.6	1797.9
27.5°	1686.6	1709.1	1731.6	1745.4	1755.4
30°	1634.0	1657.8	1681.5	1699.1	1709.1
32.5°	1577.7	1602.7	1630.2	1649.0	1660.3
35°	1520.1	1543.9	1575.2	1597.7	1609.0
37.5°	1461.3	1486.4	1518.9	1542.7	1556.4
40°	1398.8	1425.1	1460.1	1486.4	1500.1
42.5°	1333.7	1358.8	1397.5	1427.6	1443.8
45°	1267.4	1293.7	1333.7	1365.0	1381.3
47.5°	1198.6	1223.6	1267.4	1303.7	1317.5
50°	1127.3	1151.1	1197.4	1236.1	1252.4
52.5°	1054.7	1079.7	1126.0	1167.3	1184.8
55°	980.9	1005.9	1054.7	1097.3	1116.0
57.5°	905.8	930.9	980.9	1024.7	1047.2
60°	828.3	853.3	905.8	950.9	973.4
62.5°	748.2	774.5	828.3	874.6	898.3
65°	668.1	693.1	749.4	799.5	818.3
67.5°	588.0	613.1	668.1	718.2	740.7
70°	505.5	534.2	588.0	640.6	660.6
72.5°	419.1	451.7	505.5	560.5	580.5
75°	339.1	370.3	427.9	479.2	501.7
77.5°	260.2	294.0	347.8	400.4	422.9
80°	185.2	217.7	272.8	322.8	346.6
82.5°	117.6	146.4	201.4	246.5	264.0
85°	60.1	85.1	126.4	141.4	150.1
87.5°	17.5	30.0	45.0	56.3	62.6
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	17.87	19.53	18.24	19.85	20.16	18.61	20.27	18.97	20.58	20.90
	3H	19.64	21.15	20.02	21.47	21.83	20.69	22.19	21.06	22.52	22.88
	4H	20.26	21.68	20.66	22.03	22.40	21.55	22.97	21.95	23.32	23.69
	6H	20.67	21.99	21.08	22.35	22.74	22.30	23.61	22.71	23.98	24.37
	8H	20.77	22.03	21.20	22.42	22.82	22.59	23.85	23.02	24.24	24.64
	12H	20.82	22.03	21.25	22.41	22.84	22.79	23.99	23.21	24.37	24.80
4H	2H	18.64	20.06	19.04	20.41	20.78	19.21	20.63	19.61	20.98	21.35
	3H	20.63	21.83	21.04	22.22	22.62	21.53	22.72	21.93	23.12	23.52
	4H	21.37	22.46	21.81	22.87	23.31	22.54	23.63	22.97	24.04	24.47
	6H	21.90	22.85	22.36	23.29	23.75	23.45	24.40	23.90	24.84	25.29
	8H	22.04	22.93	22.50	23.38	23.84	23.82	24.71	24.27	25.15	25.61
	12H	22.13	22.93	22.60	23.40	23.87	24.07	24.87	24.55	25.35	25.81
8H	4H	21.82	22.71	22.28	23.15	23.62	22.84	23.73	23.30	24.17	24.64
	6H	22.48	23.23	22.98	23.71	24.19	23.90	24.64	24.39	25.13	25.60
	8H	22.69	23.36	23.20	23.86	24.35	24.37	25.04	24.88	25.54	26.03
	12H	22.83	23.42	23.33	23.91	24.47	24.72	25.31	25.23	25.80	26.36
12H	4H	21.90	22.70	22.38	23.18	23.64	22.87	23.67	23.35	24.14	24.61
	6H	22.61	23.27	23.11	23.78	24.26	23.95	24.62	24.46	25.12	25.61
	8H	22.88	23.47	23.39	23.96	24.52	24.49	25.08	24.99	25.57	26.13