

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: P1587672

Luminaire Tested: 22CZSP-SB-42-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587672
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-L830-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

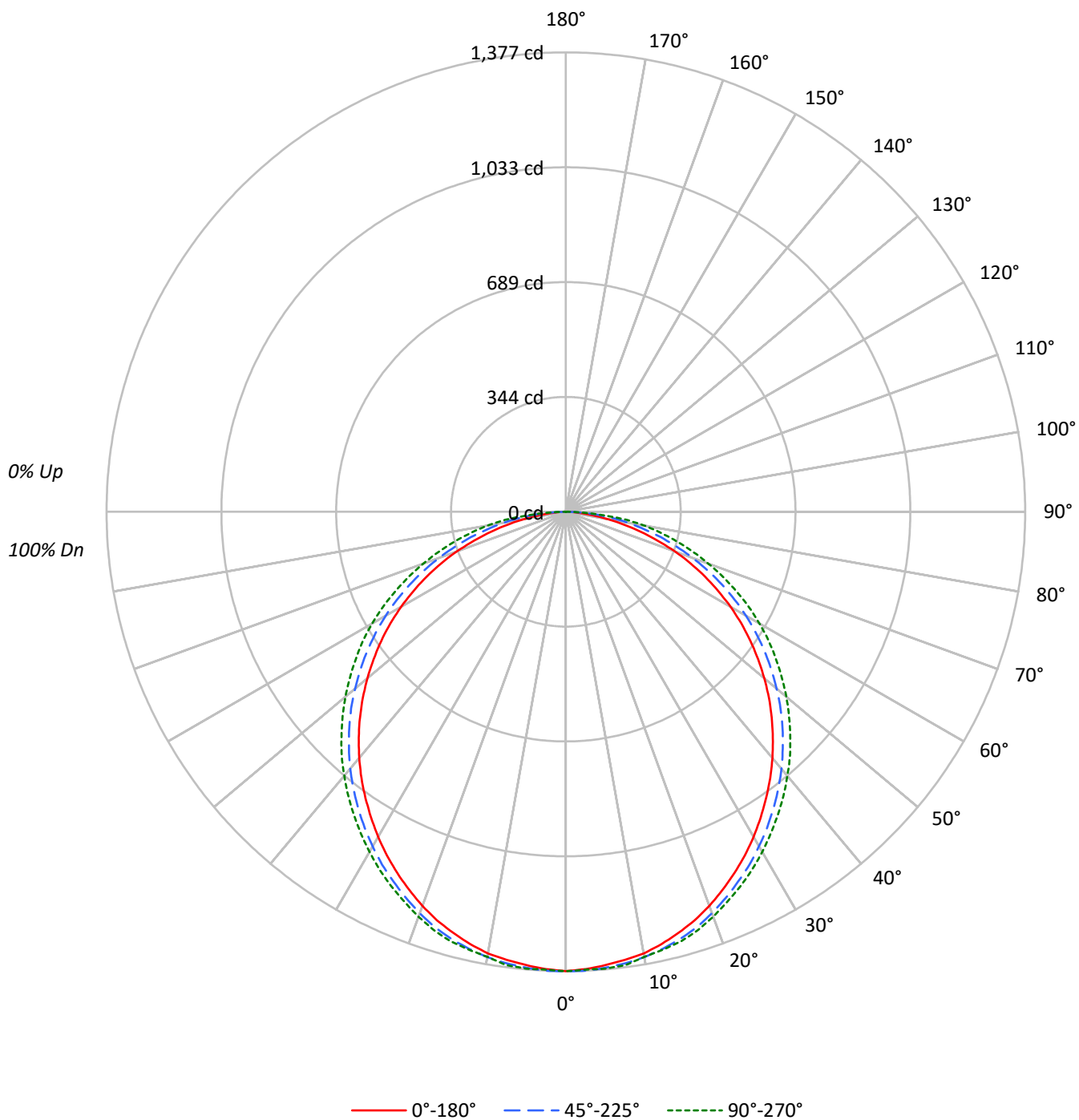
Lumens per Lamp: N/A
Luminaire Lumens: 4006.0 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	4312	4312	4312
5°	4288	4313	4320
10°	4275	4310	4307
15°	4235	4297	4322
20°	4190	4267	4305
25°	4130	4225	4279
30°	4070	4188	4256
35°	4003	4148	4236
40°	3938	4111	4224
45°	3866	4068	4213
50°	3783	4018	4202
55°	3688	3966	4197
60°	3573	3907	4199
65°	3410	3825	4176
70°	3188	3708	4166
75°	2825	3565	4181
80°	2299	3388	4304
85°	1487	3126	3715

