

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: P1587798

Luminaire Tested: 22CZSP-SB-57HE-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587798
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-57HE-L845-S
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 5700 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

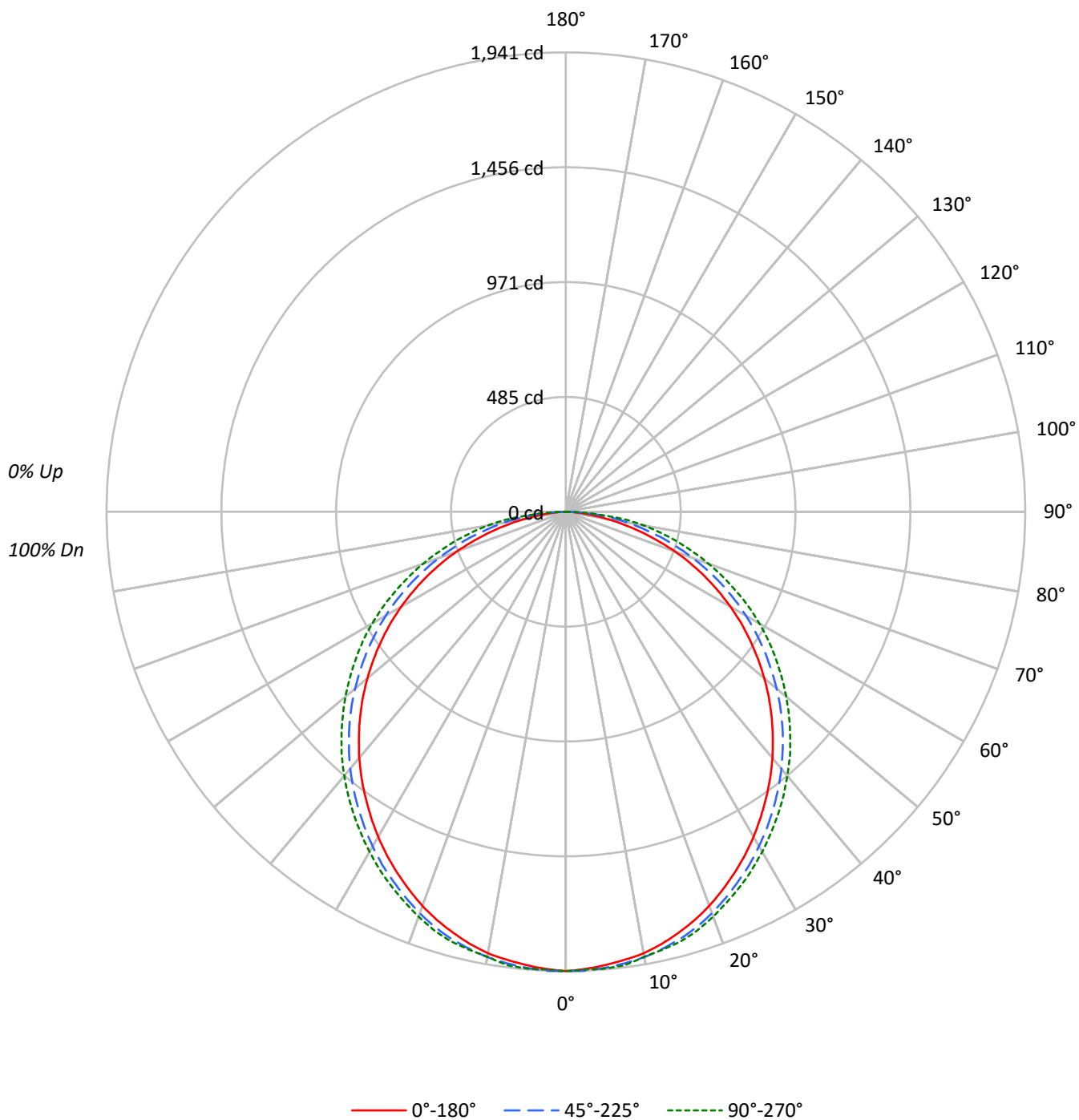
Lumens per Lamp: N/A
Luminaire Lumens: 5646.0 lumens
Efficiency: N/A
Efficacy: 145.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 38.9
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			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°	6078	6078	6078
5°	6044	6078	6089
10°	6024	6075	6071
15°	5969	6056	6091
20°	5905	6014	6067
25°	5820	5955	6030
30°	5735	5902	5999
35°	5641	5846	5971
40°	5551	5794	5953
45°	5449	5733	5938
50°	5331	5663	5923
55°	5198	5590	5915
60°	5036	5507	5918
65°	4806	5390	5885
70°	4493	5227	5871
75°	3983	5026	5892
80°	3242	4775	6066
85°	2095	4408	5235

