

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: P1587783

Luminaire Tested: 22CZSP-SB-54HE-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587783
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-L930
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 5000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

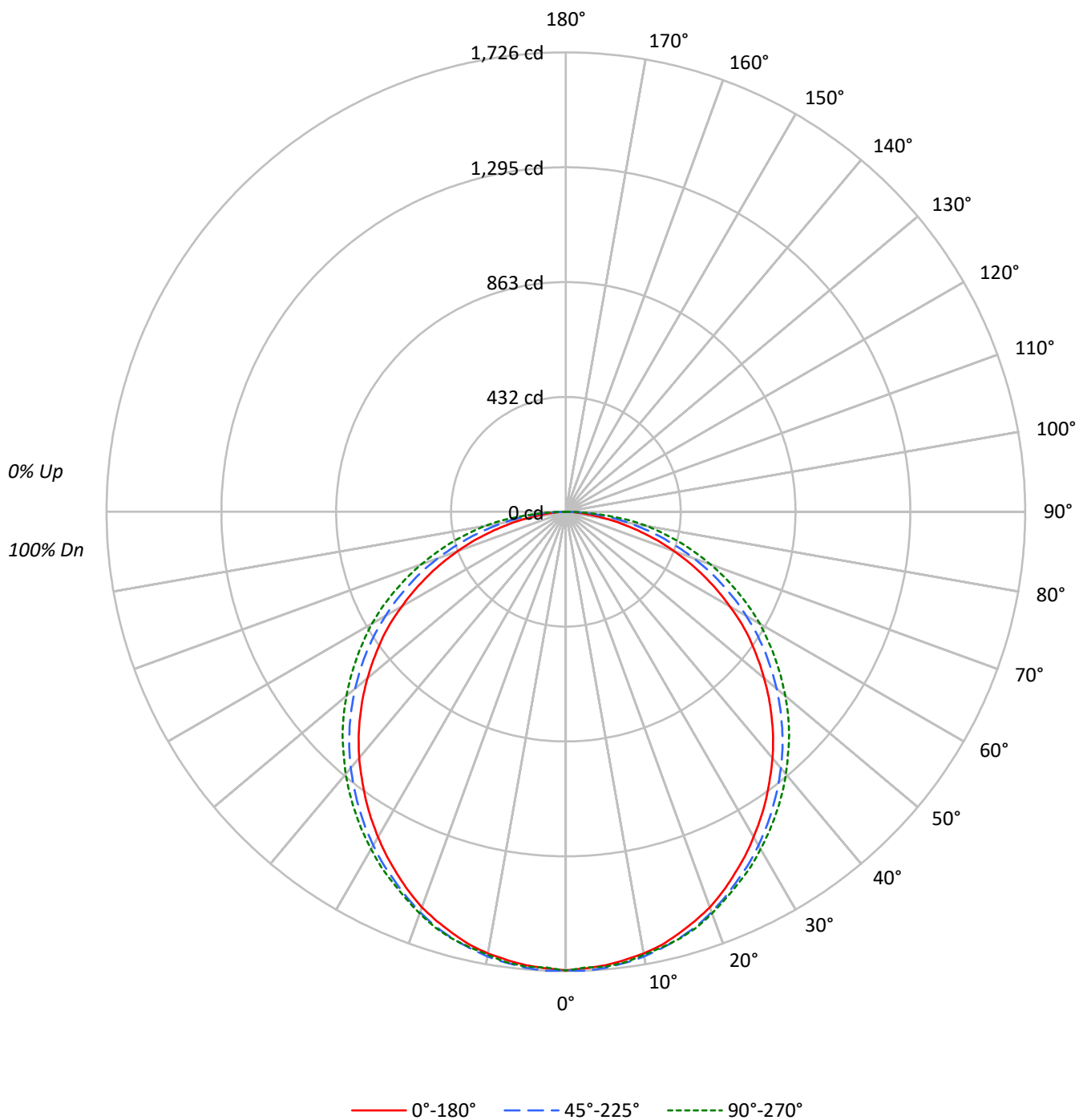
Lumens per Lamp: N/A
Luminaire Lumens: 5029.0 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	5396	5396	5396
5°	5377	5406	5393
10°	5357	5395	5374
15°	5317	5372	5379
20°	5271	5334	5352
25°	5185	5277	5314
30°	5103	5234	5292
35°	5021	5184	5273
40°	4938	5138	5260
45°	4846	5090	5256
50°	4739	5035	5242
55°	4631	4980	5241
60°	4460	4906	5273
65°	4251	4811	5276
70°	3966	4677	5292
75°	3528	4507	5383
80°	2898	4319	5585
85°	1911	4053	5048

