

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: P1587785

Luminaire Tested: 22CZSP-SB-54HE-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587785
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-L935
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

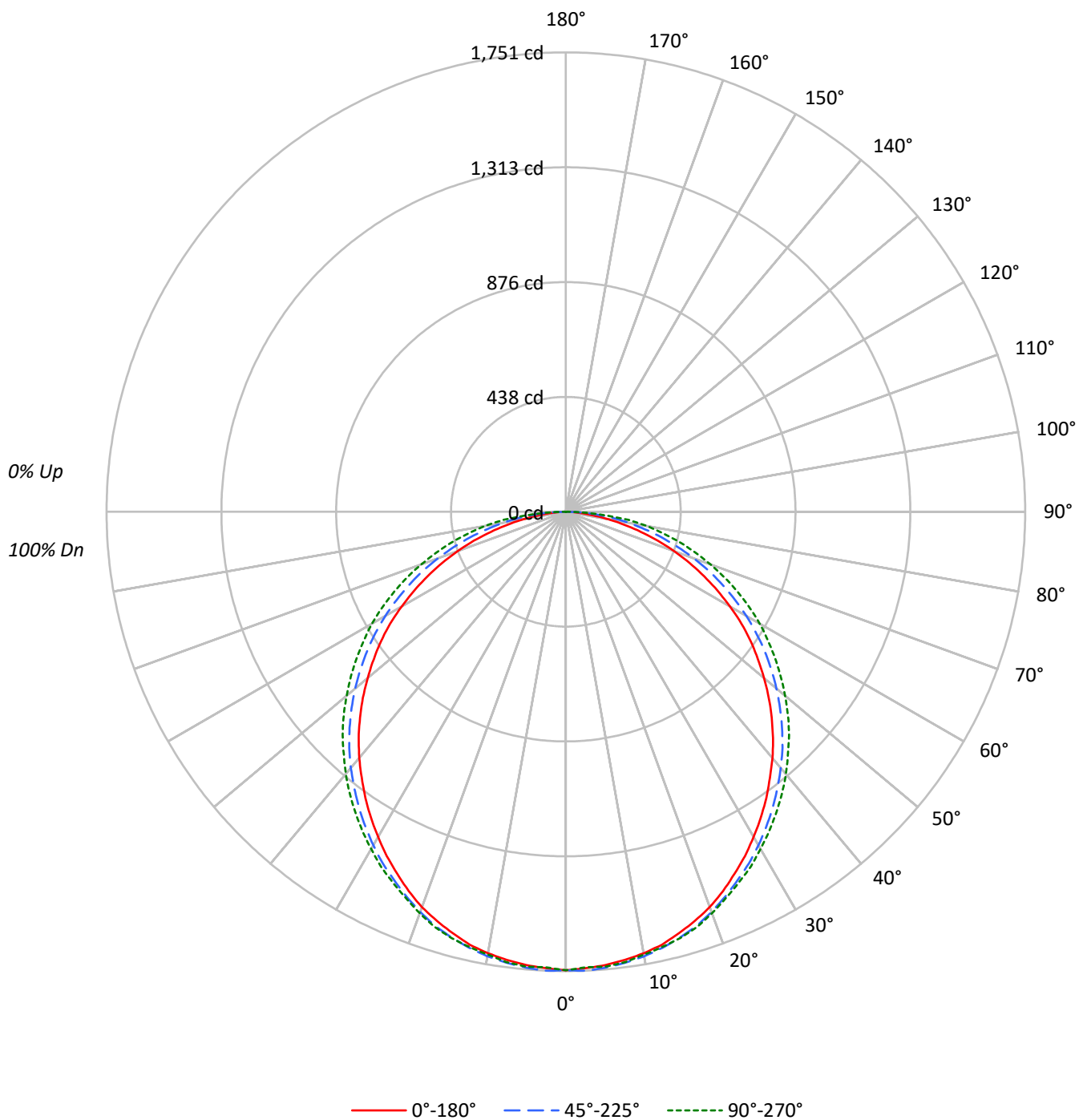
Lumens per Lamp: N/A
Luminaire Lumens: 5100.0 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	5472	5472	5472
5°	5452	5483	5469
10°	5433	5471	5450
15°	5392	5448	5455
20°	5345	5410	5428
25°	5259	5352	5389
30°	5175	5308	5366
35°	5092	5257	5347
40°	5008	5211	5334
45°	4914	5163	5330
50°	4806	5106	5316
55°	4697	5050	5315
60°	4522	4975	5347
65°	4311	4878	5350
70°	4022	4743	5366
75°	3579	4571	5459
80°	2939	4380	5664
85°	1940	4110	5120

