

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: P1587821

Luminaire Tested: 22CZSP-SB-60HE-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587821
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-L850
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 6700 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

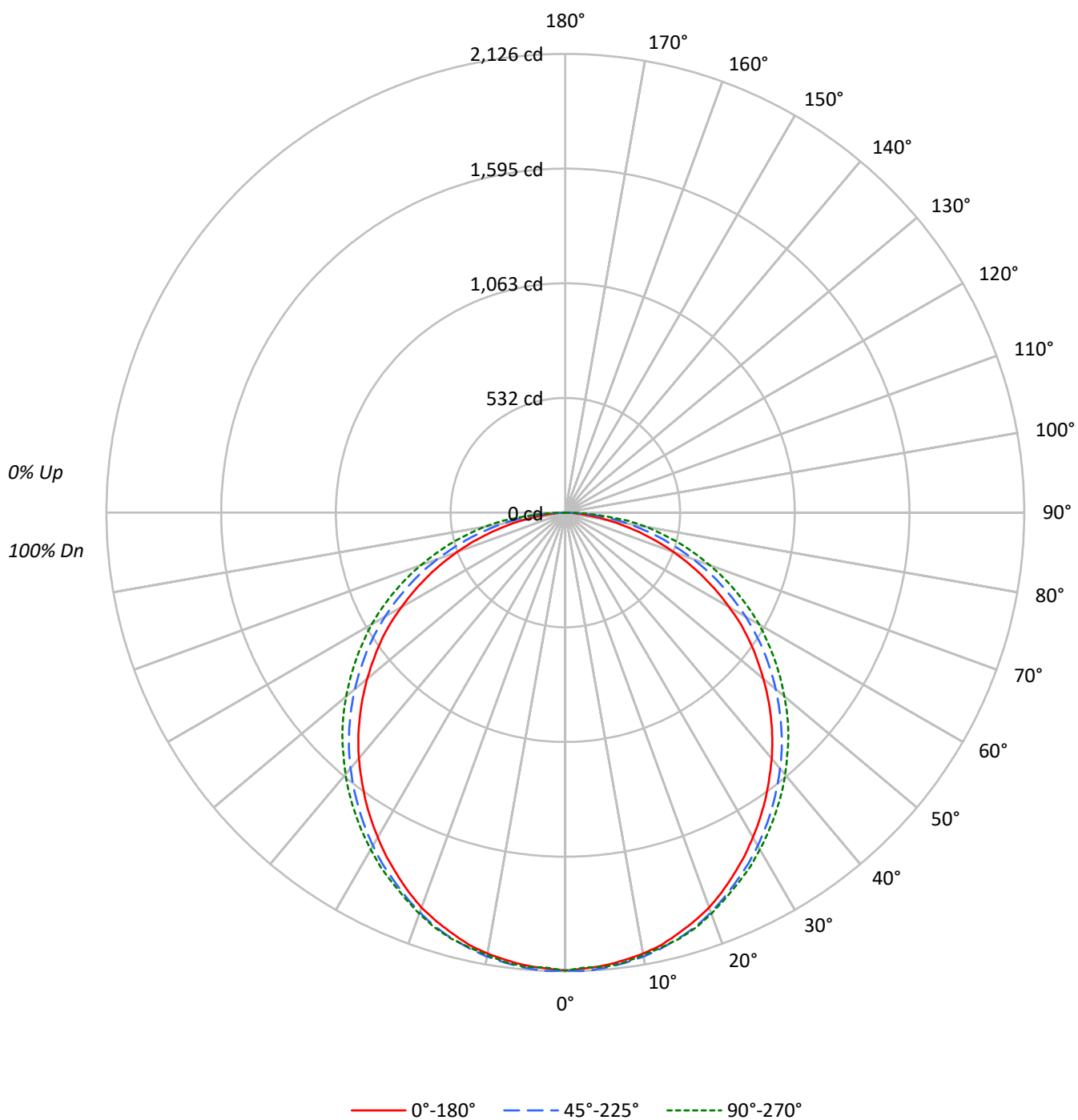
Lumens per Lamp: N/A
Luminaire Lumens: 6193.0 lumens
Efficiency: N/A
Efficacy: 149.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1587821

CATALOG NUMBER: 22CZSP-SB-60HE-L850

Luminous Intensity Polar Plot



TEST NUMBER: P1587821

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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	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°	6645	6645	6645
5°	6621	6658	6641
10°	6597	6643	6618
15°	6548	6616	6624
20°	6491	6569	6591
25°	6385	6499	6544
30°	6284	6445	6517
35°	6183	6383	6494
40°	6081	6328	6478
45°	5967	6269	6472
50°	5836	6200	6456
55°	5703	6132	6455
60°	5492	6042	6493
65°	5235	5925	6497
70°	4884	5761	6516
75°	4345	5551	6629
80°	3569	5318	6878
85°	2353	4990	6216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 7043 cd/sqm

