

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: P1587718

Luminaire Tested: 22CZSP-SB-47-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587718
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-47-L845-S
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 4500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

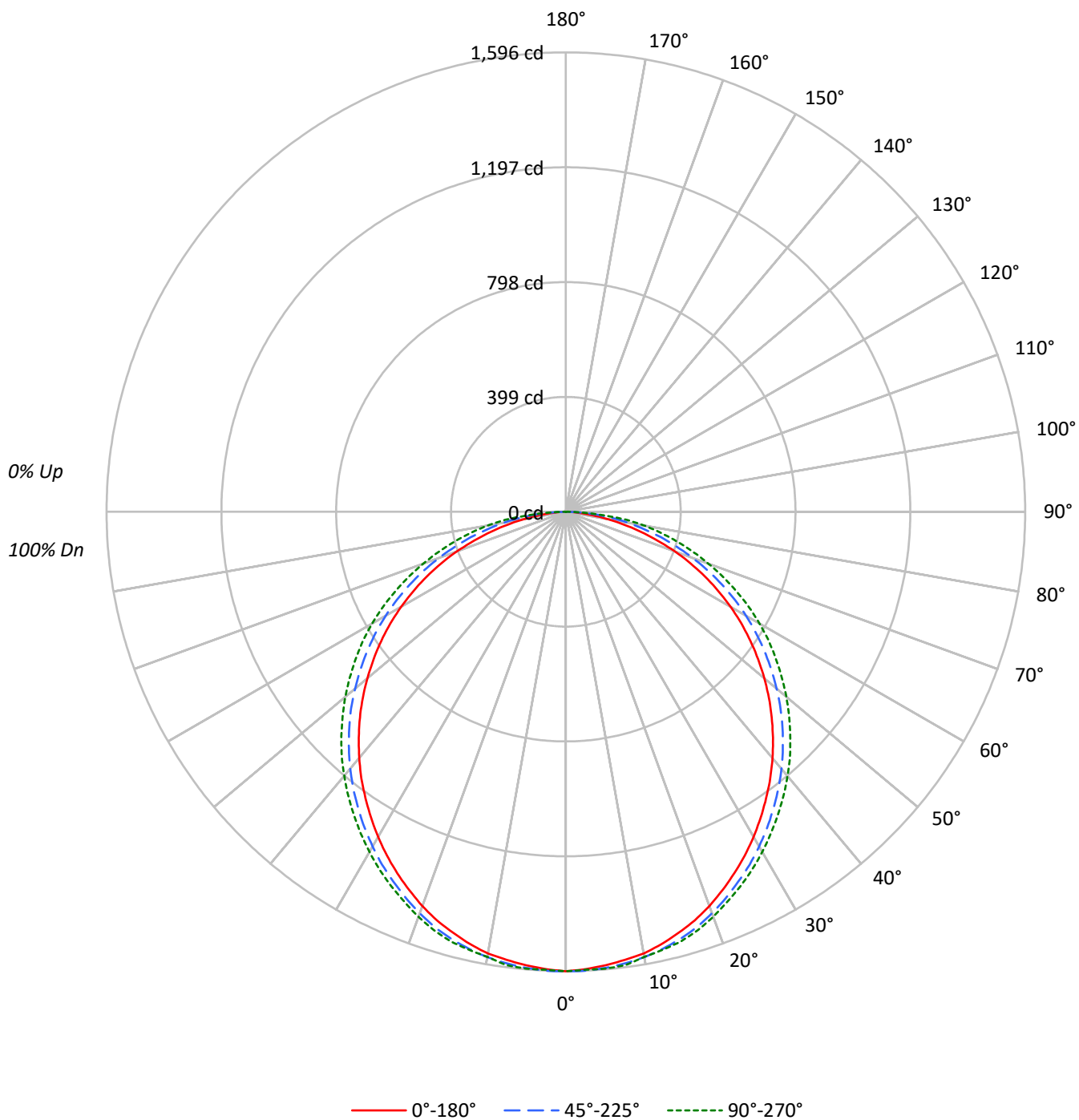
Lumens per Lamp: N/A
Luminaire Lumens: 4644.0 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 33.1
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	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°	4999	4999	4999
5°	4971	4999	5009
10°	4955	4997	4994
15°	4910	4981	5010
20°	4857	4947	4990
25°	4788	4898	4960
30°	4717	4855	4934
35°	4640	4808	4911
40°	4566	4766	4896
45°	4482	4716	4884
50°	4385	4658	4871
55°	4276	4598	4865
60°	4142	4530	4867
65°	3953	4434	4841
70°	3695	4298	4829
75°	3275	4134	4847
80°	2667	3927	4990
85°	1725	3625	4308

