

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: P1587791

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-54HE-L950
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 5000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

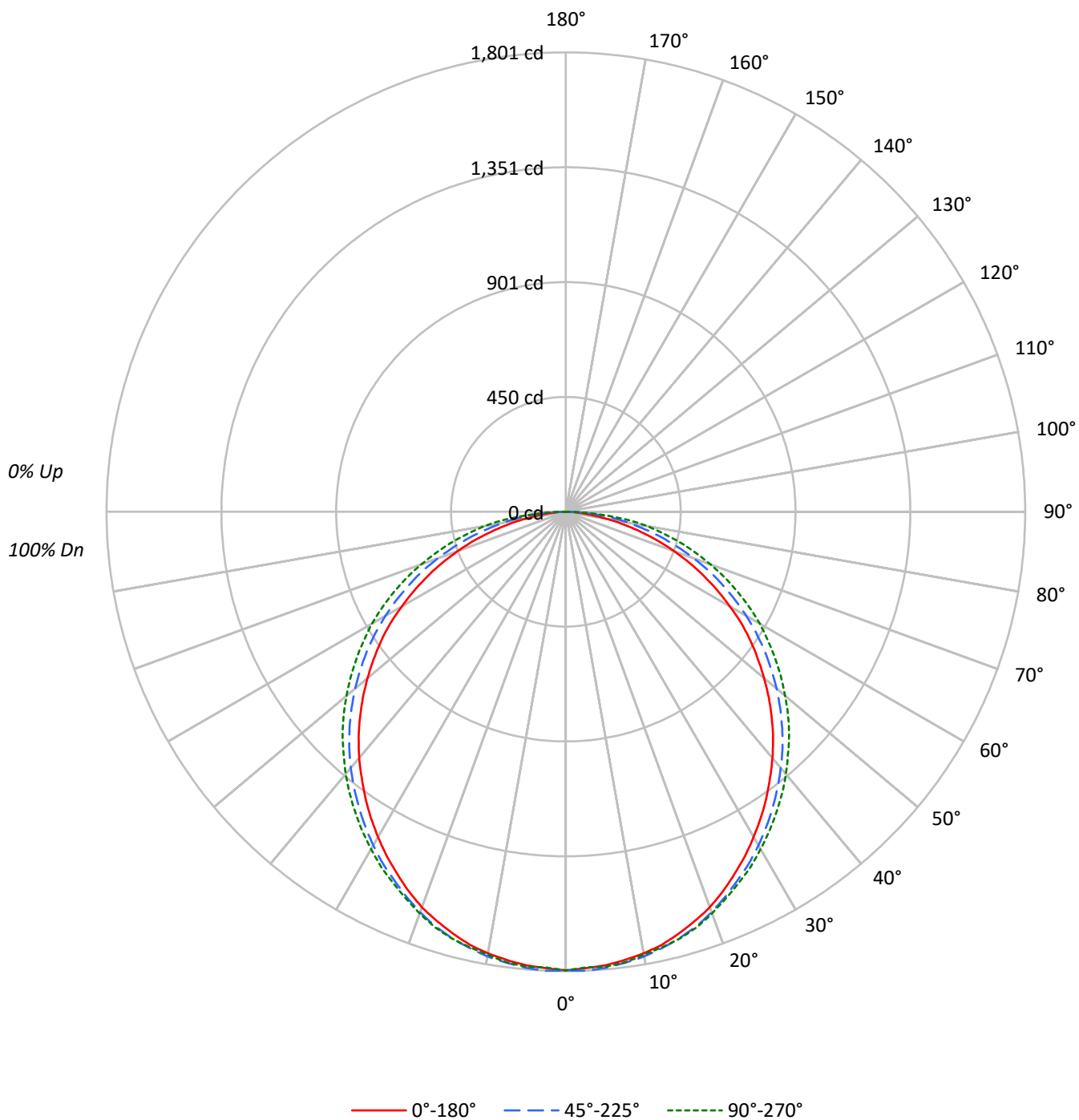
Lumens per Lamp: N/A
Luminaire Lumens: 5247.0 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	93	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	68
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		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	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5630	5630	5630
5°	5610	5641	5627
10°	5590	5629	5607
15°	5548	5605	5613
20°	5499	5566	5584
25°	5410	5506	5544
30°	5325	5461	5521
35°	5239	5408	5502
40°	5152	5361	5488
45°	5055	5311	5483
50°	4945	5253	5469
55°	4832	5196	5469
60°	4653	5118	5501
65°	4435	5019	5504
70°	4138	4881	5521
75°	3682	4703	5616
80°	3024	4506	5828
85°	1994	4229	5267

