

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: P1587699

Luminaire Tested: 22CZSP-SB-43HE-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587699
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-L845
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 4000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

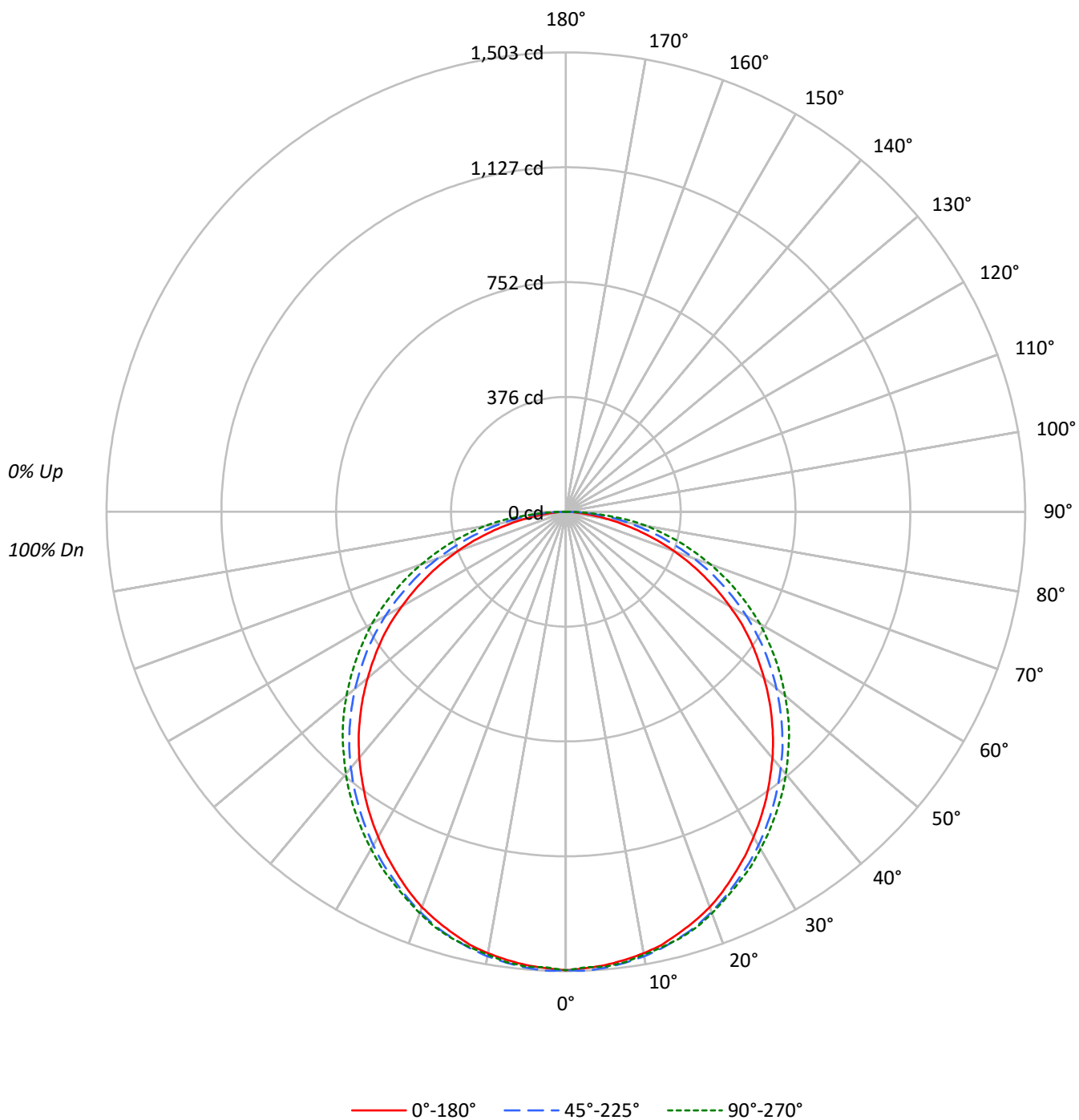
Lumens per Lamp: N/A
Luminaire Lumens: 4378.0 lumens
Efficiency: N/A
Efficacy: 155.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	4698	4698	4698
5°	4680	4707	4695
10°	4664	4696	4679
15°	4629	4677	4683
20°	4588	4644	4659
25°	4514	4594	4626
30°	4443	4557	4607
35°	4371	4513	4591
40°	4299	4473	4579
45°	4218	4431	4575
50°	4126	4383	4564
55°	4032	4335	4563
60°	3882	4271	4590
65°	3700	4188	4593
70°	3452	4072	4606
75°	3072	3924	4686
80°	2523	3760	4862
85°	1663	3528	4394

