

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: P1587766

Luminaire Tested: 22CZSP-SB-52-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-52-L940-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 5000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

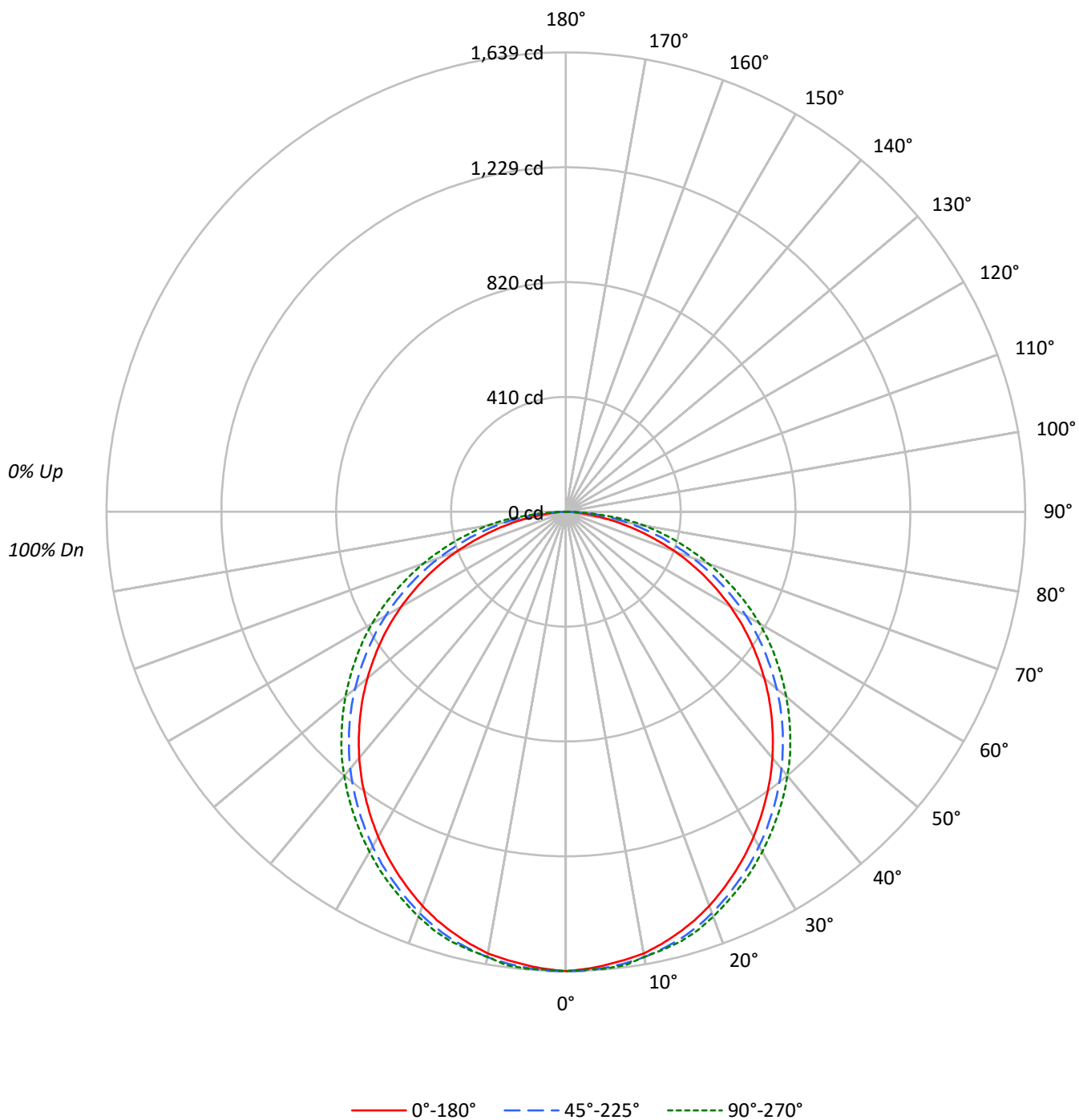
Lumens per Lamp: N/A
Luminaire Lumens: 4768.0 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37.2
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	94	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	66	61		69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53		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	45	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5133	5133	5133
5°	5104	5133	5142
10°	5088	5130	5127
15°	5041	5114	5144
20°	4987	5079	5123
25°	4915	5029	5092
30°	4844	4984	5066
35°	4764	4937	5042
40°	4687	4893	5027
45°	4601	4842	5015
50°	4502	4782	5002
55°	4390	4721	4995
60°	4252	4651	4998
65°	4058	4552	4970
70°	3794	4414	4959
75°	3363	4244	4976
80°	2737	4032	5123
85°	1768	3722	4423

