

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: P1587679

Luminaire Tested: 22CZSP-SB-42-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587679
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-42-L845
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 4000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

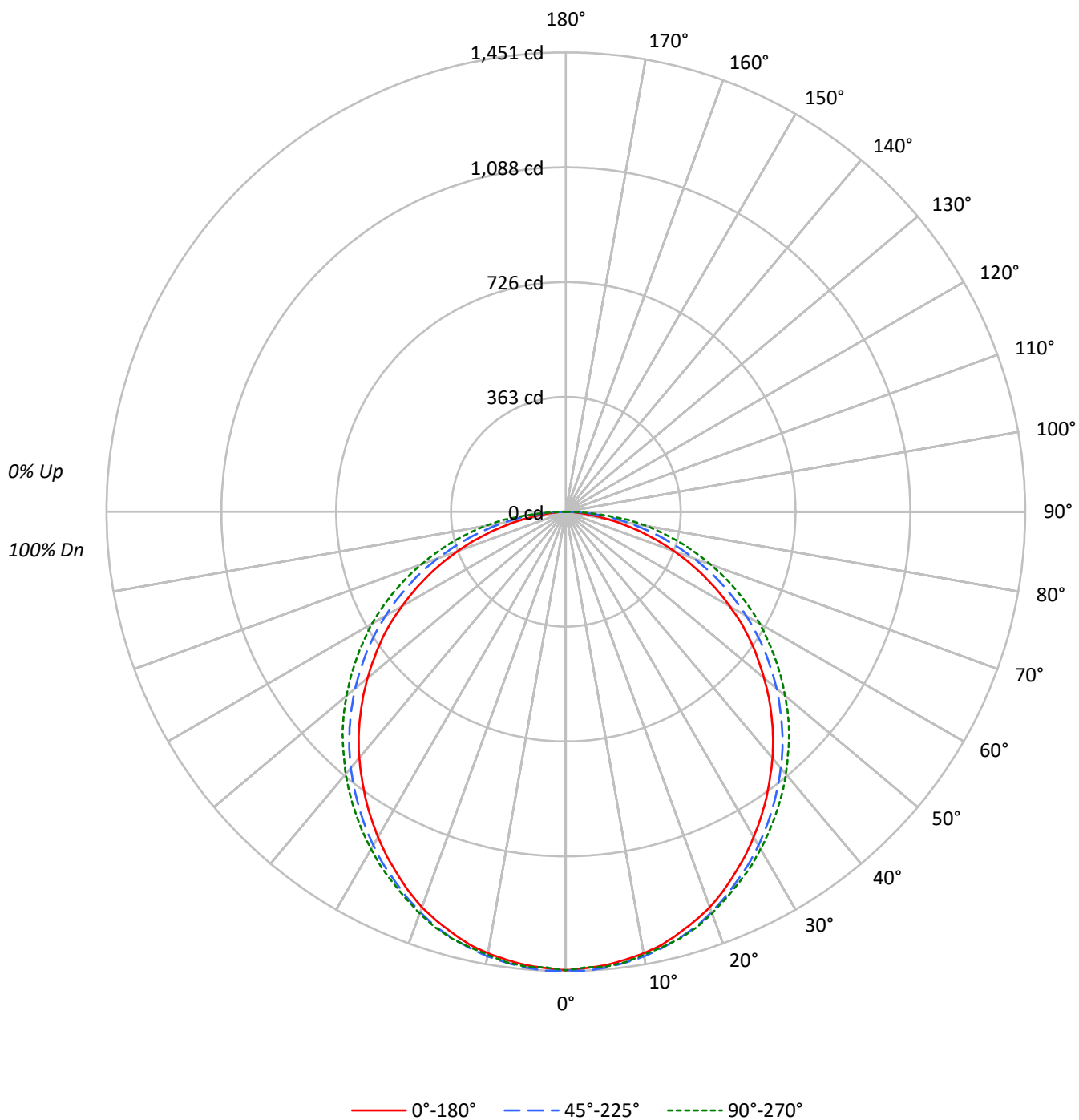
Lumens per Lamp: N/A
Luminaire Lumens: 4227.0 lumens
Efficiency: N/A
Efficacy: 146.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.9
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	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°	4535	4535	4535
5°	4519	4544	4533
10°	4503	4534	4517
15°	4469	4516	4521
20°	4430	4484	4499
25°	4358	4436	4467
30°	4289	4399	4448
35°	4220	4357	4432
40°	4151	4319	4421
45°	4073	4279	4417
50°	3983	4232	4406
55°	3892	4186	4406
60°	3748	4124	4432
65°	3573	4043	4434
70°	3333	3931	4448
75°	2965	3788	4525
80°	2436	3630	4694
85°	1606	3406	4243

