

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: P1587711

Luminaire Tested: 22CZSP-SB-43HE-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587711
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-43HE-L950
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

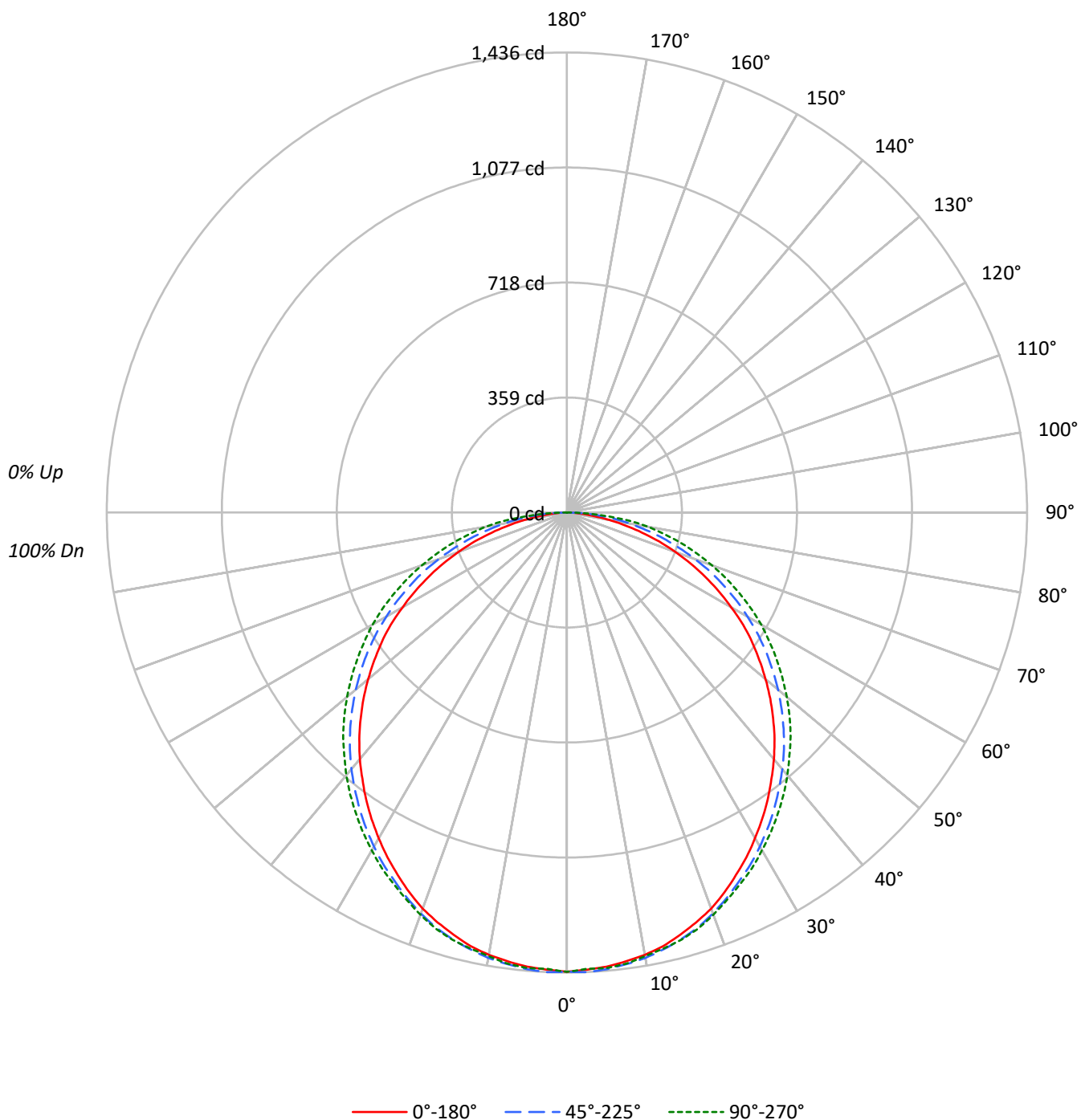
Lumens per Lamp: N/A
Luminaire Lumens: 4184.0 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.2
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°	4489	4489	4489
5°	4473	4498	4487
10°	4457	4488	4471
15°	4424	4470	4476
20°	4385	4438	4453
25°	4314	4390	4421
30°	4246	4354	4403
35°	4177	4313	4387
40°	4109	4275	4376
45°	4031	4235	4373
50°	3943	4189	4361
55°	3853	4143	4361
60°	3710	4082	4387
65°	3536	4003	4389
70°	3300	3892	4402
75°	2935	3749	4479
80°	2411	3592	4647
85°	1592	3374	4200

