

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: P1587818

Luminaire Tested: 22CZSP-SB-60HE-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587818
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-L845-S
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 6700 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

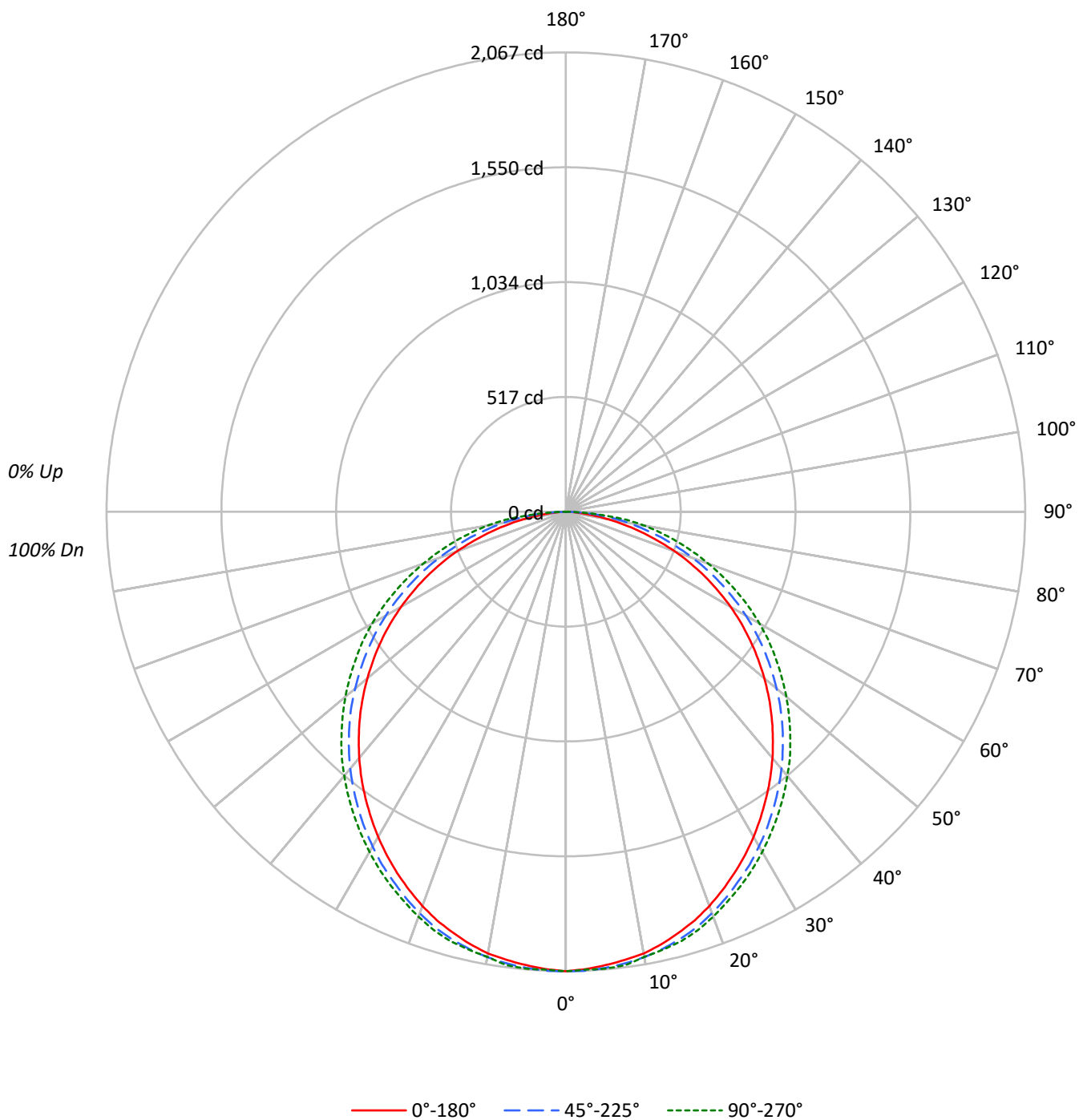
Lumens per Lamp: N/A
Luminaire Lumens: 6014.0 lumens
Efficiency: N/A
Efficacy: 144.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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: P1587818

CATALOG NUMBER: 22CZSP-SB-60HE-L845-S

Luminous Intensity Polar Plot



TEST NUMBER: P1587818

CATALOG NUMBER: 22CZSP-SB-60HE-L845-S

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	30	10	50	30	10
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°	6474	6474	6474
5°	6437	6474	6486
10°	6417	6471	6467
15°	6358	6451	6488
20°	6290	6406	6462
25°	6200	6343	6423
30°	6109	6287	6390
35°	6009	6226	6360
40°	5912	6172	6341
45°	5804	6107	6325
50°	5679	6031	6309
55°	5537	5954	6300
60°	5364	5866	6303
65°	5119	5742	6269
70°	4786	5567	6254
75°	4242	5354	6277
80°	3453	5085	6463
85°	2231	4696	5576

