

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: P1587757

Luminaire Tested: 22CZSP-SB-52-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-52-L840
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 5000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

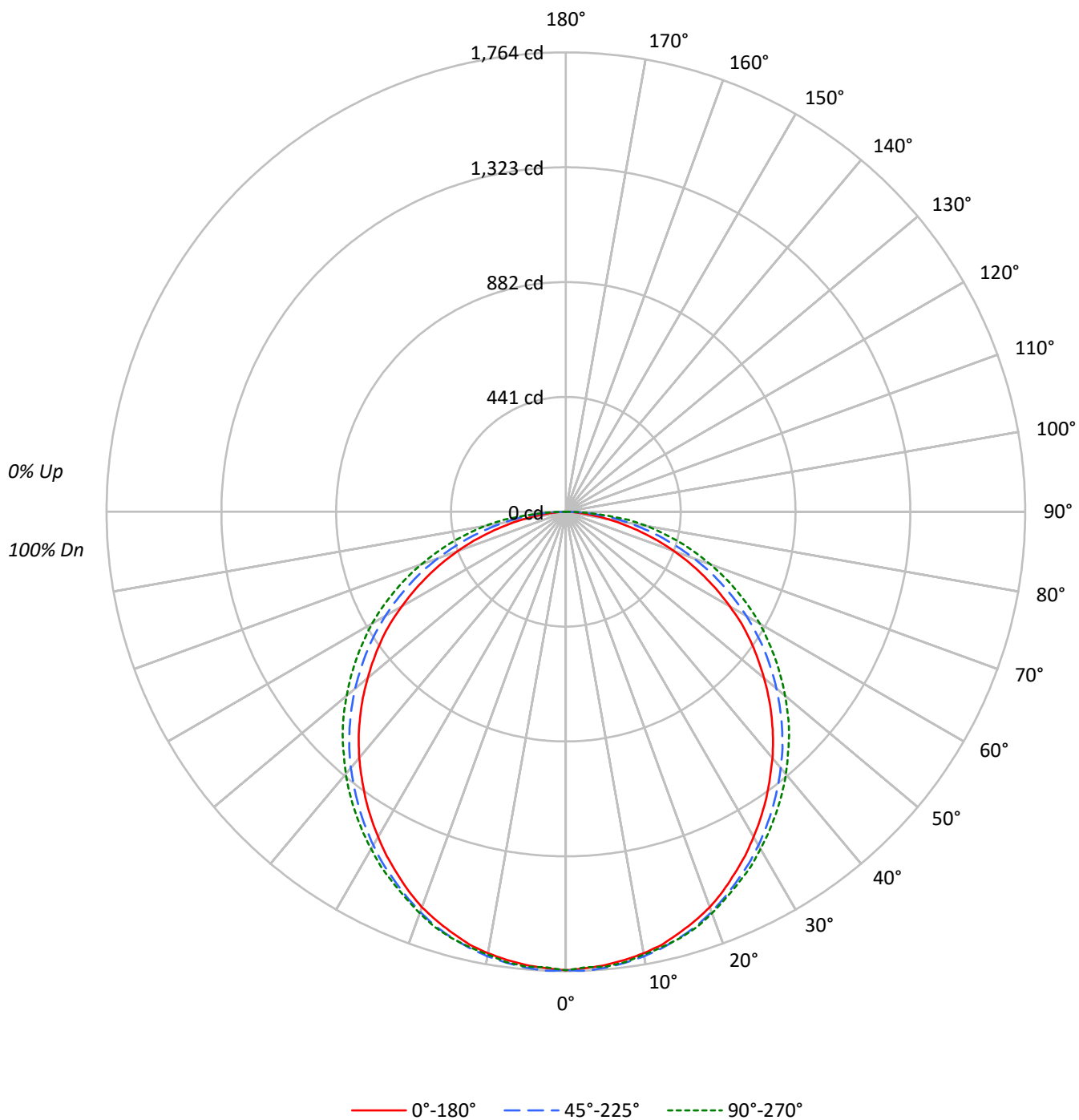
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5138.0 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 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	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	68
3	89	79	70	63	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°	5513	5513	5513
5°	5493	5524	5510
10°	5473	5512	5491
15°	5433	5489	5496
20°	5385	5450	5468
25°	5298	5392	5429
30°	5214	5347	5406
35°	5130	5296	5387
40°	5045	5250	5374
45°	4950	5201	5369
50°	4842	5144	5356
55°	4732	5088	5355
60°	4556	5013	5387
65°	4343	4915	5390
70°	4052	4779	5406
75°	3605	4605	5500
80°	2961	4413	5706
85°	1954	4142	5156