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5057 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	3.3
10°-20°	432.6	9.3
20°-30°	652.3	14.0
30°-40°	784.9	16.9
40°-50°	818.7	17.6
50°-60°	750.4	16.2
60°-70°	589.3	12.7
70°-80°	358.6	7.7
80°-90°	106.1	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°	1236.0	26.6
0°-40°	2020.9	43.5
0°-60°	3590.0	77.3
0°-90°	4644.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4644.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1596	1596	1596	1596	1596	
5°	1582	1592	1590	1588	1593	150
15°	1514	1530	1536	1538	1546	427
25°	1386	1405	1418	1427	1436	639
35°	1214	1233	1258	1276	1285	760
45°	1012	1033	1065	1090	1103	780
55°	783	803	842	876	891	700
65°	534	554	598	638	653	528
75°	271	296	342	383	401	287
85°	48	68	101	113	120	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1596.4	1596.4	1596.4	1596.4	1596.4
2.5°	1590.5	1598.4	1596.4	1589.5	1592.5
5°	1581.5	1591.5	1590.5	1588.5	1593.4
7.5°	1570.5	1581.5	1582.5	1582.5	1588.5
10°	1558.5	1569.5	1571.5	1568.5	1570.5
12.5°	1538.5	1551.5	1555.5	1555.5	1558.5
15°	1514.5	1529.5	1536.5	1538.5	1545.5
17.5°	1488.6	1504.5	1513.5	1518.5	1524.5
20°	1457.6	1474.6	1484.6	1490.5	1497.5
22.5°	1422.6	1441.6	1452.6	1458.6	1466.6
25°	1385.7	1404.6	1417.6	1426.6	1435.6
27.5°	1346.7	1364.7	1382.7	1393.6	1401.6
30°	1304.7	1323.7	1342.7	1356.7	1364.7
32.5°	1259.8	1279.8	1301.7	1316.7	1325.7
35°	1213.8	1232.8	1257.8	1275.8	1284.7
37.5°	1166.9	1186.8	1212.8	1231.8	1242.8
40°	1116.9	1137.9	1165.9	1186.8	1197.8
42.5°	1065.0	1084.9	1115.9	1139.9	1152.9
45°	1012.0	1033.0	1065.0	1089.9	1102.9
47.5°	957.1	977.0	1012.0	1041.0	1052.0
50°	900.1	919.1	956.1	987.0	1000.0
52.5°	842.2	862.2	899.1	932.1	946.1
55°	783.2	803.2	842.2	876.1	891.1
57.5°	723.3	743.3	783.2	818.2	836.2
60°	661.4	681.3	723.3	759.3	777.2
62.5°	597.4	618.4	661.4	698.3	717.3
65°	533.5	553.5	598.4	638.4	653.4
67.5°	469.5	489.5	533.5	573.4	591.4
70°	403.6	426.6	469.5	511.5	527.5
72.5°	334.7	360.6	403.6	447.6	463.5
75°	270.7	295.7	341.7	382.6	400.6
77.5°	207.8	234.8	277.7	319.7	337.7
80°	147.9	173.8	217.8	257.7	276.7
82.5°	93.9	116.9	160.8	196.8	210.8
85°	48.0	67.9	100.9	112.9	119.9
87.5°	14.0	24.0	36.0	45.0	50.0
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	17.09	18.75	17.46	19.06	19.38	17.83	19.49	18.19	19.80	20.11
	3H	18.86	20.36	19.24	20.69	21.05	19.90	21.41	20.28	21.74	22.10
	4H	19.48	20.90	19.88	21.25	21.62	20.77	22.19	21.17	22.54	22.91
	6H	19.89	21.21	20.30	21.57	21.96	21.51	22.83	21.92	23.20	23.59
	8H	19.99	21.25	20.41	21.64	22.04	21.81	23.07	22.23	23.46	23.86
	12H	20.04	21.25	20.47	21.63	22.06	22.00	23.21	22.43	23.59	24.02
4H	2H	17.86	19.28	18.26	19.63	20.00	18.43	19.85	18.83	20.20	20.57
	3H	19.85	21.05	20.26	21.44	21.84	20.74	21.94	21.15	22.34	22.73
	4H	20.59	21.68	21.02	22.09	22.52	21.76	22.85	22.19	23.26	23.69
	6H	21.12	22.07	21.57	22.51	22.96	22.67	23.62	23.12	24.06	24.51
	8H	21.26	22.15	21.72	22.59	23.06	23.03	23.92	23.49	24.36	24.83
	12H	21.34	22.14	21.82	22.62	23.09	23.29	24.09	23.77	24.56	25.03
8H	4H	21.04	21.93	21.50	22.37	22.83	22.06	22.95	22.52	23.39	23.85
	6H	21.70	22.44	22.19	22.93	23.40	23.12	23.86	23.61	24.35	24.82
	8H	21.91	22.58	22.42	23.08	23.57	23.59	24.25	24.10	24.76	25.24
	12H	22.05	22.64	22.55	23.13	23.69	23.94	24.53	24.45	25.02	25.58
12H	4H	21.12	21.92	21.60	22.39	22.86	22.09	22.89	22.56	23.36	23.83
	6H	21.82	22.49	22.33	23.00	23.48	23.17	23.84	23.67	24.34	24.82
	8H	22.10	22.69	22.61	23.18	23.74	23.71	24.29	24.21	24.78	25.34