

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: P1587824

Luminaire Tested: 22CZSP-SB-60HE-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587824
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-L935-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 6700 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

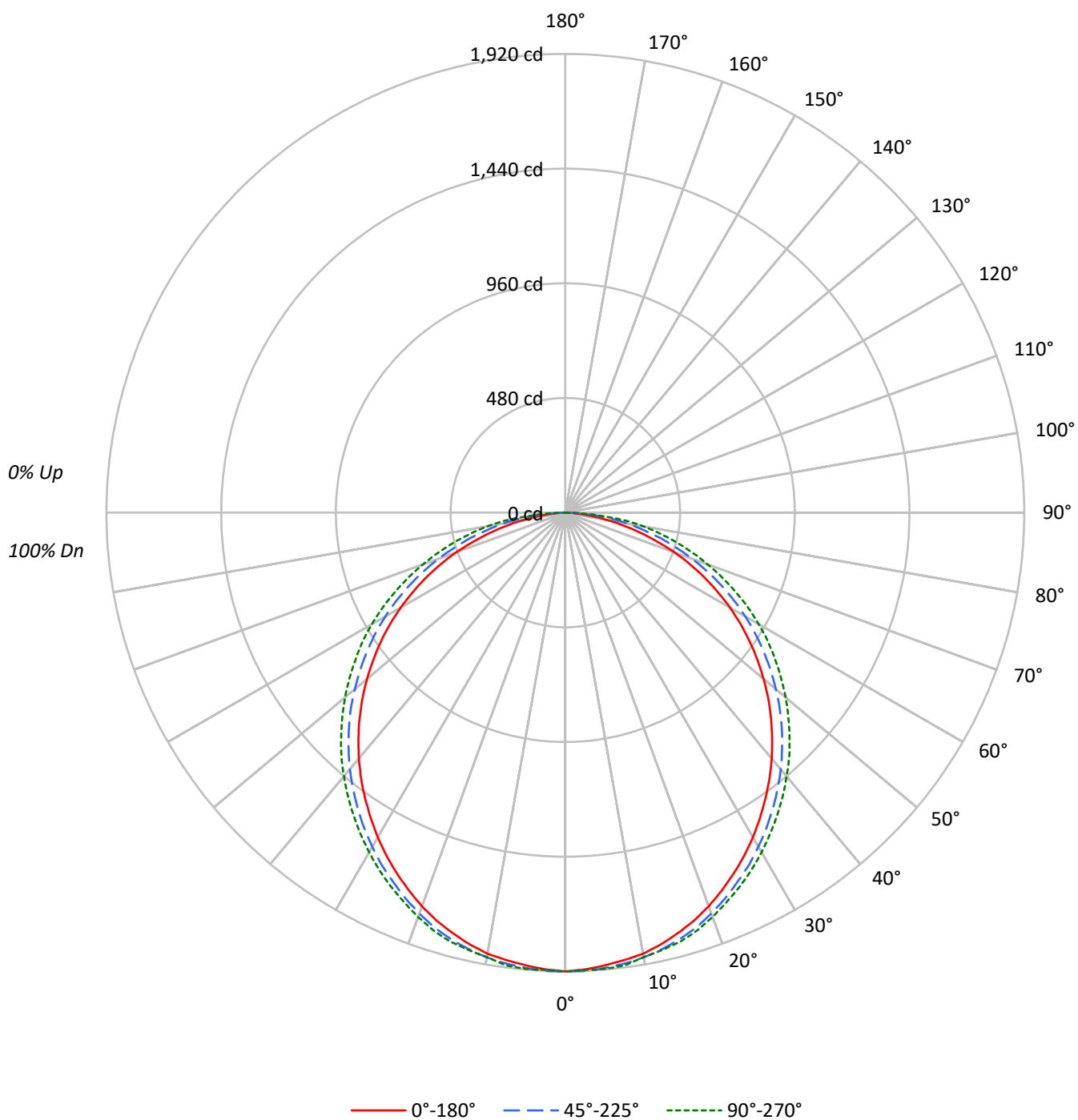
Lumens per Lamp: N/A
Luminaire Lumens: 5586.0 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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: P1587824

CATALOG NUMBER: 22CZSP-SB-60HE-L935-S

Luminous Intensity Polar Plot



TEST NUMBER: P1587824

CATALOG NUMBER: 22CZSP-SB-60HE-L935-S

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°	6013	6013	6013
5°	5979	6013	6025
10°	5961	6010	6006
15°	5906	5991	6026
20°	5842	5950	6002
25°	5759	5892	5966
30°	5675	5839	5935
35°	5581	5783	5908
40°	5492	5733	5889
45°	5391	5673	5875
50°	5274	5602	5860
55°	5143	5530	5852
60°	4982	5449	5855
65°	4755	5333	5823
70°	4445	5171	5809
75°	3940	4972	5830
80°	3206	4725	6003
85°	2073	4362	5181

