

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: P1586750

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586750
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-A-54HE-L950-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 5000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

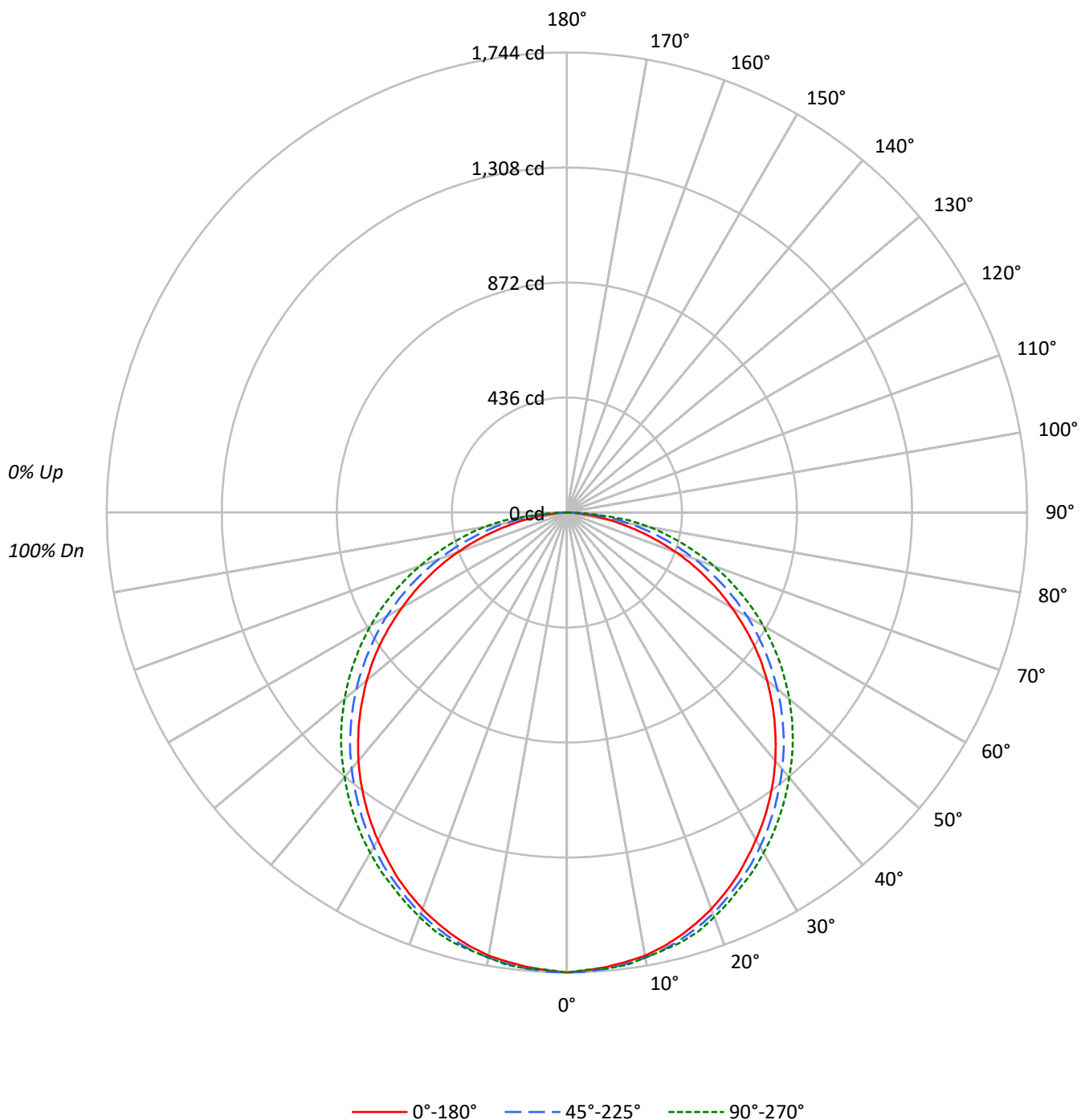
Lumens per Lamp: N/A
Luminaire Lumens: 5091.0 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	5460	5460	5460
5°	5436	5457	5453
10°	5424	5449	5445
15°	5385	5428	5461
20°	5331	5394	5439
25°	5264	5338	5403
30°	5182	5291	5388
35°	5107	5240	5372
40°	5023	5187	5356
45°	4927	5135	5362
50°	4822	5072	5360
55°	4696	5001	5367
60°	4520	4946	5380
65°	4312	4850	5397
70°	4019	4715	5421
75°	3581	4527	5473
80°	2961	4312	5742
85°	1926	3895	5016

