

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: P1586502

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586502
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-54HE-L930-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 5000 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

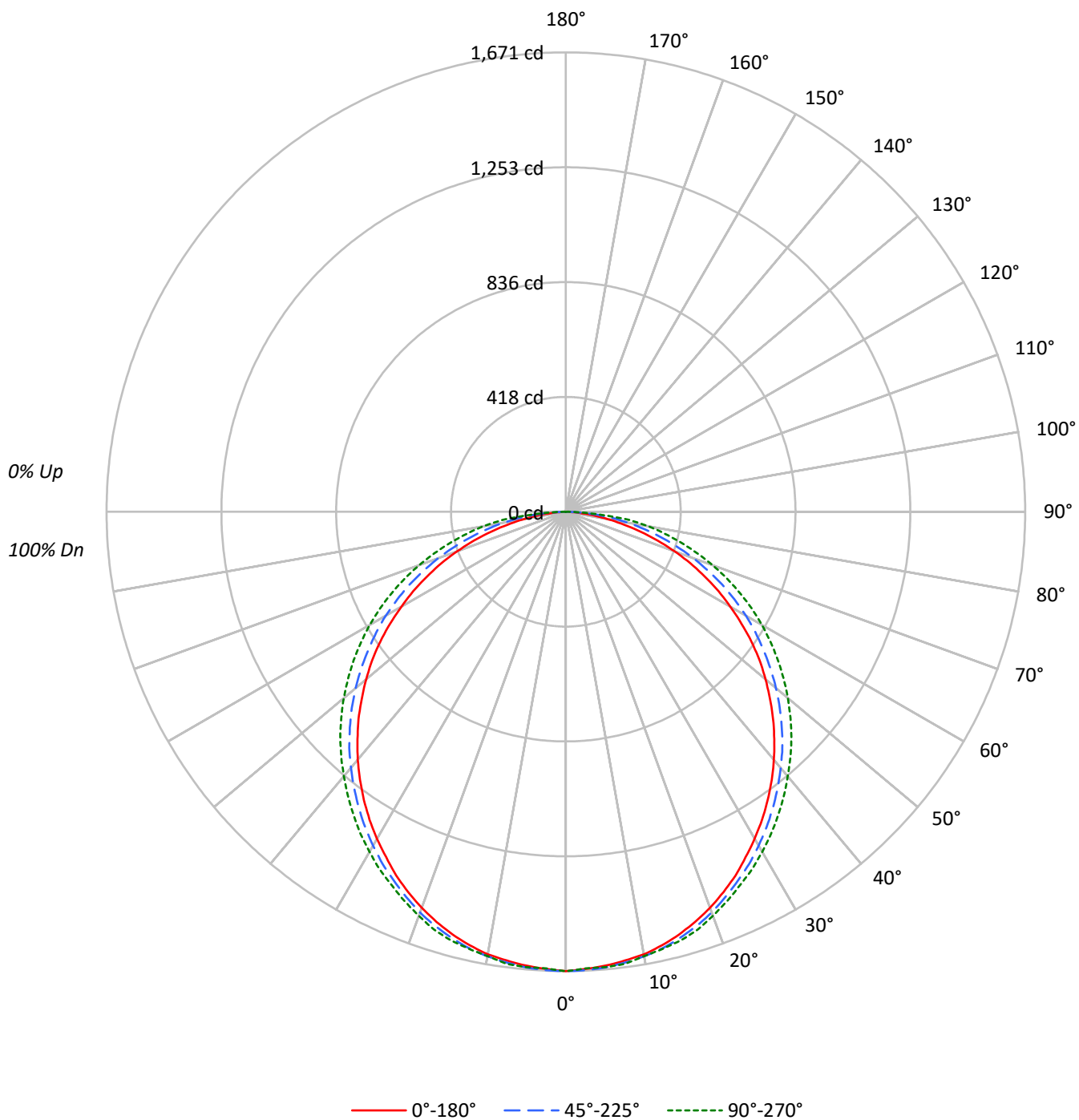
Lumens per Lamp: N/A
Luminaire Lumens: 4879.0 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	69
3	89	79	70	64	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°	5233	5233	5233
5°	5209	5229	5226
10°	5198	5222	5218
15°	5161	5202	5234
20°	5109	5169	5212
25°	5045	5116	5178
30°	4967	5071	5164
35°	4895	5021	5148
40°	4814	4971	5133
45°	4722	4921	5139
50°	4621	4861	5137
55°	4501	4793	5143
60°	4331	4740	5156
65°	4133	4649	5172
70°	3852	4518	5195
75°	3432	4339	5246
80°	2838	4131	5502
85°	1847	3729	4807