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6084 cd/sqm

TEST NUMBER: P1587824

CATALOG NUMBER: 22CZSP-SB-60HE-L935-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.7	3.3
10°-20°	520.4	9.3
20°-30°	784.6	14.0
30°-40°	944.1	16.9
40°-50°	984.8	17.6
50°-60°	902.6	16.2
60°-70°	708.8	12.7
70°-80°	431.4	7.7
80°-90°	127.6	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°	1486.7	26.6
0°-40°	2430.8	43.5
0°-60°	4318.2	77.3
0°-90°	5586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5586.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1920	1920	1920	1920	1920	
5°	1902	1914	1913	1911	1917	181
15°	1822	1840	1848	1851	1859	514
25°	1667	1690	1705	1716	1727	768
35°	1460	1483	1513	1534	1545	914
45°	1217	1242	1281	1311	1327	939
55°	942	966	1013	1054	1072	842
65°	642	666	720	768	786	635
75°	326	356	411	460	482	345
85°	58	82	121	136	144	75
90°	0	0	0	0	0	

TEST NUMBER: P1587824

CATALOG NUMBER: 22CZSP-SB-60HE-L935-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1920.3	1920.3	1920.3	1920.3	1920.3
2.5°	1913.1	1922.7	1920.3	1911.9	1915.5
5°	1902.2	1914.3	1913.1	1910.7	1916.7
7.5°	1889.0	1902.2	1903.4	1903.4	1910.7
10°	1874.6	1887.8	1890.2	1886.6	1889.0
12.5°	1850.6	1866.2	1871.0	1871.0	1874.6
15°	1821.7	1839.8	1848.2	1850.6	1859.0
17.5°	1790.5	1809.7	1820.5	1826.5	1833.8
20°	1753.2	1773.7	1785.7	1792.9	1801.3
22.5°	1711.2	1734.0	1747.2	1754.4	1764.1
25°	1666.7	1689.6	1705.2	1716.0	1726.8
27.5°	1619.9	1641.5	1663.1	1676.3	1685.9
30°	1569.4	1592.2	1615.0	1631.9	1641.5
32.5°	1515.3	1539.3	1565.8	1583.8	1594.6
35°	1460.0	1482.9	1512.9	1534.5	1545.4
37.5°	1403.6	1427.6	1458.8	1481.7	1494.9
40°	1343.5	1368.7	1402.4	1427.6	1440.8
42.5°	1281.0	1305.0	1342.3	1371.1	1386.7
45°	1217.3	1242.5	1281.0	1311.0	1326.6
47.5°	1151.2	1175.2	1217.3	1252.1	1265.4
50°	1082.7	1105.5	1150.0	1187.3	1202.9
52.5°	1013.0	1037.0	1081.5	1121.2	1138.0
55°	942.1	966.1	1013.0	1053.9	1071.9
57.5°	870.0	894.0	942.1	984.2	1005.8
60°	795.5	819.5	870.0	913.3	934.9
62.5°	718.6	743.8	795.5	840.0	862.8
65°	641.7	665.7	719.8	767.9	785.9
67.5°	564.8	588.8	641.7	689.8	711.4
70°	485.5	513.1	564.8	615.3	634.5
72.5°	402.6	433.8	485.5	538.3	557.6
75°	325.7	355.7	411.0	460.2	481.9
77.5°	249.9	282.4	334.1	384.5	406.2
80°	177.8	209.1	262.0	310.0	332.9
82.5°	113.0	140.6	193.5	236.7	253.6
85°	57.7	81.7	121.4	135.8	144.2
87.5°	16.8	28.8	43.3	54.1	60.1
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1587824

CATALOG NUMBER: 22CZSP-SB-60HE-L935-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	17.73	19.39	18.10	19.71	20.02	18.47	20.13	18.83	20.44	20.76
	3H	19.50	21.01	19.88	21.33	21.69	20.55	22.05	20.92	22.38	22.74
	4H	20.12	21.54	20.52	21.89	22.26	21.41	22.83	21.81	23.18	23.55
	6H	20.53	21.85	20.94	22.21	22.60	22.16	23.47	22.57	23.84	24.23
	8H	20.63	21.89	21.06	22.28	22.68	22.45	23.71	22.88	24.10	24.50
	12H	20.68	21.89	21.11	22.27	22.70	22.65	23.85	23.07	24.23	24.66
4H	2H	18.50	19.92	18.90	20.27	20.64	19.07	20.49	19.47	20.84	21.21
	3H	20.49	21.69	20.90	22.08	22.48	21.39	22.58	21.79	22.98	23.38
	4H	21.23	22.32	21.66	22.73	23.17	22.40	23.49	22.83	23.90	24.33
	6H	21.76	22.71	22.22	23.15	23.61	23.31	24.26	23.76	24.70	25.15
	8H	21.90	22.79	22.36	23.24	23.70	23.68	24.57	24.13	25.01	25.47
	12H	21.99	22.79	22.46	23.26	23.73	23.93	24.73	24.41	25.21	25.67
8H	4H	21.68	22.57	22.14	23.01	23.47	22.70	23.59	23.16	24.03	24.50
	6H	22.34	23.09	22.84	23.57	24.05	23.76	24.50	24.25	24.99	25.46
	8H	22.55	23.22	23.06	23.72	24.21	24.23	24.90	24.74	25.40	25.89
	12H	22.69	23.28	23.19	23.77	24.33	24.58	25.17	25.09	25.66	26.22
12H	4H	21.76	22.56	22.24	23.04	23.50	22.73	23.53	23.21	24.00	24.47
	6H	22.47	23.13	22.97	23.64	24.12	23.81	24.48	24.32	24.98	25.47
	8H	22.74	23.33	23.25	23.82	24.38	24.35	24.94	24.85	25.43	25.99