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4980 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.9	3.2
10°-20°	406.2	9.3
20°-30°	612.2	14.0
30°-40°	737.3	16.8
40°-50°	770.3	17.6
50°-60°	707.6	16.2
60°-70°	557.3	12.7
70°-80°	341.6	7.8
80°-90°	103.6	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°	1160.3	26.5
0°-40°	1897.6	43.3
0°-60°	3375.5	77.1
0°-90°	4378.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4378.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1500	1500	1500	1500	1500	
5°	1489	1492	1497	1496	1494	141
15°	1428	1434	1443	1448	1445	403
25°	1306	1315	1330	1344	1339	602
35°	1143	1158	1180	1202	1201	715
45°	952	973	1001	1028	1033	735
55°	738	760	794	828	836	659
65°	499	525	565	603	620	494
75°	254	284	324	363	387	270
85°	46	69	98	109	122	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1500.2	1500.2	1500.2	1500.2	1500.2
2.5°	1494.6	1498.3	1502.9	1495.5	1491.8
5°	1489.0	1491.8	1497.4	1495.5	1493.7
7.5°	1478.9	1480.7	1488.1	1488.1	1486.3
10°	1466.8	1470.5	1477.0	1476.1	1471.4
12.5°	1451.1	1453.8	1461.2	1461.2	1458.5
15°	1427.9	1433.5	1442.7	1448.3	1444.6
17.5°	1403.8	1409.4	1421.4	1427.0	1425.1
20°	1376.9	1381.6	1393.6	1401.9	1398.2
22.5°	1343.6	1349.1	1363.0	1372.3	1368.6
25°	1306.5	1314.8	1329.7	1343.6	1338.9
27.5°	1269.4	1278.7	1297.2	1311.1	1309.3
30°	1228.7	1240.7	1260.2	1277.8	1274.1
32.5°	1187.0	1200.9	1221.3	1239.8	1238.9
35°	1143.4	1158.2	1180.5	1201.8	1200.9
37.5°	1097.1	1114.7	1137.9	1161.0	1162.0
40°	1051.7	1068.4	1094.3	1119.3	1120.3
42.5°	1003.5	1021.1	1048.9	1074.9	1075.8
45°	952.5	972.9	1000.7	1028.5	1033.2
47.5°	900.7	922.0	950.7	980.3	985.9
50°	846.9	869.2	899.7	931.2	936.8
52.5°	792.2	815.4	846.9	878.4	886.8
55°	738.5	759.8	794.1	828.4	835.8
57.5°	682.0	701.4	738.5	774.6	783.9
60°	619.9	644.0	682.0	718.1	732.9
62.5°	559.7	585.6	624.5	660.7	677.3
65°	499.4	525.4	565.2	603.2	619.9
67.5°	438.3	465.2	507.8	543.9	562.4
70°	377.1	404.0	444.8	483.7	503.1
72.5°	316.0	344.7	384.5	424.4	443.8
75°	253.9	283.5	324.3	363.2	387.3
77.5°	195.5	224.2	265.0	304.9	325.2
80°	139.9	168.6	208.5	248.3	269.6
82.5°	89.0	115.8	154.7	188.1	207.6
85°	46.3	68.6	98.2	109.3	122.3
87.5°	13.9	26.9	38.0	42.6	52.8
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	16.89	18.55	17.25	18.87	19.18	17.63	19.30	18.00	19.61	19.93
	3H	18.65	20.16	19.03	20.48	20.84	19.73	21.24	20.11	21.56	21.92
	4H	19.28	20.70	19.67	21.05	21.42	20.61	22.04	21.01	22.38	22.76
	6H	19.69	21.01	20.10	21.37	21.76	21.38	22.70	21.79	23.07	23.46
	8H	19.79	21.06	20.22	21.45	21.84	21.69	22.96	22.12	23.34	23.74
	12H	19.85	21.06	20.27	21.44	21.87	21.91	23.12	22.33	23.50	23.93
4H	2H	17.66	19.08	18.06	19.43	19.80	18.24	19.66	18.64	20.01	20.38
	3H	19.65	20.85	20.06	21.25	21.65	20.57	21.76	20.98	22.16	22.56
	4H	20.41	21.49	20.84	21.90	22.34	21.60	22.69	22.03	23.10	23.53
	6H	20.94	21.89	21.39	22.33	22.79	22.53	23.48	22.98	23.92	24.38
	8H	21.09	21.98	21.55	22.42	22.89	22.92	23.81	23.37	24.25	24.71
	12H	21.18	21.98	21.65	22.45	22.92	23.19	23.99	23.67	24.47	24.94
8H	4H	20.86	21.75	21.32	22.19	22.66	21.90	22.79	22.36	23.23	23.70
	6H	21.54	22.28	22.03	22.77	23.24	22.98	23.73	23.48	24.22	24.69
	8H	21.76	22.42	22.26	22.93	23.41	23.47	24.14	23.98	24.65	25.13
	12H	21.90	22.50	22.41	22.98	23.54	23.85	24.44	24.35	24.93	25.49
12H	4H	20.94	21.75	21.42	22.22	22.69	21.93	22.73	22.41	23.21	23.68
	6H	21.66	22.33	22.17	22.84	23.32	23.04	23.71	23.54	24.21	24.70
	8H	21.95	22.55	22.46	23.04	23.59	23.59	24.18	24.10	24.67	25.23