

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: P1587790

Luminaire Tested: 22CZSP-SB-54HE-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587790
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-54HE-L950-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 5000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

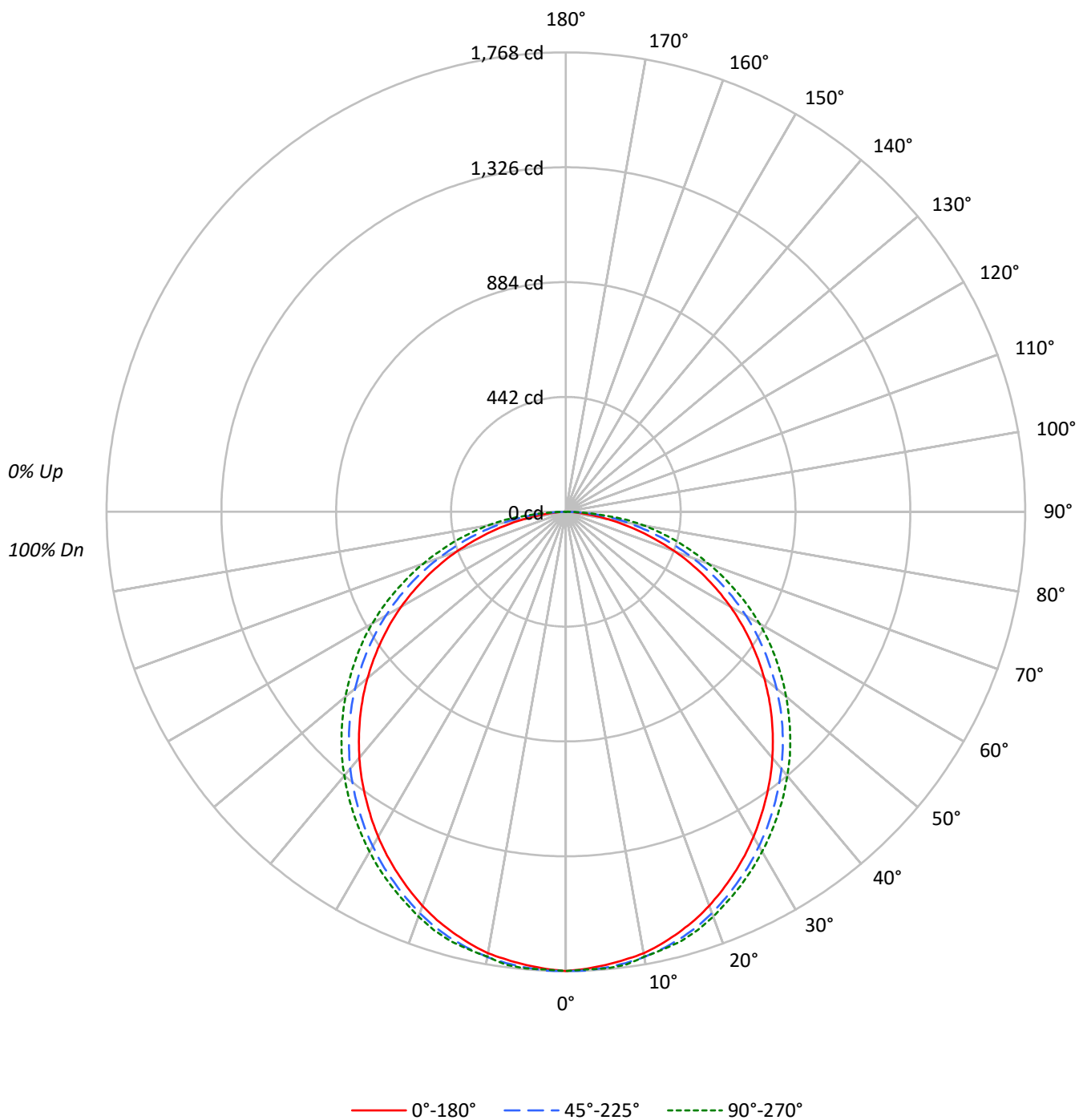
Lumens per Lamp: N/A
Luminaire Lumens: 5142.0 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 36.1
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°	5535	5535	5535
5°	5504	5535	5546
10°	5487	5533	5529
15°	5436	5515	5547
20°	5378	5478	5525
25°	5301	5423	5492
30°	5223	5376	5463
35°	5138	5324	5438
40°	5055	5277	5421
45°	4962	5222	5408
50°	4855	5157	5394
55°	4734	5091	5387
60°	4586	5016	5390
65°	4377	4909	5360
70°	4092	4760	5348
75°	3627	4577	5367
80°	2952	4348	5525
85°	1908	4013	4768

