

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: P1586635

Luminaire Tested: 22CZSP-A-42-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-772-10)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-A-42-L835
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

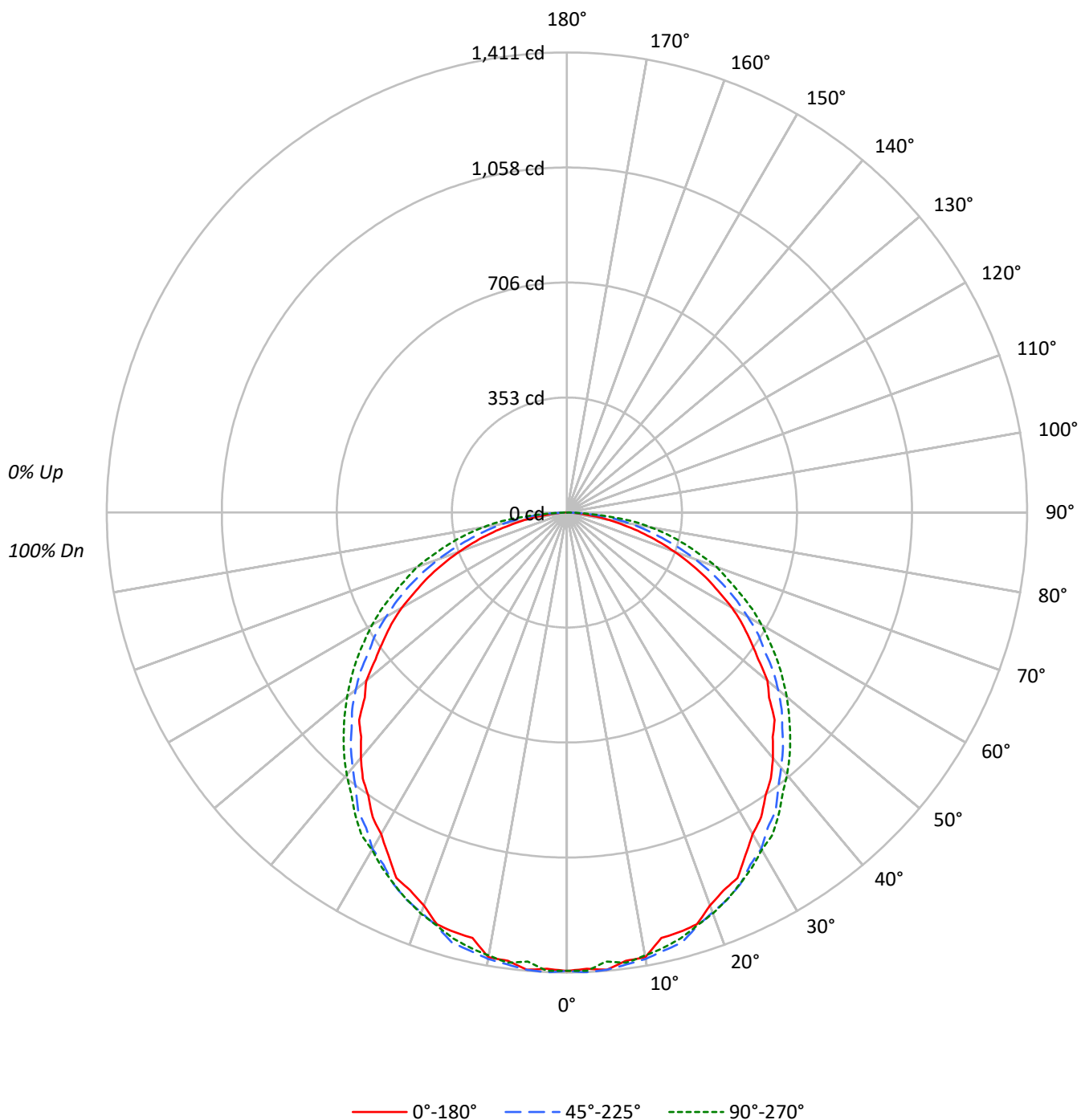
Lumens per Lamp: N/A
Luminaire Lumens: 4105.0 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	31	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°	4403	4403	4403
5°	4425	4425	4345
10°	4404	4420	4387
15°	4319	4424	4382
20°	4274	4350	4361
25°	4274	4346	4341
30°	4118	4308	4321
35°	4056	4267	4327
40°	4015	4176	4291
45°	3989	4133	4288
50°	3911	4115	4286
55°	3752	4038	4296
60°	3662	4007	4320
65°	3476	3950	4333
70°	3206	3823	4481
75°	2849	3654	4522
80°	2368	3583	4688
85°	1448	3208	3963

