

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: P1586747

Luminaire Tested: 22CZSP-A-54HE-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586747
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-L940
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 5000 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

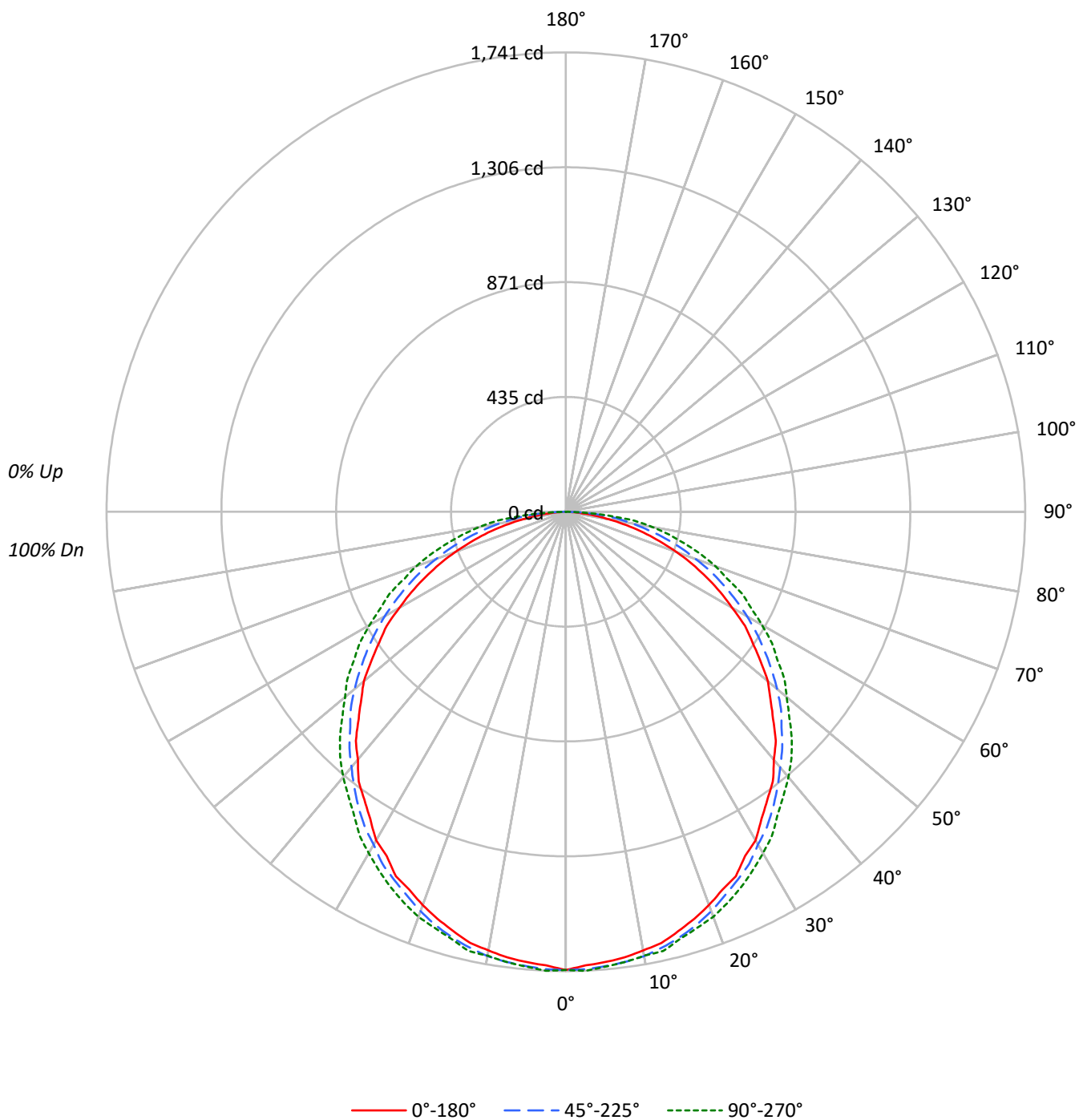
Lumens per Lamp: N/A
Luminaire Lumens: 5115.0 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1586747

CATALOG NUMBER: 22CZSP-A-54HE-L940

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61
5	75	62	53	46	73	61	52	46	58	51	45		56	50	44		55
6	69	56	46	40	67	55	46	40	53	45	39		51	44	39		49
7	64	50	41	35	62	49	41	35	48	40	35		46	40	34		45
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		41
9	56	42	34	28	54	41	34	28	40	33	28		39	33	28		38
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5438	5438	5438
5°	5385	5434	5439
10°	5368	5437	5432
15°	5335	5412	5432
20°	5286	5370	5443
25°	5265	5319	5427
30°	5199	5266	5402
35°	5089	5233	5352
40°	5014	5167	5365
45°	4919	5120	5362
50°	4870	5091	5320
55°	4715	5022	5347
60°	4556	4968	5379
65°	4359	4892	5471
70°	4096	4798	5529
75°	3691	4714	5640
80°	3019	4627	6008
85°	1969	4610	5619

