

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: P1587806

Luminaire Tested: 22CZSP-SB-57HE-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587806
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-L940-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 5700 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

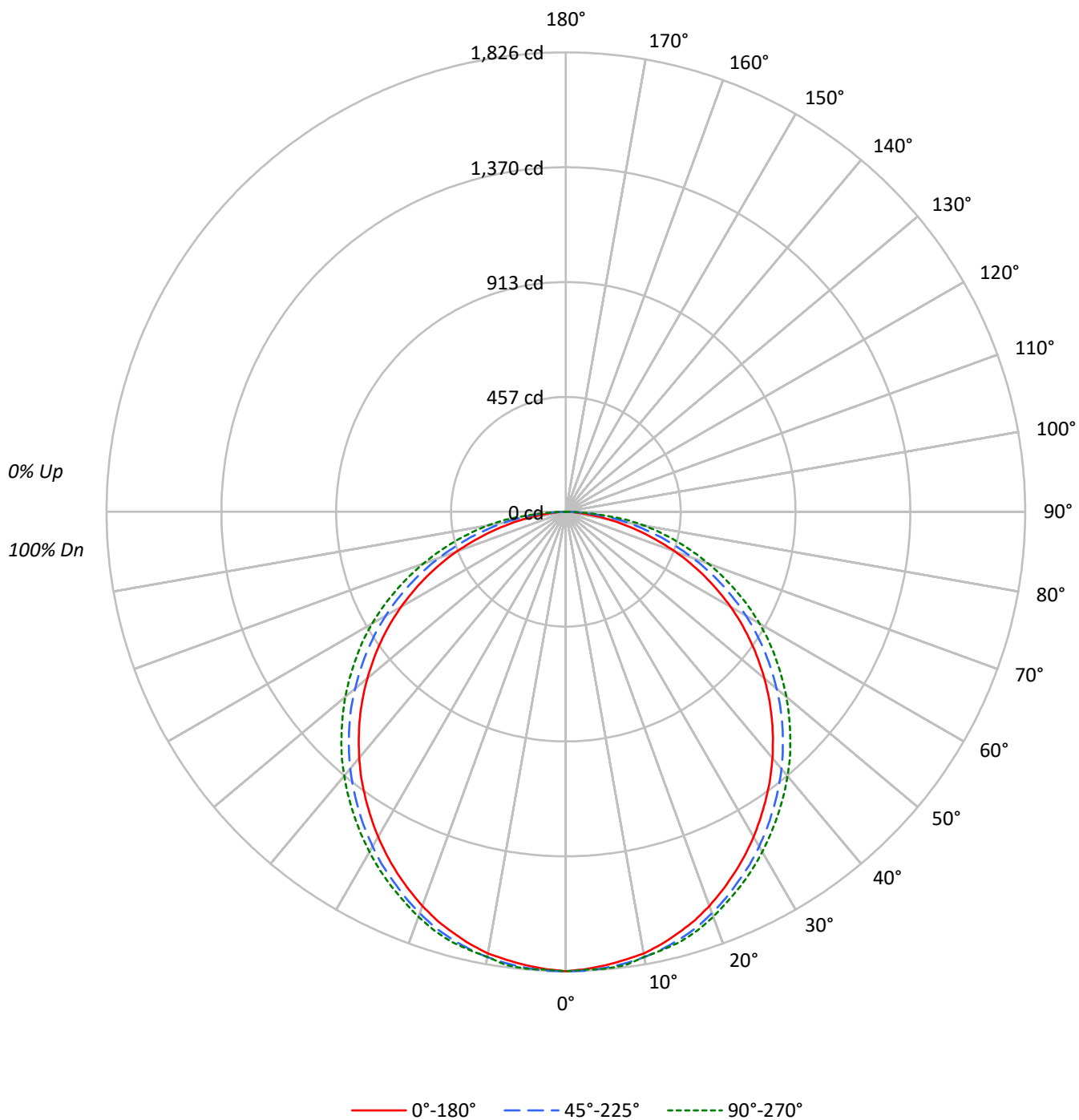
Lumens per Lamp: N/A
Luminaire Lumens: 5313.0 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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	94	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	64	87	77	69	63	74	67	62		71	66	61		69
4	82	70	61	54	79	68	60	53	66	58	53		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	45	39		50
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5719	5719	5719
5°	5687	5720	5730
10°	5669	5717	5713
15°	5617	5698	5732
20°	5557	5660	5709
25°	5477	5603	5675
30°	5397	5554	5645
35°	5309	5501	5619
40°	5223	5452	5602
45°	5127	5396	5588
50°	5017	5328	5573
55°	4892	5260	5566
60°	4738	5182	5569
65°	4522	5072	5538
70°	4227	4918	5525
75°	3747	4729	5545
80°	3051	4494	5709
85°	1972	4146	4929

