

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: P1587759

Luminaire Tested: 22CZSP-SB-52-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587759
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-L845
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 5000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

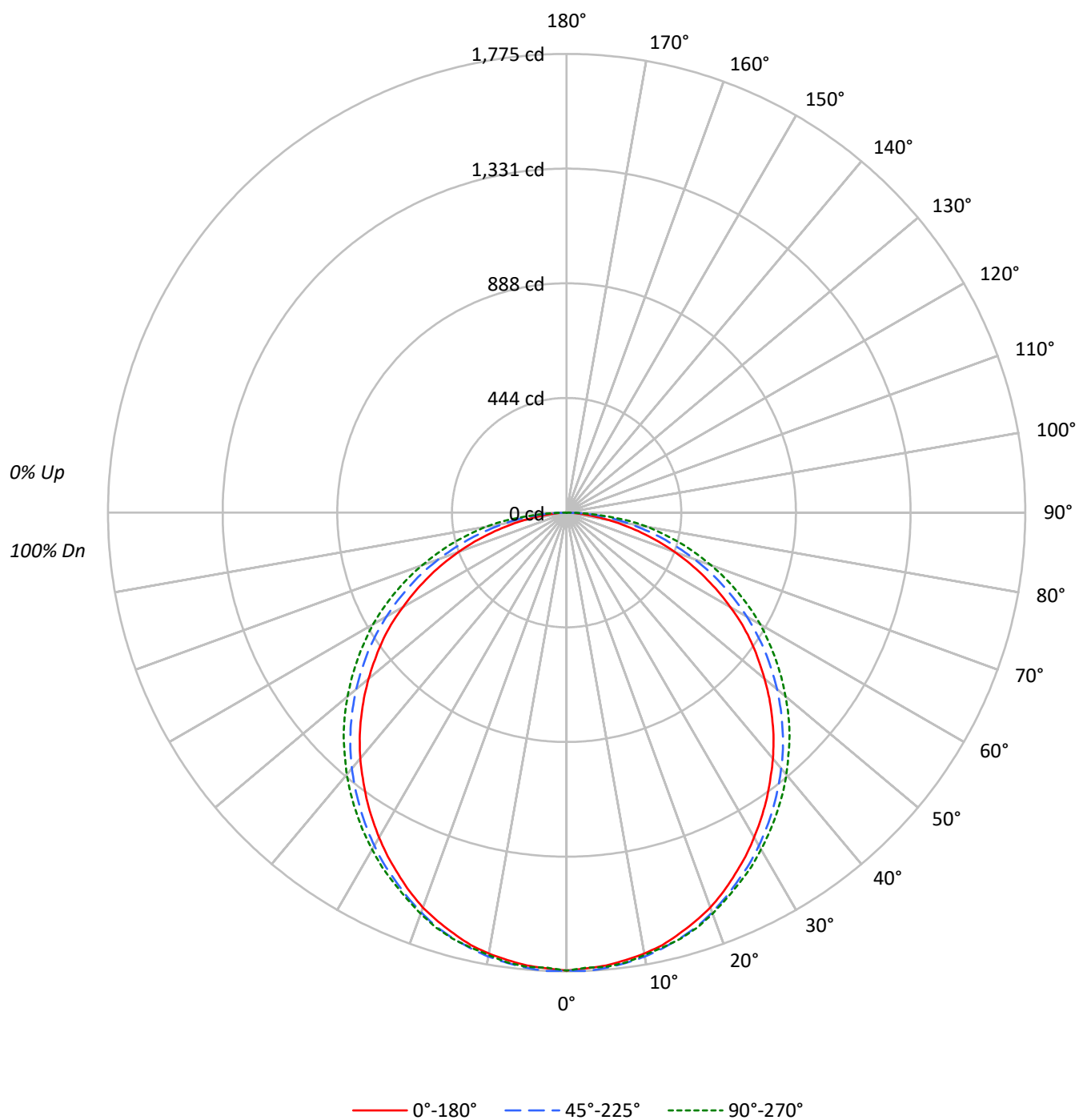
Lumens per Lamp: N/A
Luminaire Lumens: 5171.0 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	5548	5548	5548
5°	5528	5559	5545
10°	5509	5547	5526
15°	5467	5524	5531
20°	5419	5485	5503
25°	5332	5426	5464
30°	5247	5382	5441
35°	5162	5330	5422
40°	5078	5283	5409
45°	4982	5234	5404
50°	4873	5177	5390
55°	4762	5120	5389
60°	4586	5045	5422
65°	4371	4946	5425
70°	4078	4809	5441
75°	3628	4635	5535
80°	2981	4440	5743
85°	1965	4168	5192

