

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: P1587730

Luminaire Tested: 22CZSP-SB-47-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587730
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-L950-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 4500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

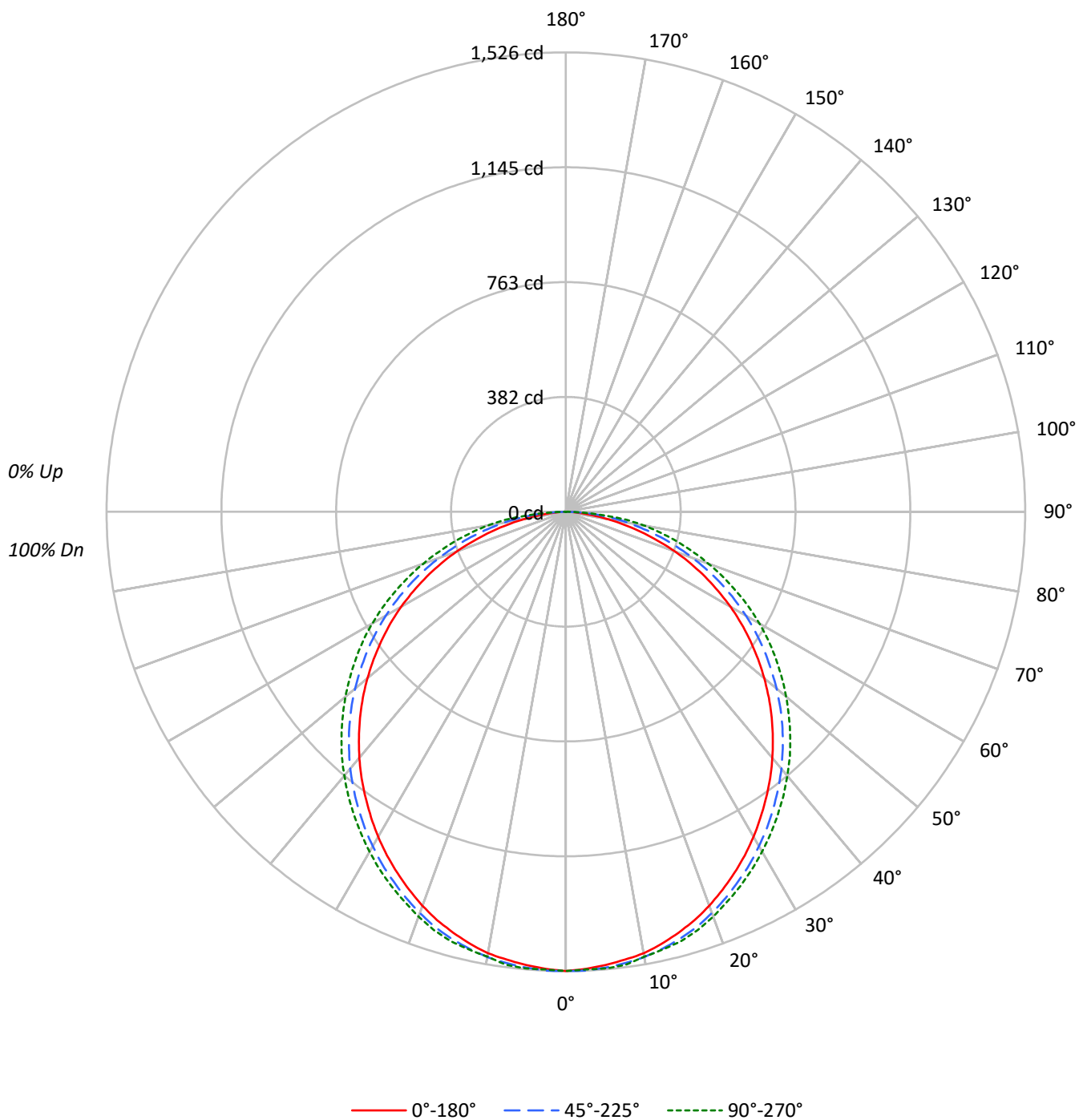
Lumens per Lamp: N/A
Luminaire Lumens: 4438.0 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	4777	4777	4777
5°	4750	4777	4787
10°	4736	4775	4772
15°	4692	4760	4788
20°	4642	4728	4769
25°	4575	4681	4740
30°	4508	4639	4715
35°	4434	4595	4693
40°	4363	4554	4679
45°	4283	4507	4667
50°	4190	4451	4656
55°	4086	4394	4649
60°	3958	4329	4652
65°	3777	4237	4626
70°	3531	4108	4615
75°	3130	3950	4631
80°	2548	3753	4770
85°	1645	3463	4117