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5786 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.8	3.3
10°-20°	495.0	9.3
20°-30°	746.3	14.0
30°-40°	897.9	16.9
40°-50°	936.6	17.6
50°-60°	858.5	16.2
60°-70°	674.1	12.7
70°-80°	410.3	7.7
80°-90°	121.4	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°	1414.1	26.6
0°-40°	2312.0	43.5
0°-60°	4107.2	77.3
0°-90°	5313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5313.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1826	1826	1826	1826	1826	
5°	1809	1821	1820	1817	1823	172
15°	1733	1750	1758	1760	1768	489
25°	1585	1607	1622	1632	1642	731
35°	1389	1410	1439	1460	1470	869
45°	1158	1182	1218	1247	1262	893
55°	896	919	964	1002	1020	801
65°	610	633	685	730	748	604
75°	310	338	391	438	458	328
85°	55	78	115	129	137	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1826.4	1826.4	1826.4	1826.4	1826.4
2.5°	1819.6	1828.7	1826.4	1818.4	1821.9
5°	1809.3	1820.7	1819.6	1817.3	1823.0
7.5°	1796.7	1809.3	1810.4	1810.4	1817.3
10°	1783.0	1795.6	1797.9	1794.4	1796.7
12.5°	1760.1	1775.0	1779.6	1779.6	1783.0
15°	1732.7	1749.8	1757.8	1760.1	1768.1
17.5°	1703.0	1721.3	1731.6	1737.3	1744.1
20°	1667.6	1687.0	1698.4	1705.3	1713.3
22.5°	1627.6	1649.3	1661.8	1668.7	1677.8
25°	1585.3	1607.0	1621.8	1632.1	1642.4
27.5°	1540.7	1561.3	1581.8	1594.4	1603.6
30°	1492.7	1514.4	1536.1	1552.1	1561.3
32.5°	1441.3	1464.1	1489.3	1506.4	1516.7
35°	1388.7	1410.4	1439.0	1459.5	1469.8
37.5°	1335.0	1357.8	1387.5	1409.3	1421.8
40°	1277.8	1301.8	1333.8	1357.8	1370.4
42.5°	1218.4	1241.2	1276.7	1304.1	1319.0
45°	1157.8	1181.8	1218.4	1247.0	1261.8
47.5°	1094.9	1117.8	1157.8	1190.9	1203.5
50°	1029.8	1051.5	1093.8	1129.2	1144.1
52.5°	963.5	986.4	1028.7	1066.4	1082.4
55°	896.1	918.9	963.5	1002.4	1019.5
57.5°	827.5	850.4	896.1	936.1	956.6
60°	756.6	779.5	827.5	868.6	889.2
62.5°	683.5	707.5	756.6	798.9	820.6
65°	610.3	633.2	684.6	730.3	747.5
67.5°	537.2	560.0	610.3	656.1	676.6
70°	461.7	488.0	537.2	585.2	603.5
72.5°	382.9	412.6	461.7	512.0	530.3
75°	309.7	338.3	390.9	437.7	458.3
77.5°	237.7	268.6	317.7	365.7	386.3
80°	169.2	198.9	249.2	294.9	316.6
82.5°	107.4	133.7	184.0	225.2	241.2
85°	54.9	77.7	115.4	129.2	137.2
87.5°	16.0	27.4	41.1	51.4	57.1
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	17.56	19.22	17.92	19.53	19.85	18.29	19.95	18.66	20.27	20.58
	3H	19.33	20.83	19.70	21.16	21.52	20.37	21.88	20.75	22.20	22.56
	4H	19.95	21.37	20.34	21.71	22.09	21.24	22.66	21.64	23.00	23.38
	6H	20.35	21.67	20.76	22.04	22.43	21.98	23.30	22.39	23.66	24.05
	8H	20.46	21.72	20.88	22.11	22.50	22.28	23.54	22.70	23.93	24.32
	12H	20.51	21.71	20.94	22.10	22.52	22.47	23.68	22.90	24.06	24.49
4H	2H	18.33	19.75	18.72	20.09	20.47	18.90	20.32	19.30	20.66	21.04
	3H	20.32	21.51	20.73	21.91	22.31	21.21	22.41	21.62	22.80	23.20
	4H	21.06	22.14	21.49	22.56	22.99	22.23	23.31	22.66	23.73	24.16
	6H	21.59	22.54	22.04	22.98	23.43	23.13	24.08	23.59	24.52	24.98
	8H	21.73	22.62	22.19	23.06	23.53	23.50	24.39	23.96	24.83	25.30
	12H	21.81	22.61	22.29	23.09	23.55	23.76	24.56	24.23	25.03	25.50
8H	4H	21.51	22.40	21.96	22.84	23.30	22.53	23.42	22.99	23.86	24.32
	6H	22.17	22.91	22.66	23.40	23.87	23.58	24.33	24.08	24.81	25.29
	8H	22.38	23.04	22.89	23.55	24.03	24.06	24.72	24.56	25.23	25.71
	12H	22.51	23.10	23.02	23.59	24.15	24.41	25.00	24.91	25.49	26.05
12H	4H	21.59	22.39	22.07	22.86	23.33	22.55	23.35	23.03	23.83	24.30
	6H	22.29	22.96	22.80	23.46	23.95	23.64	24.30	24.14	24.81	25.29
	8H	22.57	23.16	23.08	23.65	24.21	24.17	24.76	24.68	25.25	25.81

END OF REPORT