

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: P1587678

Luminaire Tested: 22CZSP-SB-42-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587678
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-42-L845-S
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 4000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

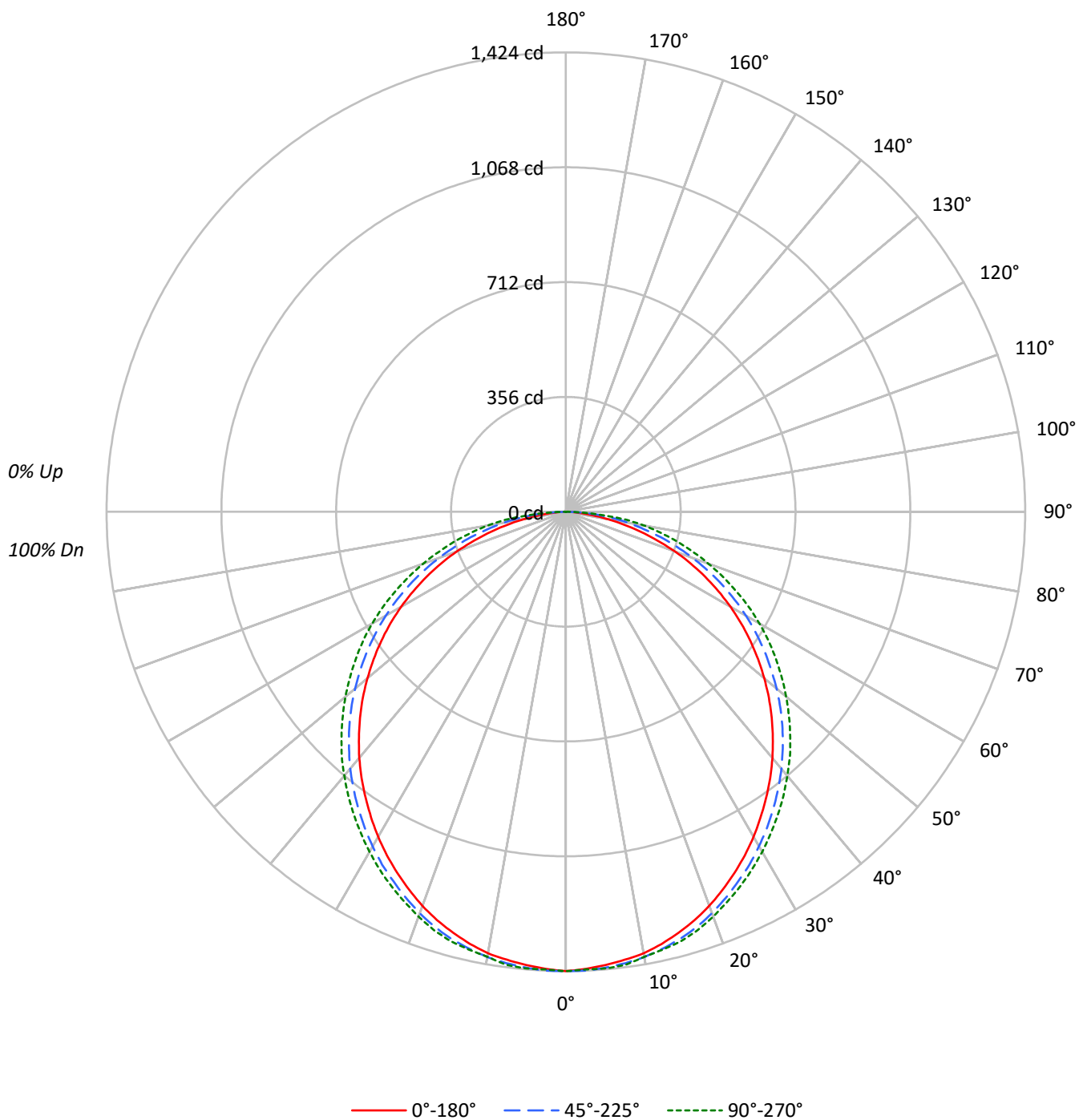
Lumens per Lamp: N/A
Luminaire Lumens: 4142.0 lumens
Efficiency: N/A
Efficacy: 143.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.9
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°	4459	4459	4459
5°	4434	4459	4467
10°	4420	4457	4454
15°	4379	4443	4468
20°	4332	4412	4451
25°	4270	4369	4424
30°	4208	4330	4401
35°	4138	4288	4380
40°	4072	4250	4367
45°	3997	4206	4356
50°	3911	4154	4345
55°	3814	4100	4339
60°	3694	4040	4341
65°	3525	3954	4317
70°	3296	3834	4308
75°	2922	3686	4323
80°	2378	3502	4450
85°	1538	3234	3841