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5599 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.3	3.3
10°-20°	479.0	9.3
20°-30°	722.2	14.0
30°-40°	869.0	16.9
40°-50°	906.5	17.6
50°-60°	830.9	16.2
60°-70°	652.5	12.7
70°-80°	397.1	7.7
80°-90°	117.5	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°	1368.5	26.6
0°-40°	2237.6	43.5
0°-60°	3975.0	77.3
0°-90°	5142.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5142.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1768	1768	1768	1768	1768	
5°	1751	1762	1761	1759	1764	166
15°	1677	1694	1701	1704	1711	473
25°	1534	1555	1570	1580	1590	707
35°	1344	1365	1393	1413	1422	841
45°	1120	1144	1179	1207	1221	864
55°	867	889	932	970	987	775
65°	591	613	663	707	723	584
75°	300	327	378	424	444	318
85°	53	75	112	125	133	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1767.6	1767.6	1767.6	1767.6	1767.6
2.5°	1761.0	1769.9	1767.6	1759.9	1763.2
5°	1751.0	1762.1	1761.0	1758.8	1764.3
7.5°	1738.9	1751.0	1752.2	1752.2	1758.8
10°	1725.6	1737.8	1740.0	1736.7	1738.9
12.5°	1703.5	1717.9	1722.3	1722.3	1725.6
15°	1676.9	1693.5	1701.3	1703.5	1711.2
17.5°	1648.2	1665.9	1675.8	1681.4	1688.0
20°	1613.9	1632.7	1643.8	1650.4	1658.1
22.5°	1575.2	1596.2	1608.4	1615.0	1623.8
25°	1534.2	1555.3	1569.6	1579.6	1589.5
27.5°	1491.1	1511.0	1530.9	1543.1	1551.9
30°	1444.6	1465.7	1486.7	1502.2	1511.0
32.5°	1394.9	1417.0	1441.3	1457.9	1467.9
35°	1344.0	1365.0	1392.7	1412.6	1422.5
37.5°	1292.0	1314.1	1342.9	1363.9	1376.1
40°	1236.7	1259.9	1290.9	1314.1	1326.3
42.5°	1179.2	1201.3	1235.6	1262.1	1276.5
45°	1120.5	1143.8	1179.2	1206.8	1221.2
47.5°	1059.7	1081.8	1120.5	1152.6	1164.8
50°	996.6	1017.7	1058.6	1092.9	1107.3
52.5°	932.5	954.6	995.5	1032.0	1047.5
55°	867.2	889.4	932.5	970.1	986.7
57.5°	800.9	823.0	867.2	905.9	925.9
60°	732.3	754.4	800.9	840.7	860.6
62.5°	661.5	684.7	732.3	773.2	794.2
65°	590.7	612.8	662.6	706.8	723.4
67.5°	519.9	542.0	590.7	634.9	654.8
70°	446.9	472.3	519.9	566.4	584.1
72.5°	370.6	399.3	446.9	495.6	513.3
75°	299.8	327.4	378.3	423.7	443.6
77.5°	230.1	259.9	307.5	354.0	373.9
80°	163.7	192.5	241.1	285.4	306.4
82.5°	104.0	129.4	178.1	217.9	233.4
85°	53.1	75.2	111.7	125.0	132.7
87.5°	15.5	26.5	39.8	49.8	55.3
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	17.44	19.10	17.81	19.42	19.73	18.18	19.84	18.54	20.15	20.47
	3H	19.21	20.72	19.59	21.04	21.40	20.26	21.76	20.64	22.09	22.45
	4H	19.83	21.25	20.23	21.60	21.97	21.12	22.54	21.52	22.89	23.27
	6H	20.24	21.56	20.65	21.92	22.31	21.87	23.19	22.28	23.55	23.94
	8H	20.34	21.60	20.77	21.99	22.39	22.16	23.42	22.59	23.81	24.21
	12H	20.39	21.60	20.82	21.98	22.41	22.36	23.57	22.79	23.95	24.38
4H	2H	18.21	19.63	18.61	19.98	20.35	18.78	20.20	19.18	20.55	20.93
	3H	20.20	21.40	20.61	21.80	22.20	21.10	22.29	21.51	22.69	23.09
	4H	20.95	22.03	21.38	22.44	22.88	22.12	23.20	22.55	23.61	24.05
	6H	21.48	22.42	21.93	22.86	23.32	23.02	23.97	23.47	24.41	24.86
	8H	21.62	22.51	22.08	22.95	23.41	23.39	24.28	23.85	24.72	25.18
	12H	21.70	22.50	22.18	22.97	23.44	23.64	24.44	24.12	24.92	25.39
8H	4H	21.39	22.28	21.85	22.72	23.19	22.41	23.30	22.87	23.74	24.21
	6H	22.06	22.80	22.55	23.28	23.76	23.47	24.21	23.96	24.70	25.17
	8H	22.26	22.93	22.77	23.44	23.92	23.94	24.61	24.45	25.11	25.60
	12H	22.40	22.99	22.91	23.48	24.04	24.29	24.88	24.80	25.37	25.93
12H	4H	21.47	22.27	21.95	22.75	23.22	22.44	23.24	22.92	23.71	24.18
	6H	22.18	22.85	22.69	23.35	23.84	23.52	24.19	24.03	24.69	25.18
	8H	22.46	23.05	22.96	23.54	24.09	24.06	24.65	24.56	25.14	25.70