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5969 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.1	3.2
10°-20°	486.8	9.3
20°-30°	733.7	14.0
30°-40°	883.6	16.8
40°-50°	923.1	17.6
50°-60°	848.1	16.2
60°-70°	667.9	12.7
70°-80°	409.5	7.8
80°-90°	124.2	2.4
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°	1390.6	26.5
0°-40°	2274.2	43.3
0°-60°	4045.5	77.1
0°-90°	5247.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5247.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1798	1798	1798	1798	1798	
5°	1785	1788	1795	1792	1790	169
15°	1711	1718	1729	1736	1731	483
25°	1566	1576	1594	1610	1605	722
35°	1370	1388	1415	1440	1439	857
45°	1142	1166	1199	1233	1238	881
55°	885	911	952	993	1002	790
65°	599	630	677	723	743	592
75°	304	340	389	435	464	323
85°	56	82	118	131	147	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1797.9	1797.9	1797.9	1797.9	1797.9
2.5°	1791.3	1795.7	1801.3	1792.4	1787.9
5°	1784.6	1787.9	1794.6	1792.4	1790.2
7.5°	1772.4	1774.6	1783.5	1783.5	1781.3
10°	1758.0	1762.4	1770.2	1769.1	1763.5
12.5°	1739.1	1742.4	1751.3	1751.3	1748.0
15°	1711.3	1718.0	1729.1	1735.7	1731.3
17.5°	1682.4	1689.1	1703.5	1710.2	1708.0
20°	1650.2	1655.8	1670.2	1680.2	1675.8
22.5°	1610.3	1616.9	1633.6	1644.7	1640.2
25°	1565.8	1575.8	1593.6	1610.3	1604.7
27.5°	1521.4	1532.5	1554.7	1571.4	1569.2
30°	1472.6	1487.0	1510.3	1531.4	1527.0
32.5°	1422.6	1439.2	1463.7	1485.9	1484.8
35°	1370.4	1388.2	1414.8	1440.3	1439.2
37.5°	1314.9	1336.0	1363.7	1391.5	1392.6
40°	1260.4	1280.4	1311.5	1341.5	1342.6
42.5°	1202.7	1223.8	1257.1	1288.2	1289.3
45°	1141.6	1166.0	1199.4	1232.7	1238.2
47.5°	1079.4	1105.0	1139.4	1174.9	1181.6
50°	1015.0	1041.7	1078.3	1116.1	1122.7
52.5°	949.5	977.3	1015.0	1052.8	1062.8
55°	885.1	910.6	951.7	992.8	1001.7
57.5°	817.3	840.7	885.1	928.4	939.5
60°	742.9	771.8	817.3	860.7	878.4
62.5°	670.8	701.9	748.5	791.8	811.8
65°	598.6	629.7	677.4	723.0	742.9
67.5°	525.3	557.5	608.6	651.9	674.1
70°	452.0	484.2	533.1	579.7	603.0
72.5°	378.7	413.1	460.9	508.6	531.9
75°	304.3	339.8	388.7	435.3	464.2
77.5°	234.3	268.7	317.6	365.4	389.8
80°	167.7	202.1	249.9	297.6	323.2
82.5°	106.6	138.8	185.5	225.4	248.8
85°	55.5	82.2	117.7	131.0	146.6
87.5°	16.7	32.2	45.5	51.1	63.3
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	17.52	19.18	17.88	19.49	19.81	18.26	19.93	18.63	20.24	20.55
	3H	19.28	20.79	19.66	21.11	21.47	20.36	21.87	20.74	22.19	22.55
	4H	19.90	21.33	20.30	21.67	22.05	21.24	22.67	21.64	23.01	23.39
	6H	20.32	21.64	20.73	22.00	22.39	22.01	23.33	22.42	23.70	24.09
	8H	20.42	21.69	20.85	22.07	22.47	22.32	23.59	22.75	23.97	24.37
	12H	20.47	21.69	20.90	22.07	22.50	22.54	23.75	22.96	24.13	24.56
4H	2H	18.29	19.71	18.69	20.06	20.43	18.87	20.29	19.26	20.64	21.01
	3H	20.28	21.48	20.69	21.88	22.28	21.20	22.39	21.60	22.79	23.19
	4H	21.03	22.12	21.47	22.53	22.97	22.23	23.32	22.66	23.73	24.16
	6H	21.57	22.52	22.02	22.96	23.42	23.16	24.11	23.61	24.55	25.01
	8H	21.72	22.61	22.18	23.05	23.52	23.54	24.44	24.00	24.88	25.34
	12H	21.80	22.61	22.28	23.08	23.55	23.82	24.62	24.30	25.10	25.57
8H	4H	21.49	22.38	21.95	22.82	23.28	22.53	23.42	22.99	23.86	24.33
	6H	22.16	22.91	22.66	23.40	23.87	23.61	24.36	24.11	24.85	25.32
	8H	22.39	23.05	22.89	23.56	24.04	24.10	24.77	24.61	25.28	25.76
	12H	22.53	23.12	23.04	23.61	24.17	24.48	25.07	24.98	25.56	26.12
12H	4H	21.57	22.37	22.05	22.85	23.32	22.56	23.36	23.04	23.84	24.30
	6H	22.29	22.96	22.80	23.47	23.95	23.67	24.34	24.17	24.84	25.33
	8H	22.58	23.18	23.09	23.67	24.22	24.22	24.81	24.73	25.30	25.86