TEST NUMBER: P1587821

CATALOG NUMBER: 22CZSP-SB-60HE-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.7	3.2
10°-20°	574.6	9.3
20°-30°	866.0	14.0
30°-40°	1042.9	16.8
40°-50°	1089.6	17.6
50°-60°	1001.0	16.2
60°-70°	788.3	12.7
70°-80°	483.3	7.8
80°-90°	146.5	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°	1641.3	26.5
0°-40°	2684.3	43.3
0°-60°	4774.9	77.1
0°-90°	6193.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6193.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2122	2122	2122	2122	2122	
5°	2106	2110	2118	2116	2113	200
15°	2020	2028	2041	2049	2043	570
25°	1848	1860	1881	1901	1894	852
35°	1618	1638	1670	1700	1699	1012
45°	1347	1376	1416	1455	1462	1039
55°	1045	1075	1123	1172	1182	932
65°	706	743	800	853	877	698
75°	359	401	459	514	548	382
85°	66	97	139	155	173	84
90°	0	0	0	0	0	

TEST NUMBER: P1587821

CATALOG NUMBER: 22CZSP-SB-60HE-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2122.1	2122.1	2122.1	2122.1	2122.1
2.5°	2114.2	2119.5	2126.0	2115.5	2110.3
5°	2106.4	2110.3	2118.2	2115.5	2112.9
7.5°	2091.9	2094.6	2105.1	2105.1	2102.4
10°	2074.9	2080.1	2089.3	2088.0	2081.5
12.5°	2052.6	2056.6	2067.0	2067.0	2063.1
15°	2019.9	2027.7	2040.8	2048.7	2043.4
17.5°	1985.8	1993.6	2010.7	2018.5	2015.9
20°	1947.8	1954.3	1971.4	1983.2	1977.9
22.5°	1900.6	1908.4	1928.1	1941.2	1936.0
25°	1848.1	1859.9	1880.9	1900.6	1894.0
27.5°	1795.7	1808.8	1835.0	1854.7	1852.1
30°	1738.0	1755.1	1782.6	1807.5	1802.3
32.5°	1679.1	1698.7	1727.6	1753.8	1752.5
35°	1617.5	1638.4	1669.9	1700.0	1698.7
37.5°	1551.9	1576.8	1609.6	1642.4	1643.7
40°	1487.7	1511.3	1548.0	1583.4	1584.7
42.5°	1419.5	1444.4	1483.8	1520.5	1521.8
45°	1347.4	1376.3	1415.6	1454.9	1461.5
47.5°	1274.0	1304.2	1344.8	1386.8	1394.6
50°	1198.0	1229.5	1272.7	1317.3	1325.2
52.5°	1120.7	1153.5	1198.0	1242.6	1254.4
55°	1044.7	1074.8	1123.3	1171.8	1182.3
57.5°	964.7	992.2	1044.7	1095.8	1108.9
60°	876.9	911.0	964.7	1015.8	1036.8
62.5°	791.7	828.4	883.4	934.6	958.2
65°	706.5	743.2	799.6	853.3	876.9
67.5°	620.0	658.0	718.3	769.4	795.6
70°	533.5	571.5	629.2	684.2	711.7
72.5°	447.0	487.6	544.0	600.3	627.8
75°	359.1	401.1	458.8	513.8	547.9
77.5°	276.6	317.2	374.9	431.2	460.1
80°	197.9	238.6	294.9	351.3	381.4
82.5°	125.8	163.8	218.9	266.1	293.6
85°	65.5	97.0	138.9	154.7	173.0
87.5°	19.7	38.0	53.7	60.3	74.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1587821

CATALOG NUMBER: 22CZSP-SB-60HE-L850

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	18.09	19.76	18.46	20.07	20.38	18.84	20.50	19.20	20.82	21.13
	3H	19.86	21.36	20.23	21.69	22.05	20.94	22.44	21.31	22.77	23.13
	4H	20.48	21.90	20.88	22.25	22.62	21.82	23.24	22.22	23.59	23.96
	6H	20.89	22.21	21.30	22.58	22.97	22.59	23.91	23.00	24.27	24.66
	8H	21.00	22.26	21.42	22.65	23.05	22.90	24.16	23.32	24.55	24.95
	12H	21.05	22.26	21.48	22.64	23.07	23.11	24.32	23.54	24.70	25.13
4H	2H	18.86	20.29	19.26	20.63	21.01	19.44	20.87	19.84	21.21	21.59
	3H	20.86	22.06	21.27	22.45	22.85	21.77	22.97	22.18	23.37	23.77
	4H	21.61	22.70	22.04	23.11	23.54	22.81	23.89	23.24	24.31	24.74
	6H	22.15	23.10	22.60	23.54	23.99	23.74	24.69	24.19	25.13	25.58
	8H	22.29	23.19	22.75	23.63	24.09	24.12	25.01	24.58	25.45	25.92
	12H	22.38	23.18	22.86	23.66	24.13	24.40	25.20	24.88	25.67	26.14
8H	4H	22.06	22.96	22.52	23.40	23.86	23.11	24.00	23.57	24.44	24.90
	6H	22.74	23.49	23.23	23.97	24.45	24.19	24.93	24.68	25.42	25.90
	8H	22.96	23.63	23.47	24.13	24.62	24.68	25.35	25.19	25.85	26.34
	12H	23.11	23.70	23.61	24.19	24.75	25.05	25.65	25.56	26.13	26.69
12H	4H	22.15	22.95	22.63	23.42	23.89	23.13	23.94	23.61	24.41	24.88
	6H	22.87	23.54	23.38	24.04	24.53	24.24	24.91	24.75	25.42	25.90
	8H	23.16	23.75	23.66	24.24	24.80	24.80	25.39	25.30	25.88	26.44