

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: P1587694

Luminaire Tested: 22CZSP-SB-43HE-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587694
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-43HE-L835-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

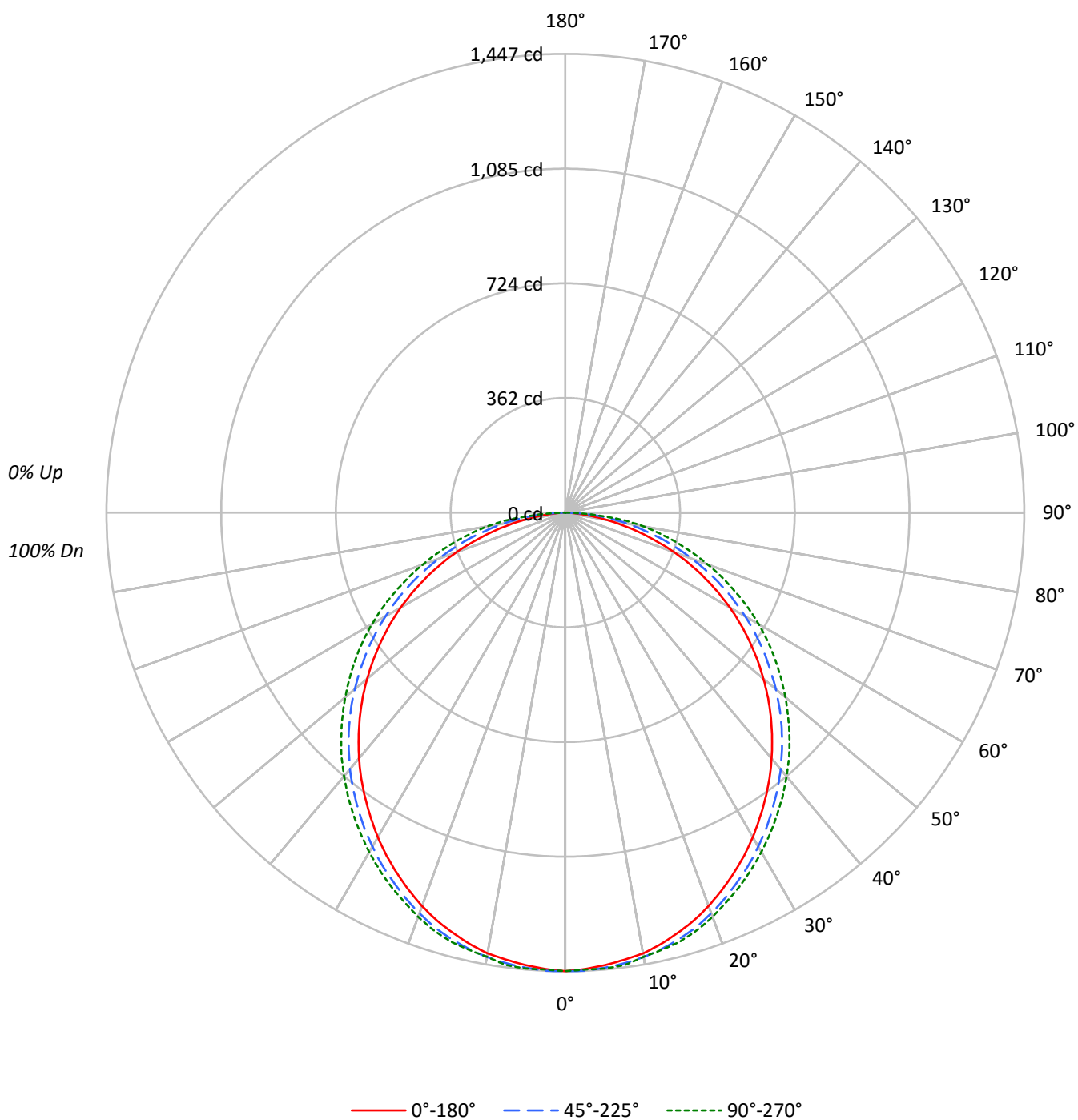
Lumens per Lamp: N/A
Luminaire Lumens: 4208.0 lumens
Efficiency: N/A
Efficacy: 149.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	4530	4530	4530
5°	4504	4530	4538
10°	4490	4527	4525
15°	4449	4514	4540
20°	4401	4483	4522
25°	4338	4438	4494
30°	4275	4399	4471
35°	4205	4357	4450
40°	4137	4318	4437
45°	4061	4273	4426
50°	3973	4220	4414
55°	3874	4166	4408
60°	3753	4105	4411
65°	3582	4017	4386
70°	3348	3896	4376
75°	2968	3746	4392
80°	2416	3558	4521
85°	1563	3284	3902