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4808 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	3.2
10°-20°	392.2	9.3
20°-30°	591.1	14.0
30°-40°	711.8	16.8
40°-50°	743.7	17.6
50°-60°	683.2	16.2
60°-70°	538.0	12.7
70°-80°	329.9	7.8
80°-90°	100.0	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°	1120.3	26.5
0°-40°	1832.1	43.3
0°-60°	3259.1	77.1
0°-90°	4227.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4227.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1448	1448	1448	1448	1448	
5°	1438	1440	1446	1444	1442	137
15°	1379	1384	1393	1398	1395	389
25°	1261	1270	1284	1297	1293	582
35°	1104	1118	1140	1160	1160	691
45°	920	939	966	993	998	709
55°	713	734	767	800	807	636
65°	482	507	546	582	598	477
75°	245	274	313	351	374	261
85°	45	66	95	106	118	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1448.4	1448.4	1448.4	1448.4	1448.4
2.5°	1443.1	1446.6	1451.1	1444.0	1440.4
5°	1437.7	1440.4	1445.7	1444.0	1442.2
7.5°	1427.8	1429.6	1436.8	1436.8	1435.0
10°	1416.2	1419.8	1426.1	1425.2	1420.7
12.5°	1401.0	1403.7	1410.8	1410.8	1408.2
15°	1378.6	1384.0	1393.0	1398.3	1394.7
17.5°	1355.4	1360.7	1372.4	1377.7	1376.0
20°	1329.4	1333.9	1345.5	1353.6	1350.0
22.5°	1297.2	1302.6	1316.0	1325.0	1321.4
25°	1261.4	1269.5	1283.8	1297.2	1292.8
27.5°	1225.7	1234.6	1252.5	1265.9	1264.1
30°	1186.3	1197.9	1216.7	1233.7	1230.1
32.5°	1146.0	1159.5	1179.1	1197.0	1196.1
35°	1104.0	1118.3	1139.8	1160.3	1159.5
37.5°	1059.3	1076.3	1098.6	1121.0	1121.9
40°	1015.4	1031.5	1056.6	1080.7	1081.6
42.5°	968.9	985.9	1012.7	1037.8	1038.7
45°	919.7	939.4	966.2	993.1	997.5
47.5°	869.6	890.2	917.9	946.5	951.9
50°	817.7	839.2	868.7	899.1	904.5
52.5°	764.9	787.3	817.7	848.1	856.2
55°	713.0	733.6	766.7	799.8	807.0
57.5°	658.5	677.2	713.0	747.9	756.9
60°	598.5	621.8	658.5	693.3	707.7
62.5°	540.4	565.4	603.0	637.9	654.0
65°	482.2	507.3	545.7	582.4	598.5
67.5°	423.2	449.1	490.3	525.2	543.0
70°	364.1	390.1	429.4	467.0	485.8
72.5°	305.1	332.8	371.3	409.7	428.5
75°	245.1	273.8	313.1	350.7	374.0
77.5°	188.8	216.5	255.9	294.3	314.0
80°	135.1	162.8	201.3	239.8	260.3
82.5°	85.9	111.8	149.4	181.6	200.4
85°	44.7	66.2	94.8	105.6	118.1
87.5°	13.4	25.9	36.7	41.2	51.0
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	16.77	18.43	17.13	18.74	19.06	17.51	19.18	17.88	19.49	19.80
	3H	18.53	20.04	18.91	20.36	20.72	19.61	21.12	19.98	21.44	21.80
	4H	19.15	20.58	19.55	20.92	21.30	20.49	21.92	20.89	22.26	22.64
	6H	19.57	20.89	19.98	21.25	21.64	21.26	22.58	21.67	22.94	23.33
	8H	19.67	20.93	20.10	21.32	21.72	21.57	22.83	21.99	23.22	23.62
	12H	19.72	20.93	20.15	21.32	21.74	21.78	22.99	22.21	23.38	23.80
4H	2H	17.54	18.96	17.93	19.31	19.68	18.12	19.54	18.51	19.89	20.26
	3H	19.53	20.73	19.94	21.12	21.52	20.44	21.64	20.85	22.04	22.44
	4H	20.28	21.37	20.71	21.78	22.22	21.48	22.57	21.91	22.98	23.41
	6H	20.82	21.77	21.27	22.21	22.67	22.41	23.36	22.86	23.80	24.26
	8H	20.97	21.86	21.43	22.30	22.77	22.79	23.69	23.25	24.13	24.59
	12H	21.05	21.86	21.53	22.33	22.80	23.07	23.87	23.55	24.35	24.82
8H	4H	20.74	21.63	21.19	22.07	22.53	21.78	22.67	22.24	23.11	23.58
	6H	21.41	22.16	21.91	22.64	23.12	22.86	23.61	23.36	24.09	24.57
	8H	21.63	22.30	22.14	22.81	23.29	23.35	24.02	23.86	24.52	25.01
	12H	21.78	22.37	22.29	22.86	23.42	23.73	24.32	24.23	24.81	25.37
12H	4H	20.82	21.62	21.30	22.10	22.57	21.81	22.61	22.29	23.08	23.55
	6H	21.54	22.21	22.05	22.72	23.20	22.92	23.59	23.42	24.09	24.58
	8H	21.83	22.42	22.34	22.91	23.47	23.47	24.06	23.97	24.55	25.11