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5844 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.5	3.2
10°-20°	476.7	9.3
20°-30°	718.5	14.0
30°-40°	865.3	16.8
40°-50°	904.0	17.6
50°-60°	830.5	16.2
60°-70°	654.0	12.7
70°-80°	401.0	7.8
80°-90°	121.6	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°	1361.7	26.5
0°-40°	2227.0	43.3
0°-60°	3961.4	77.1
0°-90°	5138.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5138.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1761	1761	1761	1761	1761	
5°	1748	1751	1757	1755	1753	166
15°	1676	1682	1693	1700	1695	473
25°	1533	1543	1560	1577	1571	707
35°	1342	1359	1385	1410	1409	839
45°	1118	1142	1174	1207	1212	862
55°	867	892	932	972	981	773
65°	586	617	663	708	728	579
75°	298	333	381	426	455	317
85°	54	80	115	128	144	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1760.6	1760.6	1760.6	1760.6	1760.6
2.5°	1754.1	1758.4	1763.8	1755.1	1750.8
5°	1747.5	1750.8	1757.3	1755.1	1753.0
7.5°	1735.6	1737.8	1746.5	1746.5	1744.3
10°	1721.4	1725.8	1733.4	1732.3	1726.9
12.5°	1703.0	1706.2	1714.9	1714.9	1711.7
15°	1675.8	1682.3	1693.2	1699.7	1695.3
17.5°	1647.5	1654.0	1668.2	1674.7	1672.5
20°	1616.0	1621.4	1635.5	1645.3	1641.0
22.5°	1576.8	1583.3	1599.6	1610.5	1606.2
25°	1533.3	1543.1	1560.5	1576.8	1571.4
27.5°	1489.8	1500.7	1522.4	1538.7	1536.6
30°	1442.0	1456.1	1478.9	1499.6	1495.2
32.5°	1393.0	1409.3	1433.3	1455.0	1453.9
35°	1341.9	1359.3	1385.4	1410.4	1409.3
37.5°	1287.5	1308.2	1335.4	1362.6	1363.7
40°	1234.3	1253.8	1284.3	1313.6	1314.7
42.5°	1177.7	1198.4	1231.0	1261.4	1262.5
45°	1117.9	1141.8	1174.4	1207.1	1212.5
47.5°	1057.0	1082.0	1115.7	1150.5	1157.1
50°	993.9	1020.0	1055.9	1092.9	1099.4
52.5°	929.8	957.0	993.9	1030.9	1040.7
55°	866.7	891.7	931.9	972.2	980.9
57.5°	800.4	823.2	866.7	909.1	920.0
60°	727.5	755.8	800.4	842.8	860.2
62.5°	656.8	687.3	732.9	775.4	794.9
65°	586.1	616.6	663.3	707.9	727.5
67.5°	514.4	545.9	595.9	638.3	660.1
70°	442.6	474.1	522.0	567.7	590.5
72.5°	370.8	404.5	451.3	498.1	520.9
75°	298.0	332.8	380.6	426.3	454.6
77.5°	229.5	263.2	311.0	357.8	381.7
80°	164.2	197.9	244.7	291.4	316.4
82.5°	104.4	135.9	181.6	220.8	243.6
85°	54.4	80.5	115.3	128.3	143.5
87.5°	16.3	31.5	44.6	50.0	62.0
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	17.44	19.11	17.81	19.42	19.74	18.19	19.85	18.56	20.17	20.48
	3H	19.21	20.71	19.58	21.04	21.40	20.29	21.79	20.66	22.12	22.48
	4H	19.83	21.25	20.23	21.60	21.98	21.17	22.59	21.57	22.94	23.32
	6H	20.24	21.57	20.65	21.93	22.32	21.94	23.26	22.35	23.62	24.01
	8H	20.35	21.61	20.77	22.00	22.40	22.25	23.51	22.67	23.90	24.30
	12H	20.40	21.61	20.83	21.99	22.42	22.46	23.67	22.89	24.05	24.48
4H	2H	18.21	19.64	18.61	19.98	20.36	18.79	20.22	19.19	20.56	20.94
	3H	20.21	21.41	20.62	21.80	22.20	21.12	22.32	21.53	22.72	23.12
	4H	20.96	22.05	21.39	22.46	22.90	22.16	23.24	22.59	23.66	24.09
	6H	21.50	22.45	21.95	22.89	23.34	23.09	24.04	23.54	24.48	24.93
	8H	21.65	22.54	22.10	22.98	23.44	23.47	24.36	23.93	24.81	25.27
	12H	21.73	22.54	22.21	23.01	23.48	23.75	24.55	24.23	25.03	25.49
8H	4H	21.41	22.31	21.87	22.75	23.21	22.46	23.35	22.92	23.79	24.26
	6H	22.09	22.84	22.58	23.32	23.80	23.54	24.29	24.03	24.77	25.25
	8H	22.31	22.98	22.82	23.49	23.97	24.03	24.70	24.54	25.20	25.69
	12H	22.46	23.05	22.97	23.54	24.10	24.40	25.00	24.91	25.49	26.04
12H	4H	21.50	22.30	21.98	22.78	23.24	22.49	23.29	22.96	23.76	24.23
	6H	22.22	22.89	22.73	23.39	23.88	23.59	24.26	24.10	24.77	25.25
	8H	22.51	23.10	23.02	23.59	24.15	24.15	24.74	24.65	25.23	25.79