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4582 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.9	3.3
10°-20°	392.0	9.3
20°-30°	591.1	14.0
30°-40°	711.2	16.9
40°-50°	741.8	17.6
50°-60°	680.0	16.2
60°-70°	534.0	12.7
70°-80°	325.0	7.7
80°-90°	96.1	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°	1120.0	26.6
0°-40°	1831.2	43.5
0°-60°	3253.0	77.3
0°-90°	4208.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4208.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1447	1447	1447	1447	1447	
5°	1433	1442	1441	1439	1444	136
15°	1372	1386	1392	1394	1400	387
25°	1256	1273	1284	1293	1301	579
35°	1100	1117	1140	1156	1164	688
45°	917	936	965	988	999	707
55°	710	728	763	794	808	634
65°	483	502	542	578	592	478
75°	245	268	310	347	363	260
85°	44	62	91	102	109	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1446.6	1446.6	1446.6	1446.6	1446.6
2.5°	1441.1	1448.4	1446.6	1440.2	1442.9
5°	1433.0	1442.0	1441.1	1439.3	1443.8
7.5°	1423.0	1433.0	1433.9	1433.9	1439.3
10°	1412.2	1422.1	1423.9	1421.2	1423.0
12.5°	1394.1	1405.8	1409.5	1409.5	1412.2
15°	1372.3	1385.9	1392.3	1394.1	1400.4
17.5°	1348.8	1363.3	1371.4	1376.0	1381.4
20°	1320.7	1336.1	1345.2	1350.6	1356.9
22.5°	1289.1	1306.3	1316.2	1321.6	1328.9
25°	1255.6	1272.8	1284.5	1292.7	1300.8
27.5°	1220.3	1236.6	1252.8	1262.8	1270.0
30°	1182.2	1199.4	1216.6	1229.3	1236.6
32.5°	1141.5	1159.6	1179.5	1193.1	1201.2
35°	1099.9	1117.1	1139.7	1156.0	1164.1
37.5°	1057.3	1075.4	1099.0	1116.2	1126.1
40°	1012.1	1031.1	1056.4	1075.4	1085.4
42.5°	965.0	983.1	1011.1	1032.9	1044.6
45°	917.0	936.0	965.0	987.6	999.4
47.5°	867.2	885.3	917.0	943.3	953.2
50°	815.6	832.8	866.3	894.4	906.1
52.5°	763.1	781.2	814.7	844.6	857.3
55°	709.7	727.8	763.1	793.9	807.5
57.5°	655.4	673.5	709.7	741.4	757.7
60°	599.3	617.4	655.4	688.0	704.3
62.5°	541.3	560.3	599.3	632.8	650.0
65°	483.4	501.5	542.2	578.4	592.0
67.5°	425.5	443.6	483.4	519.6	535.9
70°	365.7	386.5	425.5	463.5	478.0
72.5°	303.3	326.8	365.7	405.5	420.0
75°	245.3	267.9	309.6	346.7	363.0
77.5°	188.3	212.7	251.7	289.7	306.0
80°	134.0	157.5	197.3	233.6	250.7
82.5°	85.1	105.9	145.7	178.3	191.0
85°	43.5	61.6	91.4	102.3	108.6
87.5°	12.7	21.7	32.6	40.7	45.3
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	16.75	18.41	17.11	18.72	19.04	17.48	19.14	17.85	19.46	19.77
	3H	18.52	20.02	18.89	20.35	20.71	19.56	21.07	19.94	21.39	21.75
	4H	19.14	20.56	19.53	20.90	21.28	20.43	21.85	20.83	22.19	22.57
	6H	19.54	20.86	19.95	21.23	21.62	21.17	22.49	21.58	22.85	23.24
	8H	19.65	20.91	20.07	21.30	21.69	21.47	22.73	21.89	23.12	23.51
	12H	19.70	20.90	20.13	21.29	21.71	21.66	22.87	22.09	23.25	23.68
4H	2H	17.52	18.94	17.91	19.28	19.66	18.09	19.51	18.49	19.85	20.23
	3H	19.51	20.70	19.92	21.10	21.50	20.40	21.60	20.81	21.99	22.39
	4H	20.25	21.33	20.68	21.75	22.18	21.42	22.50	21.85	22.92	23.35
	6H	20.78	21.73	21.23	22.17	22.62	22.32	23.27	22.78	23.71	24.17
	8H	20.92	21.81	21.38	22.25	22.72	22.69	23.58	23.15	24.02	24.49
	12H	21.00	21.80	21.48	22.28	22.74	22.95	23.75	23.42	24.22	24.69
8H	4H	20.70	21.59	21.15	22.03	22.49	21.72	22.61	22.18	23.05	23.51
	6H	21.36	22.10	21.85	22.59	23.06	22.77	23.52	23.27	24.00	24.48
	8H	21.57	22.23	22.08	22.74	23.22	23.25	23.91	23.75	24.42	24.90
	12H	21.70	22.29	22.21	22.78	23.34	23.60	24.19	24.10	24.68	25.24
12H	4H	20.78	21.58	21.26	22.05	22.52	21.74	22.54	22.22	23.02	23.49
	6H	21.48	22.15	21.99	22.65	23.14	22.83	23.49	23.33	24.00	24.48
	8H	21.76	22.35	22.26	22.84	23.40	23.36	23.95	23.87	24.44	25.00