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4361 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	3.3
10°-20°	373.2	9.3
20°-30°	562.7	14.0
30°-40°	677.0	16.9
40°-50°	706.2	17.6
50°-60°	647.3	16.2
60°-70°	508.3	12.7
70°-80°	309.4	7.7
80°-90°	91.5	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°	1066.2	26.6
0°-40°	1743.2	43.5
0°-60°	3096.8	77.3
0°-90°	4006.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4006.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1377	1377	1377	1377	1377	
5°	1364	1373	1372	1370	1374	130
15°	1306	1319	1325	1327	1333	369
25°	1195	1212	1223	1231	1238	551
35°	1047	1063	1085	1100	1108	655
45°	873	891	919	940	951	673
55°	676	693	726	756	769	604
65°	460	477	516	551	564	455
75°	234	255	295	330	346	248
85°	41	59	87	97	103	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1377.1	1377.1	1377.1	1377.1	1377.1
2.5°	1372.0	1378.8	1377.1	1371.1	1373.7
5°	1364.2	1372.8	1372.0	1370.2	1374.5
7.5°	1354.7	1364.2	1365.1	1365.1	1370.2
10°	1344.4	1353.9	1355.6	1353.0	1354.7
12.5°	1327.1	1338.3	1341.8	1341.8	1344.4
15°	1306.5	1319.4	1325.4	1327.1	1333.2
17.5°	1284.1	1297.8	1305.6	1309.9	1315.1
20°	1257.3	1272.0	1280.6	1285.8	1291.8
22.5°	1227.2	1243.5	1253.0	1258.2	1265.1
25°	1195.3	1211.7	1222.9	1230.6	1238.4
27.5°	1161.7	1177.2	1192.7	1202.2	1209.1
30°	1125.5	1141.9	1158.2	1170.3	1177.2
32.5°	1086.7	1103.9	1122.9	1135.8	1143.6
35°	1047.1	1063.4	1085.0	1100.5	1108.2
37.5°	1006.6	1023.8	1046.2	1062.6	1072.1
40°	963.5	981.6	1005.7	1023.8	1033.3
42.5°	918.7	935.9	962.6	983.3	994.5
45°	873.0	891.1	918.7	940.2	951.4
47.5°	825.6	842.8	873.0	898.0	907.5
50°	776.5	792.8	824.7	851.4	862.6
52.5°	726.5	743.7	775.6	804.0	816.1
55°	675.6	692.9	726.5	755.8	768.7
57.5°	623.9	641.2	675.6	705.8	721.3
60°	570.5	587.7	623.9	655.0	670.5
62.5°	515.3	533.4	570.5	602.4	618.8
65°	460.2	477.4	516.2	550.7	563.6
67.5°	405.0	422.3	460.2	494.7	510.2
70°	348.2	368.0	405.0	441.2	455.0
72.5°	288.7	311.1	348.2	386.1	399.9
75°	233.5	255.1	294.7	330.1	345.6
77.5°	179.3	202.5	239.6	275.8	291.3
80°	127.5	149.9	187.9	222.3	238.7
82.5°	81.0	100.8	138.7	169.8	181.8
85°	41.4	58.6	87.0	97.4	103.4
87.5°	12.1	20.7	31.0	38.8	43.1
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	16.58	18.24	16.94	18.55	18.87	17.31	18.97	17.68	19.29	19.60
	3H	18.35	19.85	18.72	20.18	20.54	19.39	20.90	19.77	21.22	21.58
	4H	18.97	20.38	19.36	20.73	21.11	20.26	21.68	20.65	22.02	22.40
	6H	19.37	20.69	19.78	21.06	21.45	21.00	22.32	21.41	22.68	23.07
	8H	19.48	20.74	19.90	21.13	21.52	21.30	22.56	21.72	22.95	23.34
	12H	19.53	20.73	19.95	21.11	21.54	21.49	22.70	21.92	23.08	23.51
4H	2H	17.35	18.77	17.74	19.11	19.49	17.92	19.34	18.31	19.68	20.06
	3H	19.34	20.53	19.75	20.93	21.33	20.23	21.43	20.64	21.82	22.22
	4H	20.08	21.16	20.51	21.58	22.01	21.25	22.33	21.68	22.74	23.18
	6H	20.61	21.56	21.06	22.00	22.45	22.15	23.10	22.61	23.54	24.00
	8H	20.75	21.64	21.21	22.08	22.54	22.52	23.41	22.98	23.85	24.32
	12H	20.83	21.63	21.31	22.11	22.57	22.77	23.58	23.25	24.05	24.52
8H	4H	20.52	21.41	20.98	21.86	22.32	21.55	22.44	22.00	22.88	23.34
	6H	21.19	21.93	21.68	22.42	22.89	22.60	23.35	23.10	23.83	24.31
	8H	21.40	22.06	21.90	22.57	23.05	23.08	23.74	23.58	24.25	24.73
	12H	21.53	22.12	22.04	22.61	23.17	23.43	24.02	23.93	24.51	25.07
12H	4H	20.61	21.41	21.08	21.88	22.35	21.57	22.37	22.05	22.85	23.32
	6H	21.31	21.98	21.82	22.48	22.97	22.65	23.32	23.16	23.83	24.31
	8H	21.59	22.18	22.09	22.67	23.23	23.19	23.78	23.70	24.27	24.83