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6549 cd/sqm

TEST NUMBER: P1587818

CATALOG NUMBER: 22CZSP-SB-60HE-L845-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.6	3.3
10°-20°	560.3	9.3
20°-30°	844.7	14.0
30°-40°	1016.4	16.9
40°-50°	1060.2	17.6
50°-60°	971.8	16.2
60°-70°	763.1	12.7
70°-80°	464.4	7.7
80°-90°	137.4	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°	1600.6	26.6
0°-40°	2617.1	43.5
0°-60°	4649.1	77.3
0°-90°	6014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6014.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2067	2067	2067	2067	2067	
5°	2048	2061	2060	2057	2064	195
15°	1961	1981	1990	1992	2001	553
25°	1794	1819	1836	1848	1859	827
35°	1572	1596	1629	1652	1664	984
45°	1311	1338	1379	1412	1428	1011
55°	1014	1040	1091	1135	1154	906
65°	691	717	775	827	846	683
75°	351	383	442	496	519	372
85°	62	88	131	146	155	81
90°	0	0	0	0	0	

TEST NUMBER: P1587818

CATALOG NUMBER: 22CZSP-SB-60HE-L845-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2067.4	2067.4	2067.4	2067.4	2067.4
2.5°	2059.6	2070.0	2067.4	2058.3	2062.2
5°	2048.0	2060.9	2059.6	2057.1	2063.5
7.5°	2033.8	2048.0	2049.3	2049.3	2057.1
10°	2018.2	2032.5	2035.1	2031.2	2033.8
12.5°	1992.4	2009.2	2014.4	2014.4	2018.2
15°	1961.3	1980.7	1989.8	1992.4	2001.4
17.5°	1927.7	1948.4	1960.0	1966.5	1974.3
20°	1887.6	1909.6	1922.5	1930.3	1939.3
22.5°	1842.3	1866.9	1881.1	1888.9	1899.2
25°	1794.4	1819.0	1835.8	1847.5	1859.1
27.5°	1744.0	1767.3	1790.5	1804.8	1815.1
30°	1689.6	1714.2	1738.8	1756.9	1767.3
32.5°	1631.4	1657.3	1685.8	1705.2	1716.8
35°	1571.9	1596.5	1628.8	1652.1	1663.8
37.5°	1511.1	1537.0	1570.6	1595.2	1609.4
40°	1446.4	1473.6	1509.8	1537.0	1551.2
42.5°	1379.1	1405.0	1445.1	1476.2	1493.0
45°	1310.6	1337.7	1379.1	1411.5	1428.3
47.5°	1239.4	1265.3	1310.6	1348.1	1362.3
50°	1165.7	1190.2	1238.1	1278.2	1295.0
52.5°	1090.6	1116.5	1164.4	1207.1	1225.2
55°	1014.3	1040.2	1090.6	1134.6	1154.0
57.5°	936.7	962.5	1014.3	1059.6	1082.9
60°	856.5	882.3	936.7	983.2	1006.5
62.5°	773.7	800.8	856.5	904.3	928.9
65°	690.9	716.7	775.0	826.7	846.1
67.5°	608.1	633.9	690.9	742.6	765.9
70°	522.7	552.4	608.1	662.4	683.1
72.5°	433.4	467.0	522.7	579.6	600.3
75°	350.6	382.9	442.5	495.5	518.8
77.5°	269.1	304.0	359.7	414.0	437.3
80°	191.5	225.1	282.0	333.8	358.4
82.5°	121.6	151.4	208.3	254.9	273.0
85°	62.1	88.0	130.7	146.2	155.2
87.5°	18.1	31.0	46.6	58.2	64.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1587818

CATALOG NUMBER: 22CZSP-SB-60HE-L845-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	17.99	19.65	18.35	19.96	20.28	18.72	20.38	19.09	20.70	21.01
	3H	19.76	21.26	20.13	21.59	21.95	20.80	22.31	21.18	22.63	22.99
	4H	20.38	21.80	20.77	22.14	22.52	21.67	23.09	22.07	23.44	23.81
	6H	20.79	22.10	21.20	22.47	22.86	22.41	23.73	22.82	24.09	24.48
	8H	20.89	22.15	21.31	22.54	22.93	22.71	23.97	23.13	24.36	24.75
	12H	20.94	22.14	21.37	22.53	22.95	22.90	24.11	23.33	24.49	24.92
4H	2H	18.76	20.18	19.15	20.52	20.90	19.33	20.75	19.73	21.10	21.47
	3H	20.75	21.94	21.16	22.34	22.74	21.64	22.84	22.05	23.23	23.63
	4H	21.49	22.57	21.92	22.99	23.42	22.66	23.74	23.09	24.16	24.59
	6H	22.02	22.97	22.47	23.41	23.86	23.57	24.52	24.02	24.95	25.41
	8H	22.16	23.05	22.62	23.49	23.96	23.93	24.82	24.39	25.26	25.73
	12H	22.24	23.04	22.72	23.52	23.99	24.19	24.99	24.67	25.46	25.93
8H	4H	21.94	22.83	22.40	23.27	23.73	22.96	23.85	23.42	24.29	24.75
	6H	22.60	23.34	23.09	23.83	24.30	24.02	24.76	24.51	25.24	25.72
	8H	22.81	23.47	23.32	23.98	24.46	24.49	25.15	24.99	25.66	26.14
	12H	22.95	23.54	23.45	24.02	24.58	24.84	25.43	25.34	25.92	26.48
12H	4H	22.02	22.82	22.50	23.29	23.76	22.98	23.78	23.46	24.26	24.73
	6H	22.72	23.39	23.23	23.90	24.38	24.07	24.73	24.57	25.24	25.72
	8H	23.00	23.59	23.51	24.08	24.64	24.60	25.19	25.11	25.68	26.24