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6305 cd/sqm

TEST NUMBER: P1586747

CATALOG NUMBER: 22CZSP-A-54HE-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.1	3.2
10°-20°	470.0	9.2
20°-30°	710.4	13.9
30°-40°	856.8	16.8
40°-50°	895.7	17.5
50°-60°	826.0	16.1
60°-70°	654.5	12.8
70°-80°	409.2	8.0
80°-90°	128.4	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°	1344.6	26.3
0°-40°	2201.3	43.0
0°-60°	3923.0	76.7
0°-90°	5115.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5115.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1737	1737	1737	1737	1737	
5°	1713	1721	1729	1735	1730	163
15°	1646	1654	1669	1680	1676	464
25°	1524	1519	1540	1561	1571	699
35°	1331	1347	1369	1392	1400	835
45°	1111	1126	1156	1186	1211	860
55°	864	884	920	970	979	774
65°	588	613	660	712	738	583
75°	305	330	390	444	466	321
85°	55	78	128	150	156	72
90°	0	0	0	0	0	

TEST NUMBER: P1586747

CATALOG NUMBER: 22CZSP-A-54HE-L940

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1736.6	1736.6	1736.6	1736.6	1736.6
2.5°	1720.9	1728.8	1735.0	1733.5	1741.3
5°	1713.1	1720.9	1728.8	1735.0	1730.3
7.5°	1703.7	1711.6	1720.9	1730.3	1720.9
10°	1688.1	1692.8	1710.0	1711.6	1708.4
12.5°	1674.0	1678.7	1691.2	1702.2	1705.3
15°	1645.8	1653.7	1669.3	1680.3	1675.6
17.5°	1617.7	1628.6	1642.7	1653.7	1653.7
20°	1586.4	1594.2	1611.4	1619.3	1633.3
22.5°	1550.4	1559.8	1573.9	1595.8	1603.6
25°	1523.8	1519.1	1539.5	1561.4	1570.8
27.5°	1470.6	1476.9	1505.0	1525.4	1533.2
30°	1437.8	1440.9	1456.5	1484.7	1494.1
32.5°	1379.9	1389.3	1417.4	1437.8	1455.0
35°	1331.4	1347.0	1368.9	1392.4	1400.2
37.5°	1289.1	1292.3	1317.3	1348.6	1354.9
40°	1226.6	1245.3	1264.1	1303.2	1312.6
42.5°	1178.1	1187.5	1214.0	1251.6	1265.7
45°	1110.8	1126.4	1156.2	1185.9	1210.9
47.5°	1051.3	1067.0	1106.1	1143.6	1148.3
50°	999.7	1006.0	1045.1	1087.3	1092.0
52.5°	929.3	945.0	982.5	1029.4	1045.1
55°	863.6	883.9	919.9	970.0	979.4
57.5°	805.7	815.1	857.3	907.4	926.2
60°	727.5	754.1	793.2	841.7	858.9
62.5°	660.2	685.2	727.5	772.9	791.6
65°	588.3	613.3	660.2	711.8	738.4
67.5°	519.4	539.8	596.1	649.3	661.8
70°	447.4	470.9	524.1	578.9	603.9
72.5°	372.3	398.9	458.4	510.0	536.6
75°	305.1	330.1	389.6	444.3	466.2
77.5°	234.7	262.8	320.7	375.5	400.5
80°	167.4	195.6	256.6	311.3	333.2
82.5°	108.0	137.7	195.6	244.1	262.8
85°	54.8	78.2	128.3	150.2	156.4
87.5°	17.2	28.2	43.8	50.1	50.1
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1586747

CATALOG NUMBER: 22CZSP-A-54HE-L940

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	17.41	19.08	17.77	19.39	19.70	18.20	19.86	18.56	20.18	20.49
	3H	19.19	20.70	19.57	21.03	21.39	20.34	21.85	20.72	22.18	22.54
	4H	19.83	21.25	20.22	21.60	21.98	21.27	22.69	21.66	23.04	23.41
	6H	20.25	21.58	20.66	21.94	22.33	22.09	23.42	22.50	23.78	24.17
	8H	20.37	21.63	20.79	22.02	22.42	22.44	23.70	22.86	24.09	24.49
	12H	20.42	21.64	20.85	22.02	22.45	22.68	23.90	23.11	24.28	24.71
4H	2H	18.18	19.61	18.58	19.96	20.33	18.79	20.22	19.19	20.57	20.94
	3H	20.19	21.39	20.60	21.79	22.19	21.18	22.38	21.59	22.78	23.18
	4H	20.95	22.04	21.38	22.46	22.89	22.27	23.36	22.70	23.77	24.21
	6H	21.50	22.46	21.95	22.90	23.35	23.27	24.22	23.72	24.66	25.12
	8H	21.65	22.55	22.11	22.99	23.46	23.69	24.59	24.15	25.03	25.49
	12H	21.74	22.55	22.22	23.03	23.49	24.01	24.81	24.48	25.29	25.76
8H	4H	21.43	22.33	21.89	22.77	23.23	22.57	23.47	23.03	23.91	24.38
	6H	22.12	22.87	22.61	23.36	23.83	23.74	24.49	24.23	24.98	25.45
	8H	22.35	23.02	22.86	23.53	24.01	24.28	24.96	24.79	25.46	25.95
	12H	22.50	23.09	23.00	23.58	24.14	24.71	25.31	25.22	25.80	26.36
12H	4H	21.53	22.34	22.01	22.81	23.28	22.60	23.41	23.08	23.89	24.35
	6H	22.27	22.95	22.78	23.45	23.93	23.80	24.47	24.30	24.98	25.46
	8H	22.57	23.17	23.08	23.66	24.22	24.41	25.01	24.92	25.50	26.06