

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: P1586743

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-668-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-A-54HE-L930
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 5000 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

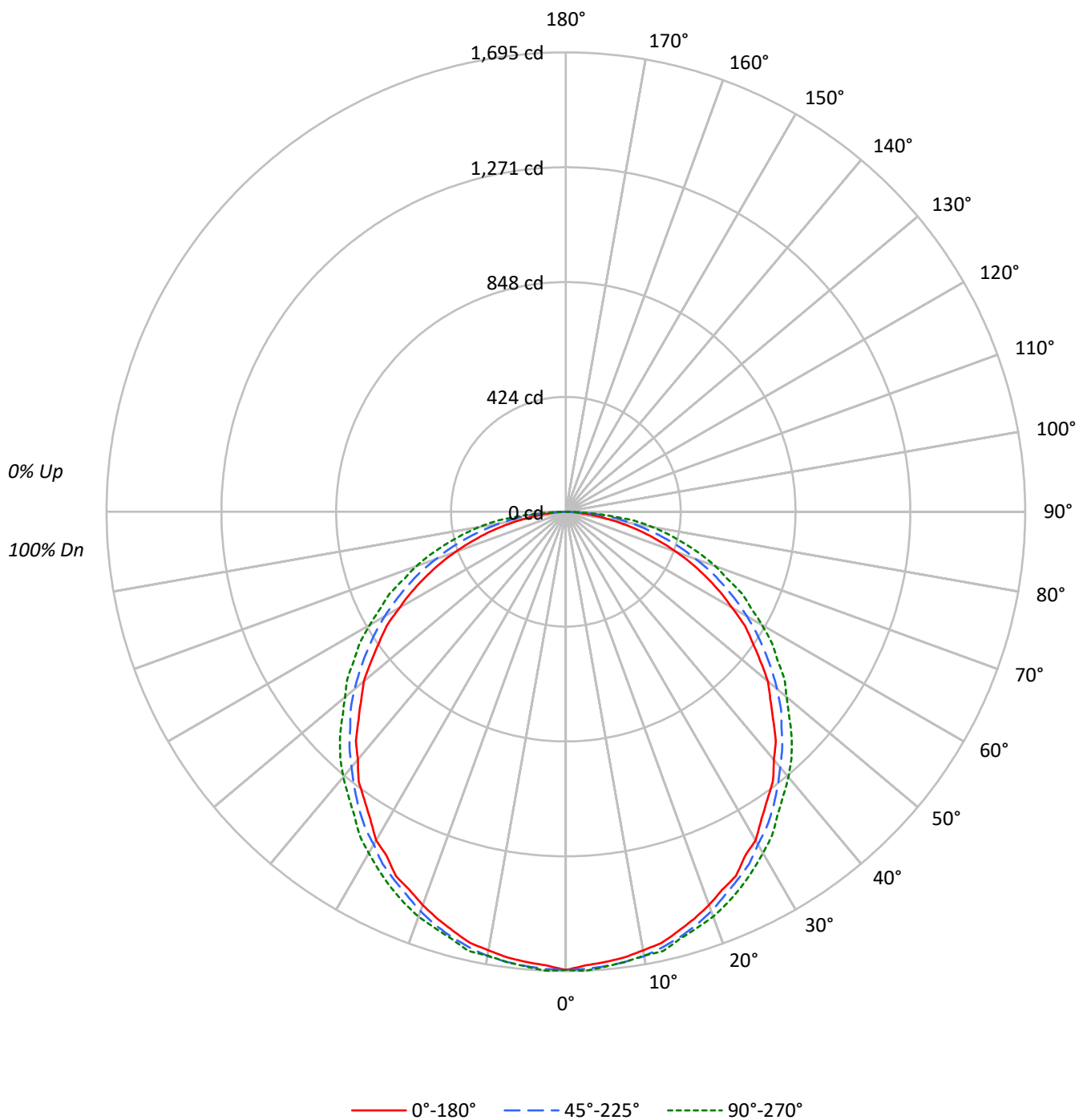
Lumens per Lamp: N/A
Luminaire Lumens: 4979.0 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45		56	50	44		55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39		51	44	39		49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35		46	40	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		41	35	31	29
9	56	42	34	28	54	41	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5293	5293	5293
5°	5242	5290	5294
10°	5225	5292	5288
15°	5194	5268	5287
20°	5146	5227	5298
25°	5125	5177	5283
30°	5060	5126	5259
35°	4954	5094	5210
40°	4881	5030	5223
45°	4788	4984	5220
50°	4740	4956	5178
55°	4589	4889	5204
60°	4435	4835	5236
65°	4243	4762	5326
70°	3987	4671	5382
75°	3593	4588	5490
80°	2939	4505	5850
85°	1915	4487	5472