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5801 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.3	3.2
10°-20°	473.2	9.3
20°-30°	713.2	14.0
30°-40°	858.9	16.8
40°-50°	897.3	17.6
50°-60°	824.4	16.2
60°-70°	649.2	12.7
70°-80°	398.0	7.8
80°-90°	120.7	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°	1351.7	26.5
0°-40°	2210.5	43.3
0°-60°	3932.2	77.1
0°-90°	5100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5100.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1748	1748	1748	1748	1748	
5°	1735	1738	1744	1742	1740	165
15°	1663	1670	1681	1687	1683	469
25°	1522	1532	1549	1565	1560	702
35°	1332	1349	1375	1400	1399	833
45°	1110	1133	1166	1198	1204	856
55°	860	885	925	965	974	768
65°	582	612	658	703	722	575
75°	296	330	378	423	451	314
85°	54	80	114	127	142	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1747.6	1747.6	1747.6	1747.6	1747.6
2.5°	1741.1	1745.4	1750.8	1742.2	1737.9
5°	1734.6	1737.9	1744.3	1742.2	1740.0
7.5°	1722.7	1724.9	1733.5	1733.5	1731.4
10°	1708.7	1713.0	1720.6	1719.5	1714.1
12.5°	1690.4	1693.6	1702.2	1702.2	1699.0
15°	1663.4	1669.8	1680.6	1687.1	1682.8
17.5°	1635.3	1641.8	1655.8	1662.3	1660.1
20°	1604.0	1609.4	1623.4	1633.1	1628.8
22.5°	1565.1	1571.6	1587.8	1598.6	1594.3
25°	1522.0	1531.7	1549.0	1565.1	1559.7
27.5°	1478.8	1489.6	1511.2	1527.4	1525.2
30°	1431.3	1445.3	1468.0	1488.5	1484.2
32.5°	1382.7	1398.9	1422.7	1444.3	1443.2
35°	1332.0	1349.3	1375.2	1400.0	1398.9
37.5°	1278.0	1298.5	1325.5	1352.5	1353.6
40°	1225.1	1244.6	1274.8	1303.9	1305.0
42.5°	1169.0	1189.5	1221.9	1252.1	1253.2
45°	1109.6	1133.4	1165.8	1198.1	1203.5
47.5°	1049.2	1074.0	1107.5	1142.0	1148.5
50°	986.6	1012.5	1048.1	1084.8	1091.3
52.5°	922.9	949.9	986.6	1023.3	1033.0
55°	860.3	885.1	925.1	965.0	973.6
57.5°	794.4	817.1	860.3	902.4	913.2
60°	722.1	750.2	794.4	836.5	853.8
62.5°	652.0	682.2	727.5	769.6	789.0
65°	581.8	612.0	658.4	702.7	722.1
67.5°	510.6	541.9	591.5	633.6	655.2
70°	439.3	470.6	518.1	563.5	586.1
72.5°	368.1	401.5	448.0	494.4	517.0
75°	295.8	330.3	377.8	423.1	451.2
77.5°	227.8	261.2	308.7	355.1	378.9
80°	163.0	196.5	242.9	289.3	314.1
82.5°	103.6	134.9	180.3	219.1	241.8
85°	54.0	79.9	114.4	127.4	142.5
87.5°	16.2	31.3	44.3	49.7	61.5
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	17.42	19.08	17.78	19.40	19.71	18.17	19.83	18.53	20.14	20.46
	3H	19.18	20.69	19.56	21.01	21.37	20.26	21.77	20.64	22.09	22.45
	4H	19.81	21.23	20.20	21.58	21.95	21.14	22.57	21.54	22.91	23.29
	6H	20.22	21.54	20.63	21.90	22.29	21.91	23.23	22.32	23.60	23.99
	8H	20.32	21.59	20.75	21.98	22.37	22.22	23.49	22.65	23.87	24.27
	12H	20.38	21.59	20.81	21.97	22.40	22.44	23.65	22.87	24.03	24.46
4H	2H	18.19	19.61	18.59	19.96	20.33	18.77	20.19	19.17	20.54	20.91
	3H	20.18	21.38	20.59	21.78	22.18	21.10	22.30	21.51	22.69	23.09
	4H	20.94	22.02	21.37	22.44	22.87	22.13	23.22	22.56	23.63	24.07
	6H	21.47	22.42	21.93	22.86	23.32	23.06	24.01	23.51	24.45	24.91
	8H	21.62	22.51	22.08	22.95	23.42	23.45	24.34	23.90	24.78	25.24
	12H	21.71	22.51	22.18	22.98	23.45	23.72	24.53	24.20	25.00	25.47
8H	4H	21.39	22.28	21.85	22.72	23.19	22.43	23.32	22.89	23.77	24.23
	6H	22.07	22.81	22.56	23.30	23.77	23.52	24.26	24.01	24.75	25.22
	8H	22.29	22.96	22.79	23.46	23.94	24.00	24.67	24.51	25.18	25.66
	12H	22.43	23.03	22.94	23.52	24.07	24.38	24.97	24.88	25.46	26.02
12H	4H	21.47	22.28	21.95	22.75	23.22	22.46	23.26	22.94	23.74	24.21
	6H	22.19	22.86	22.70	23.37	23.85	23.57	24.24	24.08	24.74	25.23
	8H	22.49	23.08	22.99	23.57	24.13	24.12	24.71	24.63	25.20	25.76