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6149 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.7	3.3
10°-20°	526.0	9.3
20°-30°	793.0	14.0
30°-40°	954.2	16.9
40°-50°	995.3	17.6
50°-60°	912.3	16.2
60°-70°	716.4	12.7
70°-80°	436.0	7.7
80°-90°	129.0	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°	1502.7	26.6
0°-40°	2456.9	43.5
0°-60°	4364.6	77.3
0°-90°	5646.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5646.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1941	1941	1941	1941	1941	
5°	1923	1935	1934	1931	1937	183
15°	1841	1860	1868	1870	1879	519
25°	1685	1708	1724	1734	1745	776
35°	1476	1499	1529	1551	1562	923
45°	1230	1256	1295	1325	1341	949
55°	952	976	1024	1065	1083	851
65°	649	673	728	776	794	642
75°	329	360	415	465	487	349
85°	58	83	123	137	146	76
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1940.9	1940.9	1940.9	1940.9	1940.9
2.5°	1933.6	1943.3	1940.9	1932.4	1936.0
5°	1922.7	1934.8	1933.6	1931.2	1937.3
7.5°	1909.3	1922.7	1923.9	1923.9	1931.2
10°	1894.7	1908.1	1910.5	1906.9	1909.3
12.5°	1870.5	1886.2	1891.1	1891.1	1894.7
15°	1841.3	1859.5	1868.0	1870.5	1879.0
17.5°	1809.7	1829.2	1840.1	1846.2	1853.4
20°	1772.1	1792.7	1804.9	1812.2	1820.7
22.5°	1729.6	1752.6	1766.0	1773.3	1783.0
25°	1684.6	1707.7	1723.5	1734.4	1745.4
27.5°	1637.3	1659.1	1681.0	1694.3	1704.1
30°	1586.2	1609.3	1632.4	1649.4	1659.1
32.5°	1531.6	1555.9	1582.6	1600.8	1611.7
35°	1475.7	1498.8	1529.2	1551.0	1562.0
37.5°	1418.6	1442.9	1474.5	1497.6	1510.9
40°	1357.9	1383.4	1417.4	1442.9	1456.3
42.5°	1294.7	1319.0	1356.7	1385.8	1401.6
45°	1230.4	1255.9	1294.7	1325.1	1340.9
47.5°	1163.6	1187.9	1230.4	1265.6	1279.0
50°	1094.3	1117.4	1162.4	1200.0	1215.8
52.5°	1023.9	1048.2	1093.1	1133.2	1150.2
55°	952.2	976.5	1023.9	1065.2	1083.4
57.5°	879.4	903.6	952.2	994.7	1016.6
60°	804.1	828.3	879.4	923.1	944.9
62.5°	726.3	751.8	804.1	849.0	872.1
65°	648.6	672.9	727.5	776.1	794.3
67.5°	570.9	595.1	648.6	697.2	719.0
70°	490.7	518.6	570.9	621.9	641.3
72.5°	406.9	438.5	490.7	544.1	563.6
75°	329.2	359.5	415.4	465.2	487.0
77.5°	252.6	285.4	337.7	388.7	410.5
80°	179.8	211.3	264.8	313.4	336.4
82.5°	114.2	142.1	195.5	239.3	256.3
85°	58.3	82.6	122.7	137.2	145.7
87.5°	17.0	29.1	43.7	54.7	60.7
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	17.77	19.43	18.13	19.74	20.06	18.50	20.16	18.87	20.48	20.79
	3H	19.54	21.04	19.91	21.37	21.73	20.58	22.09	20.96	22.41	22.77
	4H	20.16	21.58	20.55	21.92	22.30	21.45	22.87	21.85	23.22	23.59
	6H	20.57	21.88	20.98	22.25	22.64	22.19	23.51	22.60	23.87	24.27
	8H	20.67	21.93	21.09	22.32	22.72	22.49	23.75	22.91	24.14	24.54
	12H	20.72	21.93	21.15	22.31	22.74	22.68	23.89	23.11	24.27	24.70
4H	2H	18.54	19.96	18.94	20.30	20.68	19.11	20.53	19.51	20.88	21.25
	3H	20.53	21.72	20.94	22.12	22.52	21.42	22.62	21.83	23.01	23.41
	4H	21.27	22.36	21.70	22.77	23.20	22.44	23.52	22.87	23.94	24.37
	6H	21.80	22.75	22.25	23.19	23.64	23.35	24.30	23.80	24.74	25.19
	8H	21.94	22.83	22.40	23.27	23.74	23.71	24.60	24.17	25.04	25.51
	12H	22.02	22.82	22.50	23.30	23.77	23.97	24.77	24.45	25.24	25.71
8H	4H	21.72	22.61	22.18	23.05	23.51	22.74	23.63	23.20	24.07	24.53
	6H	22.38	23.12	22.87	23.61	24.08	23.80	24.54	24.29	25.02	25.50
	8H	22.59	23.26	23.10	23.76	24.24	24.27	24.93	24.78	25.44	25.92
	12H	22.73	23.32	23.23	23.81	24.36	24.62	25.21	25.12	25.70	26.26
12H	4H	21.80	22.60	22.28	23.07	23.54	22.76	23.57	23.24	24.04	24.51
	6H	22.50	23.17	23.01	23.68	24.16	23.85	24.51	24.35	25.02	25.50
	8H	22.78	23.37	23.29	23.86	24.42	24.38	24.97	24.89	25.46	26.02