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4510 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.7	3.3
10°-20°	385.9	9.3
20°-30°	581.8	14.0
30°-40°	700.0	16.9
40°-50°	730.2	17.6
50°-60°	669.3	16.2
60°-70°	525.6	12.7
70°-80°	319.9	7.7
80°-90°	94.6	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°	1102.4	26.6
0°-40°	1802.4	43.5
0°-60°	3201.9	77.3
0°-90°	4142.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4142.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1424	1424	1424	1424	1424	
5°	1410	1419	1418	1417	1421	134
15°	1351	1364	1370	1372	1378	381
25°	1236	1253	1264	1272	1280	570
35°	1083	1100	1122	1138	1146	677
45°	903	921	950	972	984	696
55°	699	716	751	781	795	624
65°	476	494	534	569	583	471
75°	242	264	305	341	357	256
85°	43	61	90	101	107	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1423.9	1423.9	1423.9	1423.9	1423.9
2.5°	1418.5	1425.7	1423.9	1417.6	1420.3
5°	1410.5	1419.4	1418.5	1416.7	1421.2
7.5°	1400.7	1410.5	1411.4	1411.4	1416.7
10°	1390.0	1399.8	1401.6	1398.9	1400.7
12.5°	1372.2	1383.8	1387.3	1387.3	1390.0
15°	1350.8	1364.2	1370.4	1372.2	1378.4
17.5°	1327.6	1341.9	1349.9	1354.4	1359.7
20°	1300.0	1315.2	1324.1	1329.4	1335.7
22.5°	1268.8	1285.8	1295.6	1300.9	1308.0
25°	1235.9	1252.8	1264.4	1272.4	1280.4
27.5°	1201.1	1217.2	1233.2	1243.0	1250.1
30°	1163.7	1180.6	1197.6	1210.0	1217.2
32.5°	1123.6	1141.4	1161.0	1174.4	1182.4
35°	1082.6	1099.5	1121.8	1137.9	1145.9
37.5°	1040.7	1058.6	1081.7	1098.6	1108.4
40°	996.2	1014.9	1039.8	1058.6	1068.4
42.5°	949.8	967.7	995.3	1016.7	1028.3
45°	902.6	921.3	949.8	972.1	983.7
47.5°	853.6	871.4	902.6	928.5	938.3
50°	802.8	819.8	852.7	880.3	891.9
52.5°	751.1	769.0	801.9	831.3	843.8
55°	698.6	716.4	751.1	781.4	794.8
57.5°	645.1	662.9	698.6	729.8	745.8
60°	589.9	607.7	645.1	677.2	693.2
62.5°	532.8	551.6	589.9	622.8	639.8
65°	475.8	493.6	533.7	569.4	582.7
67.5°	418.8	436.6	475.8	511.5	527.5
70°	360.0	380.5	418.8	456.2	470.5
72.5°	298.5	321.7	360.0	399.2	413.4
75°	241.5	263.7	304.7	341.3	357.3
77.5°	185.3	209.4	247.7	285.1	301.2
80°	131.9	155.0	194.2	229.9	246.8
82.5°	83.8	104.3	143.5	175.5	188.0
85°	42.8	60.6	90.0	100.7	106.9
87.5°	12.5	21.4	32.1	40.1	44.6
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	16.69	18.35	17.06	18.67	18.98	17.43	19.09	17.79	19.40	19.72
	3H	18.46	19.97	18.84	20.29	20.65	19.51	21.01	19.88	21.34	21.70
	4H	19.08	20.50	19.48	20.85	21.22	20.37	21.79	20.77	22.14	22.51
	6H	19.49	20.81	19.90	21.17	21.56	21.12	22.44	21.53	22.80	23.19
	8H	19.59	20.85	20.02	21.24	21.64	21.41	22.67	21.84	23.06	23.46
	12H	19.64	20.85	20.07	21.23	21.66	21.61	22.81	22.04	23.20	23.62
4H	2H	17.46	18.88	17.86	19.23	19.60	18.03	19.45	18.43	19.80	20.17
	3H	19.45	20.65	19.86	21.04	21.44	20.35	21.54	20.75	21.94	22.34
	4H	20.20	21.28	20.63	21.69	22.13	21.36	22.45	21.80	22.86	23.30
	6H	20.72	21.67	21.18	22.11	22.57	22.27	23.22	22.72	23.66	24.11
	8H	20.87	21.76	21.32	22.20	22.66	22.64	23.53	23.10	23.97	24.43
	12H	20.95	21.75	21.43	22.22	22.69	22.89	23.69	23.37	24.17	24.63
8H	4H	20.64	21.53	21.10	21.97	22.44	21.66	22.55	22.12	22.99	23.46
	6H	21.30	22.05	21.80	22.53	23.01	22.72	23.46	23.21	23.95	24.42
	8H	21.51	22.18	22.02	22.68	23.17	23.19	23.86	23.70	24.36	24.85
	12H	21.65	22.24	22.16	22.73	23.29	23.54	24.13	24.05	24.62	25.18
12H	4H	20.72	21.52	21.20	22.00	22.47	21.69	22.49	22.17	22.96	23.43
	6H	21.43	22.09	21.93	22.60	23.08	22.77	23.44	23.28	23.94	24.43
	8H	21.70	22.29	22.21	22.78	23.34	23.31	23.90	23.81	24.39	24.95