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5719 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.0	3.2
10°-20°	466.6	9.3
20°-30°	703.3	14.0
30°-40°	846.9	16.8
40°-50°	884.8	17.6
50°-60°	812.9	16.2
60°-70°	640.1	12.7
70°-80°	392.5	7.8
80°-90°	119.0	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°	1332.9	26.5
0°-40°	2179.8	43.3
0°-60°	3877.4	77.1
0°-90°	5029.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5029.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1723	1723	1723	1723	1723	
5°	1710	1714	1720	1718	1716	162
15°	1640	1647	1657	1664	1659	463
25°	1501	1510	1527	1543	1538	692
35°	1313	1330	1356	1380	1379	822
45°	1094	1118	1150	1182	1187	844
55°	848	873	912	952	960	757
65°	574	604	649	693	712	567
75°	292	326	372	417	445	310
85°	53	79	113	126	140	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1723.2	1723.2	1723.2	1723.2	1723.2
2.5°	1716.9	1721.1	1726.4	1717.9	1713.7
5°	1710.5	1713.7	1720.0	1717.9	1715.8
7.5°	1698.8	1700.9	1709.4	1709.4	1707.3
10°	1684.9	1689.2	1696.6	1695.6	1690.2
12.5°	1666.8	1670.0	1678.5	1678.5	1675.3
15°	1640.2	1646.6	1657.2	1663.6	1659.4
17.5°	1612.5	1618.9	1632.8	1639.2	1637.0
20°	1581.7	1587.0	1600.8	1610.4	1606.2
22.5°	1543.4	1549.7	1565.7	1576.4	1572.1
25°	1500.8	1510.4	1527.4	1543.4	1538.0
27.5°	1458.2	1468.8	1490.1	1506.1	1504.0
30°	1411.4	1425.2	1447.6	1467.8	1463.5
32.5°	1363.5	1379.4	1402.9	1424.1	1423.1
35°	1313.4	1330.5	1356.0	1380.5	1379.4
37.5°	1260.2	1280.5	1307.1	1333.7	1334.7
40°	1208.1	1227.2	1257.0	1285.8	1286.8
42.5°	1152.7	1173.0	1204.9	1234.7	1235.7
45°	1094.2	1117.6	1149.5	1181.5	1186.8
47.5°	1034.6	1059.1	1092.1	1126.1	1132.5
50°	972.8	998.4	1033.5	1069.7	1076.1
52.5°	910.0	936.7	972.8	1009.0	1018.6
55°	848.3	872.8	912.2	951.6	960.1
57.5°	783.4	805.7	848.3	889.8	900.5
60°	712.1	739.7	783.4	824.9	841.9
62.5°	642.9	672.7	717.4	758.9	778.1
65°	573.7	603.5	649.3	692.9	712.1
67.5°	503.5	534.3	583.3	624.8	646.1
70°	433.2	464.1	510.9	555.6	578.0
72.5°	363.0	396.0	441.7	487.5	509.8
75°	291.6	325.7	372.5	417.2	444.9
77.5°	224.6	257.6	304.4	350.2	373.6
80°	160.7	193.7	239.5	285.3	309.7
82.5°	102.2	133.0	177.8	216.1	238.4
85°	53.2	78.8	112.8	125.6	140.5
87.5°	16.0	30.9	43.6	49.0	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	17.37	19.03	17.73	19.35	19.66	18.12	19.78	18.48	20.09	20.41
	3H	19.13	20.64	19.51	20.97	21.33	20.21	21.72	20.59	22.05	22.41
	4H	19.76	21.18	20.15	21.53	21.90	21.10	22.52	21.49	22.87	23.24
	6H	20.17	21.49	20.58	21.85	22.24	21.86	23.18	22.27	23.55	23.94
	8H	20.28	21.54	20.70	21.93	22.32	22.17	23.44	22.60	23.83	24.22
	12H	20.33	21.54	20.76	21.92	22.35	22.39	23.60	22.82	23.98	24.41
4H	2H	18.14	19.56	18.54	19.91	20.28	18.72	20.14	19.12	20.49	20.86
	3H	20.13	21.33	20.54	21.73	22.13	21.05	22.25	21.46	22.64	23.04
	4H	20.89	21.97	21.32	22.39	22.82	22.08	23.17	22.51	23.58	24.02
	6H	21.42	22.38	21.88	22.82	23.27	23.01	23.97	23.47	24.41	24.86
	8H	21.57	22.46	22.03	22.90	23.37	23.40	24.29	23.86	24.73	25.20
	12H	21.66	22.46	22.14	22.93	23.40	23.67	24.48	24.15	24.95	25.42
8H	4H	21.34	22.23	21.80	22.67	23.14	22.38	23.28	22.84	23.72	24.18
	6H	22.02	22.76	22.51	23.25	23.72	23.47	24.21	23.96	24.70	25.17
	8H	22.24	22.91	22.74	23.41	23.90	23.95	24.62	24.46	25.13	25.61
	12H	22.39	22.98	22.89	23.47	24.03	24.33	24.92	24.83	25.41	25.97
12H	4H	21.42	22.23	21.90	22.70	23.17	22.41	23.21	22.89	23.69	24.16
	6H	22.14	22.82	22.65	23.32	23.80	23.52	24.19	24.03	24.69	25.18
	8H	22.44	23.03	22.94	23.52	24.08	24.07	24.67	24.58	25.15	25.71