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5923 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.9	3.2
10°-20°	472.2	9.3
20°-30°	712.2	14.0
30°-40°	857.8	16.8
40°-50°	895.9	17.6
50°-60°	822.8	16.2
60°-70°	648.0	12.7
70°-80°	397.6	7.8
80°-90°	119.6	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°	1349.3	26.5
0°-40°	2207.2	43.4
0°-60°	3925.8	77.1
0°-90°	5091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5091.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1744	1744	1744	1744	1744	
5°	1729	1732	1736	1742	1735	164
15°	1661	1664	1674	1685	1685	468
25°	1524	1527	1545	1564	1564	701
35°	1336	1343	1371	1399	1405	836
45°	1113	1125	1160	1200	1211	858
55°	860	876	916	967	983	768
65°	582	602	655	709	728	576
75°	296	320	374	433	452	314
85°	54	74	108	137	140	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1743.8	1743.8	1743.8	1743.8	1743.8
2.5°	1737.1	1740.5	1741.6	1742.7	1734.9
5°	1729.3	1731.5	1736.0	1741.6	1734.9
7.5°	1718.1	1720.3	1725.9	1733.7	1730.4
10°	1705.8	1706.9	1713.6	1719.2	1712.5
12.5°	1685.7	1689.1	1696.9	1701.4	1699.1
15°	1661.1	1664.5	1674.5	1684.6	1684.6
17.5°	1632.1	1636.6	1648.8	1662.3	1663.4
20°	1599.7	1603.0	1618.7	1632.1	1632.1
22.5°	1562.8	1567.3	1582.9	1597.5	1599.7
25°	1523.7	1527.1	1545.0	1563.9	1563.9
27.5°	1477.9	1484.6	1507.0	1526.0	1530.4
30°	1433.2	1438.8	1463.4	1486.9	1490.2
32.5°	1386.3	1393.0	1418.7	1444.4	1450.0
35°	1336.1	1342.8	1370.7	1398.6	1405.3
37.5°	1283.6	1291.4	1320.4	1352.8	1359.5
40°	1228.8	1237.8	1269.0	1303.7	1310.4
42.5°	1170.7	1183.0	1216.5	1252.3	1262.3
45°	1112.6	1124.9	1159.6	1199.8	1210.9
47.5°	1051.2	1065.7	1101.5	1143.9	1156.2
50°	989.8	1004.3	1041.1	1086.9	1100.3
52.5°	927.2	941.7	979.7	1027.7	1042.3
55°	860.2	875.8	916.0	967.4	983.1
57.5°	790.9	811.0	853.5	906.0	921.6
60°	721.7	741.8	789.8	841.2	859.1
62.5°	653.5	672.5	721.7	776.4	795.4
65°	582.0	602.1	654.6	709.4	728.4
67.5°	511.6	531.7	584.2	641.2	661.3
70°	439.0	461.4	515.0	572.0	592.1
72.5°	366.4	389.9	444.6	502.7	521.7
75°	296.0	319.5	374.2	433.4	452.4
77.5°	226.8	252.5	306.1	366.4	384.3
80°	164.2	188.8	239.1	298.3	318.4
82.5°	105.0	126.2	176.5	232.4	246.9
85°	53.6	73.7	108.4	137.4	139.6
87.5°	16.8	23.5	35.7	53.6	54.7
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	17.38	19.04	17.74	19.35	19.67	18.21	19.87	18.57	20.18	20.50
	3H	19.13	20.64	19.51	20.96	21.32	20.32	21.83	20.70	22.16	22.52
	4H	19.75	21.17	20.15	21.52	21.89	21.21	22.63	21.61	22.98	23.36
	6H	20.16	21.48	20.57	21.84	22.24	21.99	23.31	22.40	23.68	24.07
	8H	20.27	21.53	20.69	21.92	22.32	22.31	23.58	22.74	23.96	24.36
	12H	20.32	21.53	20.75	21.91	22.34	22.52	23.73	22.95	24.12	24.54
4H	2H	18.15	19.57	18.55	19.92	20.29	18.79	20.22	19.19	20.56	20.94
	3H	20.12	21.32	20.53	21.72	22.12	21.15	22.35	21.56	22.74	23.14
	4H	20.86	21.95	21.29	22.36	22.80	22.20	23.29	22.63	23.70	24.13
	6H	21.39	22.34	21.84	22.78	23.24	23.15	24.11	23.61	24.55	25.00
	8H	21.54	22.43	22.00	22.87	23.33	23.55	24.44	24.01	24.88	25.35
	12H	21.62	22.42	22.10	22.90	23.37	23.83	24.63	24.31	25.11	25.57
8H	4H	21.32	22.21	21.78	22.65	23.12	22.49	23.38	22.95	23.82	24.29
	6H	21.98	22.73	22.47	23.21	23.69	23.60	24.35	24.09	24.83	25.31
	8H	22.19	22.86	22.70	23.37	23.85	24.11	24.78	24.62	25.29	25.77
	12H	22.33	22.92	22.84	23.41	23.97	24.50	25.09	25.00	25.58	26.14
12H	4H	21.41	22.21	21.89	22.69	23.16	22.51	23.32	22.99	23.79	24.26
	6H	22.11	22.78	22.62	23.29	23.77	23.65	24.32	24.16	24.82	25.31
	8H	22.39	22.98	22.90	23.47	24.03	24.23	24.82	24.73	25.31	25.87