

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: P1587782

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587782
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-L930-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 5000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

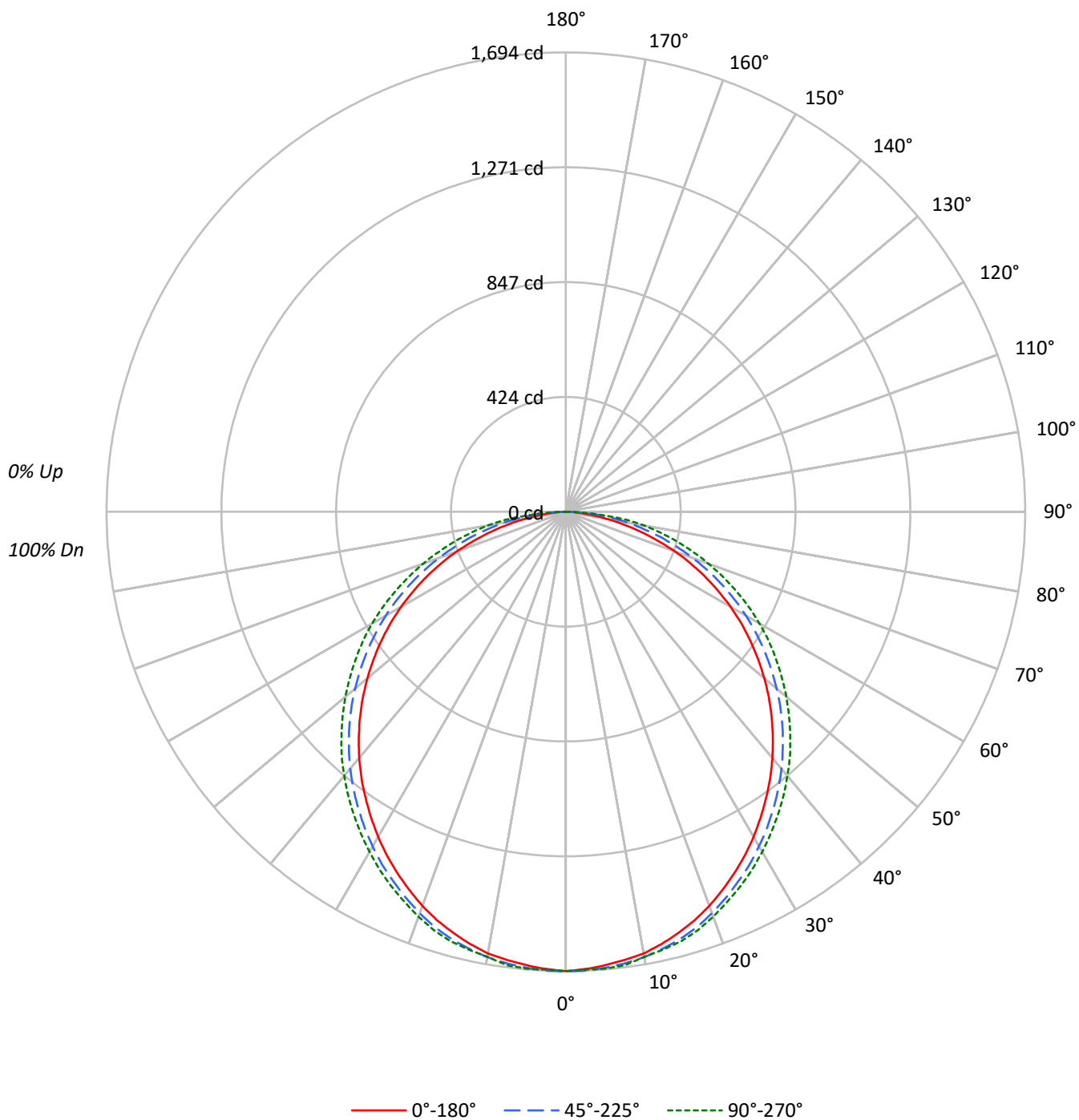
Lumens per Lamp: N/A
Luminaire Lumens: 4928.0 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	5305	5305	5305
5°	5275	5305	5315
10°	5258	5302	5299
15°	5210	5286	5317
20°	5154	5249	5295
25°	5080	5197	5263
30°	5006	5152	5236
35°	4924	5102	5211
40°	4845	5057	5196
45°	4756	5004	5183
50°	4653	4942	5170
55°	4537	4879	5162
60°	4395	4807	5165
65°	4194	4705	5137
70°	3921	4562	5124
75°	3476	4387	5143
80°	2829	4167	5296
85°	1829	3848	4570