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5191 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.1	3.3
10°-20°	444.2	9.3
20°-30°	669.7	14.0
30°-40°	805.8	16.9
40°-50°	840.6	17.6
50°-60°	770.5	16.2
60°-70°	605.0	12.7
70°-80°	368.2	7.7
80°-90°	108.9	2.3
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°	1269.0	26.6
0°-40°	2074.8	43.5
0°-60°	3685.8	77.3
0°-90°	4768.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4768.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1639	1639	1639	1639	1639	
5°	1624	1634	1633	1631	1636	154
15°	1555	1570	1578	1580	1587	439
25°	1423	1442	1456	1465	1474	656
35°	1246	1266	1291	1310	1319	780
45°	1039	1061	1093	1119	1132	801
55°	804	825	865	900	915	719
65°	548	568	614	655	671	542
75°	278	304	351	393	411	295
85°	49	70	104	116	123	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1639.1	1639.1	1639.1	1639.1	1639.1
2.5°	1632.9	1641.1	1639.1	1631.9	1635.0
5°	1623.7	1633.9	1632.9	1630.9	1636.0
7.5°	1612.4	1623.7	1624.7	1624.7	1630.9
10°	1600.1	1611.4	1613.4	1610.4	1612.4
12.5°	1579.6	1592.9	1597.0	1597.0	1600.1
15°	1555.0	1570.4	1577.5	1579.6	1586.8
17.5°	1528.3	1544.7	1553.9	1559.1	1565.2
20°	1496.5	1513.9	1524.2	1530.3	1537.5
22.5°	1460.6	1480.1	1491.4	1497.5	1505.7
25°	1422.6	1442.1	1455.5	1464.7	1473.9
27.5°	1382.6	1401.1	1419.6	1430.9	1439.1
30°	1339.6	1359.1	1378.5	1392.9	1401.1
32.5°	1293.4	1313.9	1336.5	1351.9	1361.1
35°	1246.2	1265.7	1291.4	1309.8	1319.1
37.5°	1198.0	1218.5	1245.2	1264.7	1276.0
40°	1146.7	1168.3	1197.0	1218.5	1229.8
42.5°	1093.4	1113.9	1145.7	1170.3	1183.7
45°	1039.0	1060.6	1093.4	1119.0	1132.4
47.5°	982.6	1003.1	1039.0	1068.8	1080.1
50°	924.2	943.6	981.6	1013.4	1026.7
52.5°	864.7	885.2	923.1	957.0	971.3
55°	804.2	824.7	864.7	899.5	914.9
57.5°	742.6	763.1	804.2	840.1	858.5
60°	679.0	699.5	742.6	779.5	798.0
62.5°	613.4	634.9	679.0	717.0	736.5
65°	547.7	568.2	614.4	655.4	670.8
67.5°	482.1	502.6	547.7	588.8	607.2
70°	414.4	438.0	482.1	525.2	541.6
72.5°	343.6	370.3	414.4	459.5	475.9
75°	278.0	303.6	350.8	392.8	411.3
77.5°	213.3	241.0	285.1	328.2	346.7
80°	151.8	178.5	223.6	264.6	284.1
82.5°	96.4	120.0	165.1	202.1	216.4
85°	49.2	69.7	103.6	115.9	123.1
87.5°	14.4	24.6	36.9	46.2	51.3
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	17.18	18.84	17.55	19.16	19.47	17.92	19.58	18.28	19.89	20.21
	3H	18.95	20.46	19.33	20.78	21.14	20.00	21.50	20.37	21.83	22.19
	4H	19.57	20.99	19.97	21.34	21.71	20.86	22.28	21.26	22.63	23.00
	6H	19.98	21.30	20.39	21.66	22.05	21.61	22.92	22.02	23.29	23.68
	8H	20.08	21.34	20.51	21.73	22.13	21.90	23.16	22.33	23.55	23.95
	12H	20.13	21.34	20.56	21.72	22.15	22.10	23.30	22.52	23.68	24.11
4H	2H	17.95	19.37	18.35	19.72	20.09	18.52	19.94	18.92	20.29	20.66
	3H	19.94	21.14	20.35	21.53	21.93	20.84	22.03	21.24	22.43	22.83
	4H	20.68	21.77	21.11	22.18	22.62	21.85	22.94	22.28	23.35	23.78
	6H	21.21	22.16	21.67	22.60	23.06	22.76	23.71	23.21	24.15	24.60
	8H	21.35	22.24	21.81	22.69	23.15	23.13	24.02	23.58	24.46	24.92
	12H	21.44	22.24	21.91	22.71	23.18	23.38	24.18	23.86	24.65	25.12
8H	4H	21.13	22.02	21.59	22.46	22.92	22.15	23.04	22.61	23.48	23.95
	6H	21.79	22.54	22.29	23.02	23.50	23.21	23.95	23.70	24.44	24.91
	8H	22.00	22.67	22.51	23.17	23.66	23.68	24.35	24.19	24.85	25.34
	12H	22.14	22.73	22.64	23.22	23.78	24.03	24.62	24.54	25.11	25.67
12H	4H	21.21	22.01	21.69	22.49	22.95	22.18	22.98	22.66	23.45	23.92
	6H	21.92	22.58	22.42	23.09	23.57	23.26	23.93	23.77	24.43	24.92
	8H	22.19	22.78	22.70	23.27	23.83	23.80	24.39	24.30	24.88	25.43