

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: P1586751

Luminaire Tested: 22CZSP-A-54HE-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586751
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-L950
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 5000 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

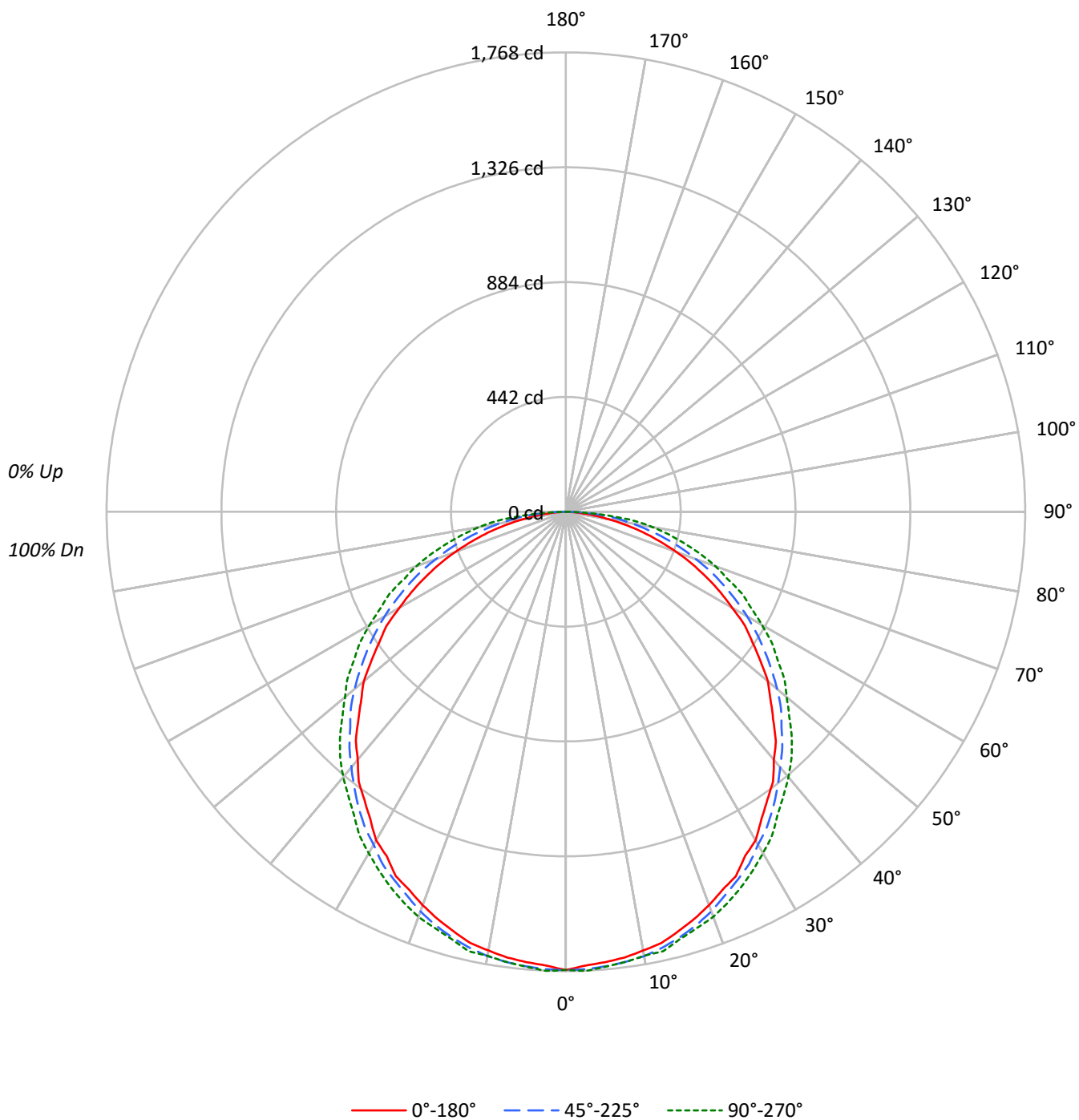
Lumens per Lamp: N/A
Luminaire Lumens: 5195.0 lumens
Efficiency: N/A
Efficacy: 143.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	5523	5523	5523
5°	5469	5519	5524
10°	5451	5522	5517
15°	5419	5496	5517
20°	5369	5454	5528
25°	5347	5402	5512
30°	5280	5349	5487
35°	5169	5315	5436
40°	5092	5248	5449
45°	4996	5200	5446
50°	4946	5171	5403
55°	4788	5101	5430
60°	4627	5045	5463
65°	4427	4968	5557
70°	4160	4873	5615
75°	3748	4787	5729
80°	3066	4699	6102
85°	1998	4681	5709

