

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: P1587829

Luminaire Tested: 22CZSP-SB-60HE-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587829
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-60HE-L945
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 6700 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

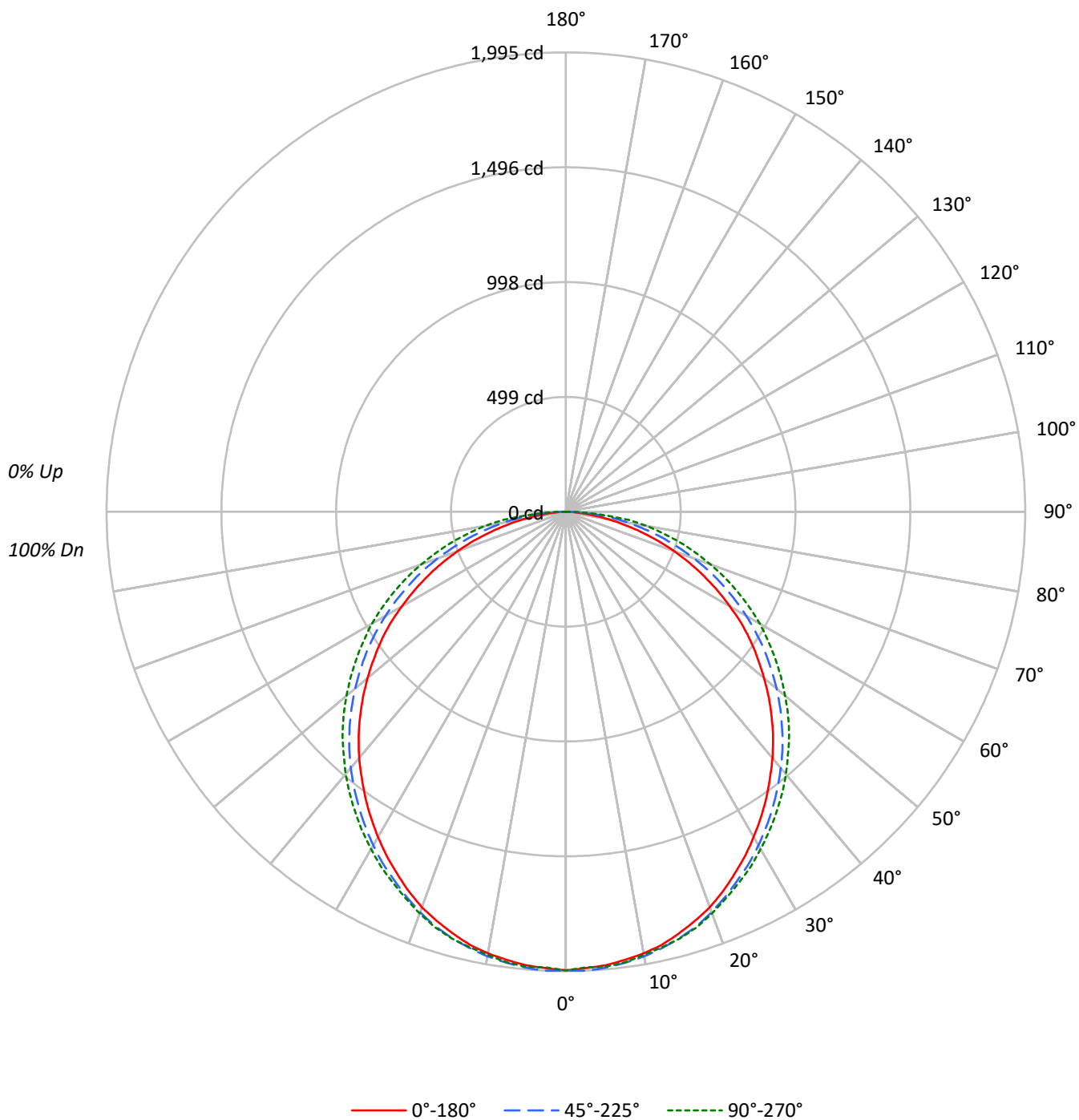
Lumens per Lamp: N/A
Luminaire Lumens: 5812.0 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	6236	6236	6236
5°	6214	6248	6233
10°	6192	6235	6211
15°	6145	6209	6217
20°	6091	6165	6185
25°	5992	6099	6141
30°	5898	6049	6116
35°	5802	5991	6094
40°	5707	5939	6079
45°	5600	5883	6074
50°	5477	5818	6058
55°	5352	5755	6058
60°	5154	5670	6094
65°	4912	5560	6097
70°	4584	5406	6115
75°	4077	5208	6221
80°	3349	4991	6456
85°	2210	4685	5835