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4832 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.4	3.3
10°-20°	413.4	9.3
20°-30°	623.4	14.0
30°-40°	750.1	16.9
40°-50°	782.4	17.6
50°-60°	717.1	16.2
60°-70°	563.1	12.7
70°-80°	342.7	7.7
80°-90°	101.4	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°	1181.2	26.6
0°-40°	1931.2	43.5
0°-60°	3430.7	77.3
0°-90°	4438.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4438.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1526	1526	1526	1526	1526	
5°	1511	1521	1520	1518	1523	144
15°	1447	1462	1468	1470	1477	408
25°	1324	1342	1355	1363	1372	610
35°	1160	1178	1202	1219	1228	726
45°	967	987	1018	1042	1054	746
55°	748	768	805	837	852	669
65°	510	529	572	610	624	504
75°	259	283	326	366	383	274
85°	46	65	96	108	115	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1525.6	1525.6	1525.6	1525.6	1525.6
2.5°	1519.9	1527.5	1525.6	1518.9	1521.8
5°	1511.3	1520.9	1519.9	1518.0	1522.8
7.5°	1500.8	1511.3	1512.3	1512.3	1518.0
10°	1489.4	1499.9	1501.8	1498.9	1500.8
12.5°	1470.3	1482.7	1486.5	1486.5	1489.4
15°	1447.3	1461.7	1468.3	1470.3	1476.9
17.5°	1422.5	1437.8	1446.4	1451.2	1456.9
20°	1392.9	1409.2	1418.7	1424.4	1431.1
22.5°	1359.5	1377.7	1388.2	1393.9	1401.5
25°	1324.2	1342.3	1354.7	1363.3	1371.9
27.5°	1287.0	1304.1	1321.3	1331.8	1339.5
30°	1246.9	1265.0	1283.1	1296.5	1304.1
32.5°	1203.9	1223.0	1244.0	1258.3	1266.9
35°	1160.0	1178.1	1202.0	1219.2	1227.8
37.5°	1115.1	1134.2	1159.0	1177.2	1187.7
40°	1067.4	1087.4	1114.1	1134.2	1144.7
42.5°	1017.7	1036.8	1066.4	1089.3	1101.7
45°	967.1	987.2	1017.7	1041.6	1054.0
47.5°	914.6	933.7	967.1	994.8	1005.3
50°	860.2	878.3	913.7	943.3	955.7
52.5°	804.8	823.9	859.2	890.7	904.1
55°	748.5	767.6	804.8	837.3	851.6
57.5°	691.2	710.3	748.5	781.9	799.1
60°	632.0	651.1	691.2	725.6	742.8
62.5°	570.9	591.0	632.0	667.3	685.5
65°	509.8	528.9	571.9	610.1	624.4
67.5°	448.7	467.8	509.8	548.0	565.2
70°	385.7	407.7	448.7	488.8	504.1
72.5°	319.8	344.7	385.7	427.7	443.0
75°	258.7	282.6	326.5	365.7	382.8
77.5°	198.6	224.4	265.4	305.5	322.7
80°	141.3	166.1	208.1	246.3	264.5
82.5°	89.7	111.7	153.7	188.1	201.4
85°	45.8	64.9	96.4	107.9	114.6
87.5°	13.4	22.9	34.4	43.0	47.7
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	16.93	18.59	17.30	18.91	19.22	17.67	19.33	18.03	19.64	19.96
	3H	18.70	20.21	19.08	20.53	20.89	19.75	21.25	20.12	21.58	21.94
	4H	19.32	20.74	19.72	21.09	21.46	20.61	22.03	21.01	22.38	22.75
	6H	19.73	21.05	20.14	21.41	21.80	21.36	22.68	21.77	23.04	23.43
	8H	19.83	21.09	20.26	21.48	21.88	21.65	22.91	22.08	23.30	23.70
	12H	19.88	21.09	20.31	21.47	21.90	21.85	23.05	22.27	23.44	23.86
4H	2H	17.70	19.12	18.10	19.47	19.84	18.27	19.69	18.67	20.04	20.41
	3H	19.69	20.89	20.10	21.28	21.68	20.59	21.78	20.99	22.18	22.58
	4H	20.44	21.52	20.87	21.93	22.37	21.60	22.69	22.03	23.10	23.54
	6H	20.96	21.91	21.42	22.35	22.81	22.51	23.46	22.96	23.90	24.35
	8H	21.11	21.99	21.56	22.44	22.90	22.88	23.77	23.34	24.21	24.67
	12H	21.19	21.99	21.67	22.46	22.93	23.13	23.93	23.61	24.41	24.87
8H	4H	20.88	21.77	21.34	22.21	22.68	21.90	22.79	22.36	23.23	23.70
	6H	21.54	22.29	22.04	22.77	23.25	22.96	23.70	23.45	24.19	24.66
	8H	21.75	22.42	22.26	22.92	23.41	23.43	24.10	23.94	24.60	25.09
	12H	21.89	22.48	22.39	22.97	23.53	23.78	24.37	24.29	24.86	25.42
12H	4H	20.96	21.76	21.44	22.24	22.71	21.93	22.73	22.41	23.20	23.67
	6H	21.67	22.33	22.17	22.84	23.32	23.01	23.68	23.52	24.18	24.67
	8H	21.94	22.53	22.45	23.02	23.58	23.55	24.14	24.05	24.63	25.19