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5882 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.6	3.2
10°-20°	479.8	9.3
20°-30°	723.1	14.0
30°-40°	870.8	16.8
40°-50°	909.8	17.6
50°-60°	835.8	16.2
60°-70°	658.2	12.7
70°-80°	403.5	7.8
80°-90°	122.4	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°	1370.5	26.5
0°-40°	2241.3	43.3
0°-60°	3986.9	77.1
0°-90°	5171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5171.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1772	1772	1772	1772	1772	
5°	1759	1762	1769	1766	1764	167
15°	1686	1693	1704	1711	1706	476
25°	1543	1553	1570	1587	1582	711
35°	1350	1368	1394	1420	1418	845
45°	1125	1149	1182	1215	1220	868
55°	872	897	938	978	987	778
65°	590	620	668	712	732	583
75°	300	335	383	429	458	319
85°	55	81	116	129	144	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1771.9	1771.9	1771.9	1771.9	1771.9
2.5°	1765.3	1769.7	1775.2	1766.4	1762.0
5°	1758.8	1762.0	1768.6	1766.4	1764.2
7.5°	1746.7	1748.9	1757.7	1757.7	1755.5
10°	1732.5	1736.9	1744.5	1743.4	1738.0
12.5°	1713.9	1717.2	1725.9	1725.9	1722.6
15°	1686.5	1693.1	1704.0	1710.6	1706.2
17.5°	1658.1	1664.6	1678.9	1685.4	1683.2
20°	1626.3	1631.8	1646.0	1655.9	1651.5
22.5°	1586.9	1593.5	1609.9	1620.9	1616.5
25°	1543.2	1553.0	1570.5	1586.9	1581.5
27.5°	1499.4	1510.3	1532.2	1548.6	1546.4
30°	1451.2	1465.5	1488.4	1509.2	1504.9
32.5°	1402.0	1418.4	1442.5	1464.4	1463.3
35°	1350.5	1368.0	1394.3	1419.5	1418.4
37.5°	1295.8	1316.6	1344.0	1371.3	1372.4
40°	1242.2	1261.9	1292.5	1322.1	1323.2
42.5°	1185.3	1206.1	1238.9	1269.5	1270.6
45°	1125.1	1149.2	1182.0	1214.8	1220.3
47.5°	1063.8	1089.0	1122.9	1157.9	1164.5
50°	1000.3	1026.6	1062.7	1099.9	1106.5
52.5°	935.7	963.1	1000.3	1037.5	1047.4
55°	872.3	897.4	937.9	978.4	987.2
57.5°	805.5	828.5	872.3	914.9	925.9
60°	732.2	760.6	805.5	848.2	865.7
62.5°	661.0	691.7	737.7	780.3	800.0
65°	589.9	620.5	667.6	712.5	732.2
67.5°	517.7	549.4	599.8	642.4	664.3
70°	445.4	477.2	525.3	571.3	594.3
72.5°	373.2	407.1	454.2	501.3	524.2
75°	299.9	334.9	383.1	429.0	457.5
77.5°	230.9	264.9	313.0	360.1	384.1
80°	165.3	199.2	246.2	293.3	318.5
82.5°	105.1	136.8	182.8	222.2	245.2
85°	54.7	81.0	116.0	129.1	144.5
87.5°	16.4	31.7	44.9	50.3	62.4
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	17.47	19.13	17.83	19.44	19.76	18.21	19.88	18.58	20.19	20.50
	3H	19.23	20.74	19.61	21.06	21.42	20.31	21.82	20.68	22.14	22.50
	4H	19.85	21.28	20.25	21.62	22.00	21.19	22.62	21.59	22.96	23.34
	6H	20.27	21.59	20.68	21.95	22.34	21.96	23.28	22.37	23.64	24.03
	8H	20.37	21.64	20.80	22.02	22.42	22.27	23.53	22.70	23.92	24.32
	12H	20.42	21.64	20.85	22.02	22.44	22.48	23.70	22.91	24.08	24.50
4H	2H	18.24	19.66	18.63	20.01	20.38	18.82	20.24	19.21	20.59	20.96
	3H	20.23	21.43	20.64	21.82	22.22	21.14	22.34	21.55	22.74	23.14
	4H	20.98	22.07	21.41	22.48	22.92	22.18	23.27	22.61	23.68	24.11
	6H	21.52	22.47	21.97	22.91	23.37	23.11	24.06	23.56	24.50	24.96
	8H	21.67	22.56	22.13	23.00	23.47	23.49	24.39	23.95	24.83	25.29
	12H	21.75	22.56	22.23	23.03	23.50	23.77	24.57	24.25	25.05	25.52
8H	4H	21.44	22.33	21.90	22.77	23.23	22.48	23.37	22.94	23.81	24.28
	6H	22.11	22.86	22.61	23.35	23.82	23.56	24.31	24.06	24.79	25.27
	8H	22.33	23.00	22.84	23.51	23.99	24.05	24.72	24.56	25.23	25.71
	12H	22.48	23.07	22.99	23.56	24.12	24.43	25.02	24.93	25.51	26.07
12H	4H	21.52	22.32	22.00	22.80	23.27	22.51	23.31	22.99	23.79	24.25
	6H	22.24	22.91	22.75	23.42	23.90	23.62	24.29	24.12	24.79	25.28
	8H	22.53	23.13	23.04	23.61	24.17	24.17	24.76	24.68	25.25	25.81