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6609 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.4	3.2
10°-20°	539.2	9.3
20°-30°	812.7	14.0
30°-40°	978.8	16.8
40°-50°	1022.6	17.6
50°-60°	939.4	16.2
60°-70°	739.8	12.7
70°-80°	453.6	7.8
80°-90°	137.5	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°	1540.4	26.5
0°-40°	2519.1	43.3
0°-60°	4481.1	77.1
0°-90°	5812.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5812.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1992	1992	1992	1992	1992	
5°	1977	1980	1988	1985	1983	188
15°	1896	1903	1915	1923	1918	535
25°	1734	1746	1765	1784	1778	800
35°	1518	1538	1567	1595	1594	949
45°	1264	1292	1328	1365	1372	975
55°	980	1009	1054	1100	1110	875
65°	663	698	750	801	823	655
75°	337	376	430	482	514	358
85°	62	91	130	145	162	79
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1991.5	1991.5	1991.5	1991.5	1991.5
2.5°	1984.2	1989.1	1995.2	1985.4	1980.5
5°	1976.8	1980.5	1987.8	1985.4	1982.9
7.5°	1963.2	1965.7	1975.5	1975.5	1973.1
10°	1947.3	1952.2	1960.8	1959.6	1953.4
12.5°	1926.3	1930.0	1939.9	1939.9	1936.2
15°	1895.6	1903.0	1915.3	1922.7	1917.7
17.5°	1863.6	1871.0	1887.0	1894.4	1891.9
20°	1827.9	1834.1	1850.1	1861.1	1856.2
22.5°	1783.7	1791.0	1809.5	1821.8	1816.9
25°	1734.4	1745.5	1765.2	1783.7	1777.5
27.5°	1685.2	1697.5	1722.1	1740.6	1738.1
30°	1631.1	1647.1	1672.9	1696.3	1691.4
32.5°	1575.8	1594.2	1621.3	1645.9	1644.7
35°	1517.9	1537.6	1567.2	1595.4	1594.2
37.5°	1456.4	1479.8	1510.6	1541.3	1542.6
40°	1396.2	1418.3	1452.8	1486.0	1487.2
42.5°	1332.2	1355.6	1392.5	1426.9	1428.2
45°	1264.5	1291.6	1328.5	1365.4	1371.6
47.5°	1195.7	1224.0	1262.1	1301.5	1308.8
50°	1124.3	1153.8	1194.4	1236.3	1243.6
52.5°	1051.7	1082.5	1124.3	1166.1	1177.2
55°	980.4	1008.7	1054.2	1099.7	1109.6
57.5°	905.4	931.2	980.4	1028.4	1040.7
60°	822.9	854.9	905.4	953.3	973.0
62.5°	743.0	777.4	829.1	877.1	899.2
65°	663.0	697.5	750.4	800.8	822.9
67.5°	581.8	617.5	674.1	722.1	746.7
70°	500.7	536.3	590.5	642.1	667.9
72.5°	419.5	457.6	510.5	563.4	589.2
75°	337.0	376.4	430.5	482.2	514.2
77.5°	259.6	297.7	351.8	404.7	431.8
80°	185.7	223.9	276.8	329.7	358.0
82.5°	118.1	153.8	205.4	249.7	275.5
85°	61.5	91.0	130.4	145.2	162.4
87.5°	18.5	35.7	50.4	56.6	70.1
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	19.54	18.24	19.85	20.16	18.62	20.28	18.98	20.60	20.91
	3H	19.64	21.14	20.01	21.47	21.83	20.71	22.22	21.09	22.55	22.91
	4H	20.26	21.68	20.66	22.03	22.40	21.60	23.02	22.00	23.37	23.74
	6H	20.67	21.99	21.08	22.36	22.75	22.37	23.69	22.78	24.05	24.44
	8H	20.78	22.04	21.20	22.43	22.83	22.68	23.94	23.10	24.33	24.73
	12H	20.83	22.04	21.26	22.42	22.85	22.89	24.10	23.32	24.48	24.91
4H	2H	18.64	20.07	19.04	20.41	20.79	19.22	20.65	19.62	20.99	21.37
	3H	20.64	21.83	21.05	22.23	22.63	21.55	22.75	21.96	23.15	23.55
	4H	21.39	22.48	21.82	22.89	23.32	22.59	23.67	23.02	24.08	24.52
	6H	21.93	22.88	22.38	23.32	23.77	23.52	24.47	23.97	24.91	25.36
	8H	22.07	22.97	22.53	23.41	23.87	23.90	24.79	24.36	25.23	25.70
	12H	22.16	22.96	22.64	23.44	23.91	24.18	24.98	24.65	25.45	25.92
8H	4H	21.84	22.73	22.30	23.18	23.64	22.89	23.78	23.34	24.22	24.68
	6H	22.52	23.26	23.01	23.75	24.23	23.97	24.71	24.46	25.20	25.67
	8H	22.74	23.41	23.25	23.91	24.40	24.46	25.13	24.96	25.63	26.12
	12H	22.89	23.48	23.39	23.97	24.53	24.83	25.42	25.34	25.91	26.47
12H	4H	21.93	22.73	22.40	23.20	23.67	22.91	23.72	23.39	24.19	24.66
	6H	22.65	23.32	23.15	23.82	24.31	24.02	24.69	24.53	25.20	25.68
	8H	22.94	23.53	23.44	24.02	24.58	24.58	25.17	25.08	25.66	26.22