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4760 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.6	3.2
10°-20°	388.2	9.3
20°-30°	585.1	14.0
30°-40°	704.6	16.8
40°-50°	736.1	17.6
50°-60°	676.3	16.2
60°-70°	532.6	12.7
70°-80°	326.5	7.8
80°-90°	99.0	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°	1108.9	26.5
0°-40°	1813.5	43.3
0°-60°	3225.9	77.1
0°-90°	4184.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4184.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1434	1434	1434	1434	1434	
5°	1423	1426	1431	1429	1428	135
15°	1365	1370	1379	1384	1381	385
25°	1249	1257	1271	1284	1280	576
35°	1093	1107	1128	1148	1148	683
45°	910	930	956	983	987	702
55°	706	726	759	792	799	630
65°	477	502	540	576	592	472
75°	243	271	310	347	370	258
85°	44	66	94	104	117	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1433.7	1433.7	1433.7	1433.7	1433.7
2.5°	1428.4	1431.9	1436.3	1429.3	1425.7
5°	1423.1	1425.7	1431.0	1429.3	1427.5
7.5°	1413.3	1415.1	1422.2	1422.2	1420.4
10°	1401.8	1405.4	1411.6	1410.7	1406.2
12.5°	1386.8	1389.4	1396.5	1396.5	1393.8
15°	1364.6	1369.9	1378.8	1384.1	1380.6
17.5°	1341.6	1346.9	1358.4	1363.7	1362.0
20°	1315.9	1320.3	1331.9	1339.8	1336.3
22.5°	1284.0	1289.3	1302.6	1311.5	1307.9
25°	1248.6	1256.6	1270.7	1284.0	1279.6
27.5°	1213.2	1222.0	1239.8	1253.0	1251.3
30°	1174.2	1185.7	1204.3	1221.2	1217.6
32.5°	1134.4	1147.7	1167.1	1184.9	1184.0
35°	1092.8	1106.9	1128.2	1148.5	1147.7
37.5°	1048.5	1065.3	1087.4	1109.6	1110.5
40°	1005.1	1021.0	1045.8	1069.7	1070.6
42.5°	959.0	975.9	1002.4	1027.2	1028.1
45°	910.3	929.8	956.4	982.9	987.4
47.5°	860.7	881.1	908.6	936.9	942.2
50°	809.4	830.6	859.9	890.0	895.3
52.5°	757.1	779.3	809.4	839.5	847.5
55°	705.8	726.1	758.9	791.7	798.8
57.5°	651.8	670.4	705.8	740.3	749.2
60°	592.4	615.5	651.8	686.3	700.5
62.5°	534.9	559.7	596.9	631.4	647.3
65°	477.3	502.1	540.2	576.5	592.4
67.5°	418.9	444.5	485.3	519.8	537.5
70°	360.4	386.1	425.1	462.3	480.8
72.5°	302.0	329.4	367.5	405.6	424.2
75°	242.6	271.0	309.9	347.1	370.2
77.5°	186.8	214.3	253.3	291.3	310.8
80°	133.7	161.2	199.2	237.3	257.7
82.5°	85.0	110.7	147.9	179.8	198.4
85°	44.3	65.5	93.9	104.5	116.9
87.5°	13.3	25.7	36.3	40.7	50.5
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	16.73	18.39	17.10	18.71	19.02	17.48	19.14	17.84	19.45	19.77
	3H	18.49	20.00	18.87	20.33	20.69	19.57	21.08	19.95	21.41	21.77
	4H	19.12	20.54	19.52	20.89	21.26	20.46	21.88	20.85	22.23	22.60
	6H	19.53	20.85	19.94	21.21	21.61	21.22	22.54	21.63	22.91	23.30
	8H	19.64	20.90	20.06	21.29	21.69	21.54	22.80	21.96	23.19	23.58
	12H	19.69	20.90	20.12	21.28	21.71	21.75	22.96	22.18	23.34	23.77
4H	2H	17.50	18.92	17.90	19.27	19.65	18.08	19.50	18.48	19.85	20.23
	3H	19.49	20.69	19.90	21.09	21.49	20.41	21.61	20.82	22.00	22.40
	4H	20.25	21.34	20.68	21.75	22.18	21.44	22.53	21.87	22.94	23.38
	6H	20.78	21.74	21.24	22.18	22.63	22.37	23.33	22.83	23.77	24.22
	8H	20.93	21.82	21.39	22.27	22.73	22.76	23.65	23.22	24.09	24.56
	12H	21.02	21.82	21.50	22.30	22.76	23.03	23.84	23.51	24.31	24.78
8H	4H	20.70	21.59	21.16	22.03	22.50	21.74	22.64	22.20	23.08	23.54
	6H	21.38	22.12	21.87	22.61	23.08	22.83	23.57	23.32	24.06	24.53
	8H	21.60	22.27	22.11	22.77	23.26	23.32	23.98	23.82	24.49	24.97
	12H	21.75	22.34	22.25	22.83	23.39	23.69	24.28	24.20	24.77	25.33
12H	4H	20.78	21.59	21.26	22.06	22.53	21.77	22.58	22.25	23.05	23.52
	6H	21.51	22.18	22.01	22.68	23.17	22.88	23.55	23.39	24.05	24.54
	8H	21.80	22.39	22.30	22.88	23.44	23.43	24.03	23.94	24.52	25.07