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6137 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.8	3.2
10°-20°	457.5	9.2
20°-30°	691.5	13.9
30°-40°	834.0	16.8
40°-50°	871.9	17.5
50°-60°	804.0	16.1
60°-70°	637.1	12.8
70°-80°	398.3	8.0
80°-90°	124.9	2.5
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°	1308.8	26.3
0°-40°	2142.8	43.0
0°-60°	3818.6	76.7
0°-90°	4979.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4979.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1690	1690	1690	1690	1690	
5°	1668	1675	1683	1689	1684	159
15°	1602	1610	1625	1636	1631	452
25°	1483	1479	1498	1520	1529	680
35°	1296	1311	1332	1355	1363	813
45°	1081	1096	1125	1154	1179	837
55°	841	860	896	944	953	754
65°	573	597	643	693	719	567
75°	297	321	379	432	454	313
85°	53	76	125	146	152	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1690.4	1690.4	1690.4	1690.4	1690.4
2.5°	1675.2	1682.8	1688.9	1687.4	1695.0
5°	1667.6	1675.2	1682.8	1688.9	1684.3
7.5°	1658.4	1666.1	1675.2	1684.3	1675.2
10°	1643.2	1647.8	1664.5	1666.1	1663.0
12.5°	1629.5	1634.1	1646.3	1656.9	1660.0
15°	1602.1	1609.7	1624.9	1635.6	1631.0
17.5°	1574.7	1585.3	1599.0	1609.7	1609.7
20°	1544.2	1551.8	1568.6	1576.2	1589.9
22.5°	1509.2	1518.3	1532.0	1553.4	1561.0
25°	1483.3	1478.7	1498.5	1519.9	1529.0
27.5°	1431.5	1437.6	1465.0	1484.8	1492.4
30°	1399.5	1402.6	1417.8	1445.2	1454.4
32.5°	1343.2	1352.3	1379.7	1399.5	1416.3
35°	1296.0	1311.2	1332.5	1355.4	1363.0
37.5°	1254.9	1257.9	1282.3	1312.7	1318.8
40°	1194.0	1212.2	1230.5	1268.6	1277.7
42.5°	1146.7	1155.9	1181.8	1218.3	1232.0
45°	1081.3	1096.5	1125.4	1154.4	1178.7
47.5°	1023.4	1038.6	1076.7	1113.2	1117.8
50°	973.1	979.2	1017.3	1058.4	1063.0
52.5°	904.6	919.8	956.4	1002.1	1017.3
55°	840.6	860.4	895.5	944.2	953.3
57.5°	784.3	793.4	834.5	883.3	901.6
60°	708.1	734.0	772.1	819.3	836.1
62.5°	642.7	667.0	708.1	752.3	770.6
65°	572.6	597.0	642.7	692.9	718.8
67.5°	505.6	525.4	580.2	632.0	644.2
70°	435.5	458.4	510.2	563.5	587.8
72.5°	362.4	388.3	446.2	496.5	522.4
75°	297.0	321.3	379.2	432.5	453.8
77.5°	228.4	255.8	312.2	365.5	389.9
80°	163.0	190.4	249.8	303.1	324.4
82.5°	105.1	134.0	190.4	237.6	255.8
85°	53.3	76.1	124.9	146.2	152.3
87.5°	16.8	27.4	42.6	48.7	48.7
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	17.31	18.98	17.68	19.30	19.61	18.10	19.77	18.47	20.09	20.40
	3H	19.10	20.61	19.47	20.93	21.29	20.25	21.76	20.62	22.09	22.45
	4H	19.73	21.16	20.13	21.51	21.88	21.17	22.60	21.57	22.95	23.32
	6H	20.16	21.49	20.57	21.85	22.24	22.00	23.32	22.41	23.69	24.08
	8H	20.27	21.54	20.70	21.93	22.33	22.34	23.61	22.77	24.00	24.40
	12H	20.33	21.54	20.76	21.92	22.35	22.59	23.80	23.01	24.18	24.61
4H	2H	18.09	19.51	18.48	19.86	20.24	18.70	20.13	19.10	20.48	20.85
	3H	20.10	21.30	20.51	21.70	22.10	21.09	22.29	21.50	22.69	23.09
	4H	20.86	21.95	21.29	22.36	22.80	22.17	23.27	22.60	23.68	24.11
	6H	21.41	22.36	21.86	22.80	23.26	23.17	24.13	23.62	24.57	25.02
	8H	21.56	22.46	22.02	22.90	23.36	23.60	24.50	24.06	24.94	25.40
	12H	21.65	22.46	22.13	22.93	23.40	23.91	24.72	24.39	25.20	25.66
8H	4H	21.34	22.24	21.80	22.68	23.14	22.48	23.38	22.94	23.82	24.28
	6H	22.03	22.78	22.52	23.26	23.74	23.65	24.40	24.14	24.88	25.36
	8H	22.26	22.93	22.76	23.43	23.92	24.19	24.86	24.70	25.37	25.85
	12H	22.40	23.00	22.91	23.49	24.05	24.62	25.22	25.12	25.71	26.26
12H	4H	21.43	22.24	21.91	22.72	23.19	22.51	23.32	22.99	23.79	24.26
	6H	22.18	22.85	22.68	23.36	23.84	23.70	24.38	24.21	24.88	25.37
	8H	22.48	23.08	22.98	23.57	24.12	24.32	24.92	24.82	25.41	25.96