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6403 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.7	3.2
10°-20°	477.4	9.2
20°-30°	721.5	13.9
30°-40°	870.2	16.8
40°-50°	909.7	17.5
50°-60°	838.9	16.1
60°-70°	664.7	12.8
70°-80°	415.6	8.0
80°-90°	130.3	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°	1365.6	26.3
0°-40°	2235.8	43.0
0°-60°	3984.3	76.7
0°-90°	5195.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5195.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1764	1764	1764	1764	1764	
5°	1740	1748	1756	1762	1757	165
15°	1672	1680	1695	1706	1702	472
25°	1548	1543	1564	1586	1595	710
35°	1352	1368	1390	1414	1422	848
45°	1128	1144	1174	1204	1230	873
55°	877	898	934	985	995	786
65°	598	623	670	723	750	592
75°	310	335	396	451	474	326
85°	56	79	130	152	159	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1763.8	1763.8	1763.8	1763.8	1763.8
2.5°	1747.9	1755.8	1762.2	1760.6	1768.5
5°	1739.9	1747.9	1755.8	1762.2	1757.4
7.5°	1730.4	1738.3	1747.9	1757.4	1747.9
10°	1714.5	1719.3	1736.7	1738.3	1735.1
12.5°	1700.2	1705.0	1717.7	1728.8	1732.0
15°	1671.6	1679.5	1695.4	1706.5	1701.8
17.5°	1643.0	1654.1	1668.4	1679.5	1679.5
20°	1611.2	1619.2	1636.6	1644.6	1658.9
22.5°	1574.7	1584.2	1598.5	1620.7	1628.7
25°	1547.7	1542.9	1563.5	1585.8	1595.3
27.5°	1493.6	1500.0	1528.6	1549.2	1557.2
30°	1460.3	1463.4	1479.3	1507.9	1517.5
32.5°	1401.5	1411.0	1439.6	1460.3	1477.7
35°	1352.2	1368.1	1390.3	1414.2	1422.1
37.5°	1309.3	1312.5	1337.9	1369.7	1376.0
40°	1245.7	1264.8	1283.9	1323.6	1333.1
42.5°	1196.5	1206.0	1233.0	1271.2	1285.5
45°	1128.2	1144.1	1174.2	1204.4	1229.9
47.5°	1067.8	1083.7	1123.4	1161.5	1166.3
50°	1015.3	1021.7	1061.4	1104.3	1109.1
52.5°	943.8	959.7	997.9	1045.5	1061.4
55°	877.1	897.8	934.3	985.2	994.7
57.5°	818.3	827.9	870.8	921.6	940.7
60°	738.9	765.9	805.6	854.9	872.3
62.5°	670.5	696.0	738.9	784.9	804.0
65°	597.5	622.9	670.5	723.0	750.0
67.5°	527.5	548.2	605.4	659.4	672.1
70°	454.4	478.3	532.3	587.9	613.3
72.5°	378.2	405.2	465.6	518.0	545.0
75°	309.8	335.3	395.7	451.3	473.5
77.5°	238.3	266.9	325.7	381.4	406.8
80°	170.0	198.6	260.6	316.2	338.4
82.5°	109.6	139.8	198.6	247.9	266.9
85°	55.6	79.4	130.3	152.5	158.9
87.5°	17.5	28.6	44.5	50.8	50.8
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	17.46	19.13	17.83	19.44	19.76	18.25	19.92	18.62	20.23	20.55
	3H	19.24	20.76	19.62	21.08	21.44	20.40	21.91	20.77	22.23	22.59
	4H	19.88	21.31	20.28	21.66	22.03	21.32	22.75	21.72	23.09	23.47
	6H	20.31	21.63	20.72	22.00	22.39	22.14	23.47	22.55	23.83	24.22
	8H	20.42	21.69	20.84	22.08	22.47	22.49	23.76	22.91	24.15	24.55
	12H	20.47	21.69	20.90	22.07	22.50	22.73	23.95	23.16	24.33	24.76
4H	2H	18.23	19.66	18.63	20.01	20.38	18.85	20.28	19.25	20.62	21.00
	3H	20.24	21.45	20.65	21.85	22.24	21.23	22.44	21.64	22.83	23.23
	4H	21.01	22.10	21.44	22.51	22.95	22.32	23.41	22.75	23.83	24.26
	6H	21.55	22.51	22.01	22.95	23.40	23.32	24.28	23.77	24.72	25.17
	8H	21.71	22.61	22.17	23.05	23.51	23.75	24.64	24.20	25.08	25.55
	12H	21.80	22.61	22.28	23.08	23.55	24.06	24.87	24.54	25.34	25.81
8H	4H	21.49	22.38	21.94	22.82	23.29	22.63	23.53	23.09	23.97	24.43
	6H	22.18	22.93	22.67	23.41	23.89	23.79	24.54	24.28	25.03	25.50
	8H	22.40	23.08	22.91	23.58	24.07	24.34	25.01	24.84	25.52	26.00
	12H	22.55	23.15	23.06	23.64	24.20	24.77	25.36	25.27	25.85	26.41
12H	4H	21.58	22.39	22.06	22.87	23.33	22.66	23.47	23.14	23.94	24.41
	6H	22.32	23.00	22.83	23.50	23.99	23.85	24.53	24.36	25.03	25.51
	8H	22.63	23.22	23.13	23.71	24.27	24.47	25.06	24.97	25.55	26.11