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5367 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.3	3.3
10°-20°	459.1	9.3
20°-30°	692.2	14.0
30°-40°	832.9	16.9
40°-50°	868.8	17.6
50°-60°	796.3	16.2
60°-70°	625.3	12.7
70°-80°	380.6	7.7
80°-90°	112.6	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°	1311.6	26.6
0°-40°	2144.5	43.5
0°-60°	3809.5	77.3
0°-90°	4928.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4928.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1694	1694	1694	1694	1694	
5°	1678	1689	1688	1686	1691	159
15°	1607	1623	1630	1633	1640	453
25°	1470	1490	1504	1514	1523	678
35°	1288	1308	1335	1354	1363	806
45°	1074	1096	1130	1157	1170	828
55°	831	852	894	930	946	743
65°	566	587	635	677	693	560
75°	287	314	363	406	425	305
85°	51	72	107	120	127	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1694.1	1694.1	1694.1	1694.1	1694.1
2.5°	1687.7	1696.2	1694.1	1686.7	1689.8
5°	1678.2	1688.8	1687.7	1685.6	1690.9
7.5°	1666.5	1678.2	1679.2	1679.2	1685.6
10°	1653.8	1665.5	1667.6	1664.4	1666.5
12.5°	1632.6	1646.4	1650.6	1650.6	1653.8
15°	1607.1	1623.0	1630.5	1632.6	1640.0
17.5°	1579.6	1596.5	1606.1	1611.4	1617.7
20°	1546.7	1564.7	1575.3	1581.7	1589.1
22.5°	1509.6	1529.8	1541.4	1547.8	1556.3
25°	1470.4	1490.5	1504.3	1513.9	1523.4
27.5°	1429.0	1448.1	1467.2	1478.9	1487.4
30°	1384.5	1404.7	1424.8	1439.6	1448.1
32.5°	1336.8	1358.0	1381.3	1397.2	1406.8
35°	1288.0	1308.2	1334.7	1353.8	1363.3
37.5°	1238.2	1259.4	1287.0	1307.1	1318.8
40°	1185.2	1207.5	1237.2	1259.4	1271.1
42.5°	1130.1	1151.3	1184.2	1209.6	1223.4
45°	1073.9	1096.2	1130.1	1156.6	1170.4
47.5°	1015.6	1036.8	1073.9	1104.6	1116.3
50°	955.2	975.3	1014.5	1047.4	1061.2
52.5°	893.7	914.9	954.1	989.1	1003.9
55°	831.1	852.3	893.7	929.7	945.6
57.5°	767.5	788.7	831.1	868.2	887.3
60°	701.8	723.0	767.5	805.7	824.8
62.5°	634.0	656.2	701.8	741.0	761.2
65°	566.1	587.3	635.0	677.4	693.3
67.5°	498.3	519.5	566.1	608.5	627.6
70°	428.3	452.7	498.3	542.8	559.7
72.5°	355.1	382.7	428.3	474.9	491.9
75°	287.3	313.8	362.6	406.0	425.1
77.5°	220.5	249.1	294.7	339.2	358.3
80°	156.9	184.5	231.1	273.5	293.7
82.5°	99.7	124.0	170.7	208.8	223.7
85°	50.9	72.1	107.1	119.8	127.2
87.5°	14.8	25.4	38.2	47.7	53.0
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	17.30	18.96	17.66	19.27	19.58	18.03	19.69	18.40	20.01	20.32
	3H	19.07	20.57	19.44	20.90	21.26	20.11	21.62	20.49	21.94	22.30
	4H	19.68	21.10	20.08	21.45	21.83	20.98	22.40	21.37	22.74	23.12
	6H	20.09	21.41	20.50	21.77	22.17	21.72	23.04	22.13	23.40	23.79
	8H	20.20	21.46	20.62	21.84	22.24	22.02	23.28	22.44	23.66	24.06
	12H	20.25	21.45	20.67	21.83	22.26	22.21	23.42	22.64	23.80	24.23
4H	2H	18.07	19.48	18.46	19.83	20.21	18.64	20.06	19.03	20.40	20.78
	3H	20.06	21.25	20.47	21.65	22.05	20.95	22.14	21.36	22.54	22.94
	4H	20.80	21.88	21.23	22.30	22.73	21.97	23.05	22.40	23.46	23.90
	6H	21.33	22.28	21.78	22.72	23.17	22.87	23.82	23.33	24.26	24.72
	8H	21.47	22.36	21.93	22.80	23.26	23.24	24.13	23.70	24.57	25.04
	12H	21.55	22.35	22.03	22.83	23.29	23.49	24.30	23.97	24.77	25.24
8H	4H	21.24	22.13	21.70	22.58	23.04	22.27	23.15	22.72	23.60	24.06
	6H	21.91	22.65	22.40	23.14	23.61	23.32	24.06	23.82	24.55	25.03
	8H	22.12	22.78	22.62	23.29	23.77	23.79	24.46	24.30	24.97	25.45
	12H	22.25	22.84	22.76	23.33	23.89	24.15	24.74	24.65	25.23	25.78
12H	4H	21.33	22.13	21.80	22.60	23.07	22.29	23.09	22.77	23.57	24.04
	6H	22.03	22.70	22.54	23.20	23.69	23.37	24.04	23.88	24.55	25.03
	8H	22.31	22.90	22.81	23.39	23.95	23.91	24.50	24.42	24.99	25.55