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5676 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.0	3.2
10°-20°	452.6	9.3
20°-30°	682.5	14.0
30°-40°	822.1	16.8
40°-50°	858.6	17.6
50°-60°	788.5	16.2
60°-70°	621.0	12.7
70°-80°	381.0	7.8
80°-90°	114.7	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°	1293.1	26.5
0°-40°	2115.2	43.4
0°-60°	3762.3	77.1
0°-90°	4879.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4879.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1671	1671	1671	1671	1671	
5°	1657	1659	1664	1669	1663	157
15°	1592	1595	1605	1614	1614	449
25°	1460	1464	1481	1499	1499	672
35°	1280	1287	1314	1340	1347	801
45°	1066	1078	1111	1150	1160	822
55°	824	839	878	927	942	736
65°	558	577	627	680	698	552
75°	284	306	359	415	434	301
85°	51	71	104	132	134	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1671.2	1671.2	1671.2	1671.2	1671.2
2.5°	1664.8	1668.0	1669.0	1670.1	1662.6
5°	1657.3	1659.4	1663.7	1669.0	1662.6
7.5°	1646.6	1648.7	1654.1	1661.6	1658.3
10°	1634.8	1635.9	1642.3	1647.6	1641.2
12.5°	1615.5	1618.7	1626.2	1630.5	1628.4
15°	1592.0	1595.2	1604.8	1614.4	1614.4
17.5°	1564.1	1568.4	1580.2	1593.0	1594.1
20°	1533.1	1536.3	1551.3	1564.1	1564.1
22.5°	1497.8	1502.0	1517.0	1530.9	1533.1
25°	1460.3	1463.5	1480.6	1498.8	1498.8
27.5°	1416.4	1422.8	1444.2	1462.4	1466.7
30°	1373.6	1378.9	1402.5	1425.0	1428.2
32.5°	1328.6	1335.0	1359.6	1384.3	1389.6
35°	1280.4	1286.8	1313.6	1340.4	1346.8
37.5°	1230.1	1237.6	1265.4	1296.5	1302.9
40°	1177.6	1186.2	1216.2	1249.4	1255.8
42.5°	1122.0	1133.8	1165.9	1200.1	1209.8
45°	1066.3	1078.1	1111.3	1149.8	1160.5
47.5°	1007.4	1021.3	1055.6	1096.3	1108.1
50°	948.5	962.5	997.8	1041.7	1054.5
52.5°	888.6	902.5	938.9	984.9	998.9
55°	824.4	839.3	877.9	927.1	942.1
57.5°	758.0	777.2	817.9	868.2	883.2
60°	691.6	710.9	756.9	806.2	823.3
62.5°	626.3	644.5	691.6	744.1	762.3
65°	557.8	577.0	627.4	679.8	698.0
67.5°	490.3	509.6	559.9	614.5	633.8
70°	420.7	442.2	493.5	548.1	567.4
72.5°	351.2	373.6	426.1	481.8	500.0
75°	283.7	306.2	358.6	415.4	433.6
77.5°	217.3	242.0	293.3	351.2	368.3
80°	157.4	180.9	229.1	285.8	305.1
82.5°	100.6	121.0	169.2	222.7	236.6
85°	51.4	70.7	103.8	131.7	133.8
87.5°	16.1	22.5	34.3	51.4	52.5
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	17.23	18.89	17.59	19.20	19.52	18.06	19.72	18.42	20.03	20.35
	3H	18.98	20.49	19.36	20.82	21.18	20.17	21.68	20.55	22.01	22.37
	4H	19.60	21.02	20.00	21.37	21.75	21.06	22.49	21.46	22.83	23.21
	6H	20.01	21.33	20.42	21.70	22.09	21.84	23.17	22.26	23.53	23.92
	8H	20.12	21.38	20.54	21.77	22.17	22.16	23.43	22.59	23.82	24.21
	12H	20.17	21.38	20.60	21.76	22.19	22.38	23.59	22.80	23.97	24.40
4H	2H	18.00	19.42	18.40	19.77	20.14	18.65	20.07	19.04	20.42	20.79
	3H	19.98	21.18	20.39	21.57	21.97	21.00	22.20	21.41	22.60	22.99
	4H	20.71	21.80	21.14	22.21	22.65	22.05	23.14	22.48	23.55	23.99
	6H	21.24	22.19	21.70	22.63	23.09	23.01	23.96	23.46	24.40	24.85
	8H	21.39	22.28	21.85	22.72	23.19	23.40	24.29	23.86	24.74	25.20
	12H	21.47	22.28	21.95	22.75	23.22	23.68	24.48	24.16	24.96	25.43
8H	4H	21.17	22.06	21.63	22.51	22.97	22.34	23.23	22.80	23.68	24.14
	6H	21.83	22.58	22.33	23.06	23.54	23.45	24.20	23.95	24.68	25.16
	8H	22.04	22.71	22.55	23.22	23.70	23.97	24.63	24.47	25.14	25.62
	12H	22.18	22.78	22.69	23.27	23.82	24.35	24.94	24.86	25.43	25.99
12H	4H	21.26	22.07	21.74	22.54	23.01	22.37	23.17	22.85	23.64	24.11
	6H	21.97	22.64	22.47	23.14	23.63	23.50	24.17	24.01	24.68	25.16
	8H	22.24	22.84	22.75	23.33	23.88	24.08	24.67	24.58	25.16	25.72