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4851 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.3	3.2
10°-20°	381.0	9.3
20°-30°	574.6	14.0
30°-40°	690.2	16.8
40°-50°	720.4	17.6
50°-60°	663.4	16.2
60°-70°	523.8	12.8
70°-80°	322.6	7.9
80°-90°	95.6	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°	1088.9	26.5
0°-40°	1779.1	43.3
0°-60°	3162.9	77.1
0°-90°	4105.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4105.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1406	1406	1406	1406	1406	
5°	1408	1394	1408	1410	1382	133
15°	1332	1351	1365	1359	1352	377
25°	1237	1246	1258	1253	1256	564
35°	1061	1080	1116	1121	1132	667
45°	901	908	933	953	968	689
55°	687	706	740	773	787	617
65°	469	486	533	572	585	462
75°	236	258	302	350	374	250
85°	40	58	89	106	110	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1406.0	1406.0	1406.0	1406.0	1406.0
2.5°	1400.7	1415.6	1411.2	1413.8	1406.8
5°	1407.7	1393.7	1407.7	1409.5	1382.3
7.5°	1386.7	1388.5	1398.1	1400.7	1392.8
10°	1385.0	1390.2	1390.2	1381.4	1379.7
12.5°	1336.8	1363.1	1376.2	1382.3	1367.4
15°	1332.4	1350.8	1364.8	1358.7	1351.7
17.5°	1324.5	1319.3	1328.9	1335.9	1328.0
20°	1282.5	1291.3	1305.3	1307.0	1308.8
22.5°	1254.5	1257.1	1285.2	1287.8	1284.3
25°	1237.0	1245.8	1258.0	1252.8	1256.3
27.5°	1185.3	1206.4	1217.7	1228.2	1228.2
30°	1139.0	1163.5	1191.5	1195.0	1195.0
32.5°	1108.3	1124.9	1146.0	1153.0	1172.2
35°	1061.0	1080.3	1116.2	1121.4	1131.9
37.5°	1027.8	1047.0	1063.7	1082.0	1086.4
40°	982.2	1002.4	1021.6	1042.7	1049.7
42.5°	934.1	955.1	980.5	1002.4	1011.1
45°	900.8	907.8	933.2	953.4	968.2
47.5°	840.4	860.6	893.0	918.3	924.5
50°	802.8	810.7	844.8	878.9	879.8
52.5°	739.7	763.4	796.7	829.0	833.4
55°	687.2	705.6	739.7	773.0	787.0
57.5°	638.2	652.2	696.0	729.2	737.1
60°	584.8	599.7	639.9	678.5	689.8
62.5°	522.6	543.7	587.4	624.2	639.9
65°	469.2	485.9	533.1	571.7	584.8
67.5°	408.8	431.6	476.2	519.1	533.1
70°	350.2	372.9	417.6	462.2	489.4
72.5°	292.4	316.0	360.7	412.3	427.2
75°	235.5	258.3	302.0	350.2	373.8
77.5°	179.5	204.0	248.6	296.8	319.5
80°	131.3	150.6	198.7	240.7	260.0
82.5°	81.4	101.6	146.2	185.6	202.2
85°	40.3	57.8	89.3	105.9	110.3
87.5°	12.3	18.4	28.0	36.8	42.0
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	16.62	18.28	16.98	18.59	18.91	17.44	19.10	17.80	19.42	19.73
	3H	18.37	19.88	18.75	20.20	20.56	19.59	21.09	19.96	21.42	21.78
	4H	18.98	20.41	19.38	20.75	21.13	20.50	21.92	20.90	22.27	22.64
	6H	19.39	20.71	19.80	21.07	21.46	21.30	22.62	21.71	22.99	23.38
	8H	19.49	20.75	19.91	21.14	21.54	21.62	22.89	22.05	23.27	23.67
	12H	19.53	20.75	19.96	21.13	21.56	21.83	23.04	22.26	23.42	23.85
4H	2H	17.41	18.83	17.80	19.18	19.55	18.04	19.47	18.44	19.81	20.19
	3H	19.38	20.58	19.79	20.98	21.38	20.42	21.62	20.83	22.02	22.42
	4H	20.11	21.20	20.54	21.61	22.05	21.49	22.58	21.92	22.99	23.42
	6H	20.63	21.59	21.09	22.02	22.48	22.46	23.41	22.91	23.85	24.30
	8H	20.77	21.67	21.23	22.11	22.57	22.86	23.75	23.31	24.19	24.65
	12H	20.85	21.65	21.33	22.13	22.60	23.12	23.93	23.60	24.40	24.87
8H	4H	20.58	21.47	21.04	21.91	22.38	21.78	22.67	22.24	23.11	23.58
	6H	21.23	21.98	21.73	22.46	22.94	22.91	23.65	23.40	24.14	24.61
	8H	21.44	22.11	21.95	22.61	23.10	23.41	24.08	23.92	24.59	25.07
	12H	21.57	22.16	22.07	22.65	23.21	23.78	24.37	24.29	24.86	25.42
12H	4H	20.67	21.47	21.15	21.95	22.42	21.81	22.61	22.28	23.08	23.55
	6H	21.37	22.04	21.88	22.55	23.03	22.95	23.62	23.46	24.13	24.61
	8H	21.65	22.24	22.15	22.73	23.29	23.53	24.12	24.03	24.61	25.17