

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: P1586633

Luminaire Tested: 22CZSP-A-42-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586633
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-L830
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

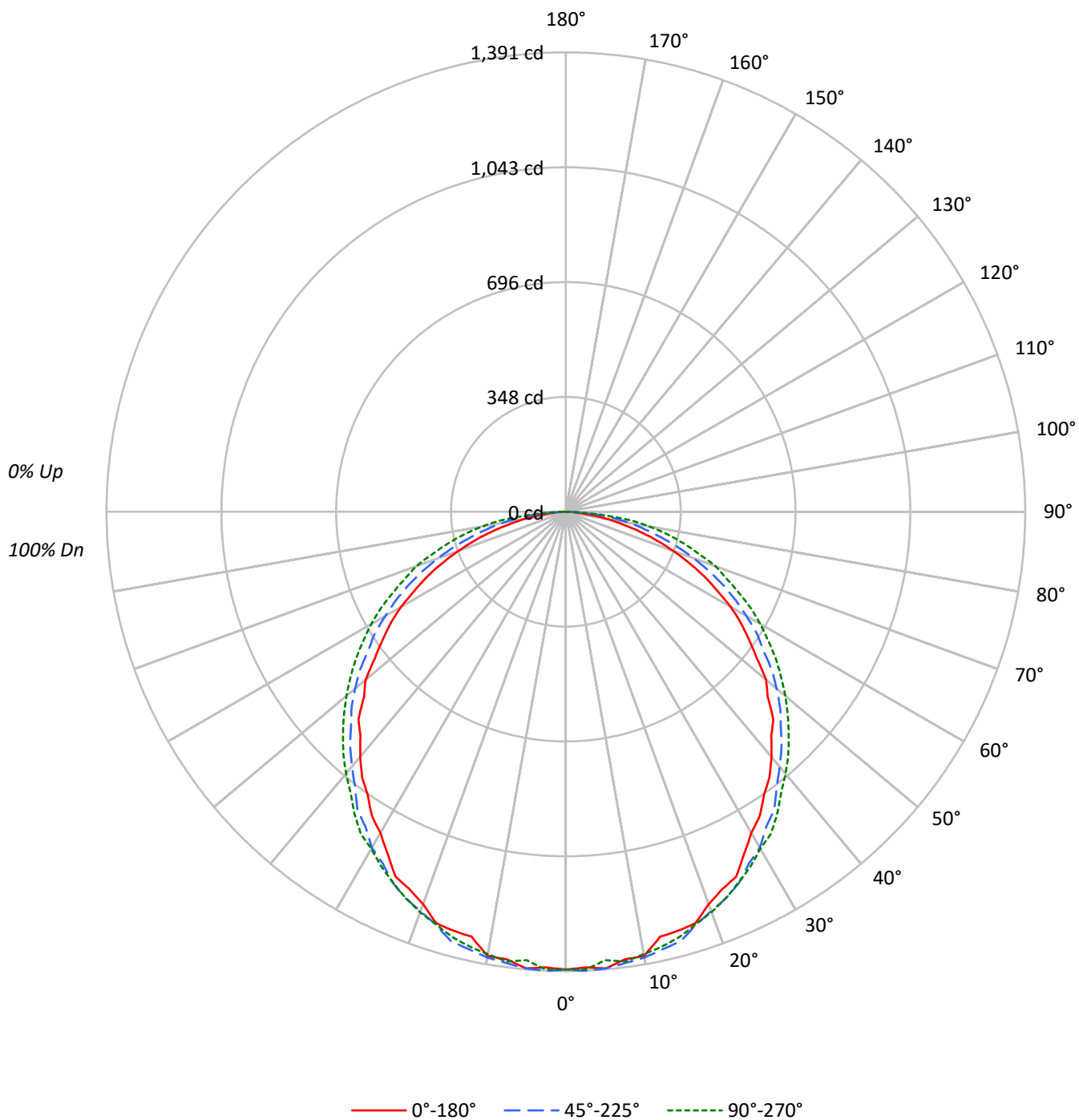
Lumens per Lamp: N/A
Luminaire Lumens: 4047.0 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		69
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45
8	60	46	37	31	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4340	4340	4340
5°	4362	4362	4284
10°	4341	4358	4325
15°	4258	4362	4320
20°	4213	4288	4300
25°	4213	4285	4279
30°	4060	4247	4260
35°	3998	4206	4266
40°	3958	4117	4230
45°	3933	4074	4227
50°	3855	4057	4226
55°	3699	3981	4236
60°	3610	3951	4259
65°	3428	3894	4271
70°	3160	3769	4417
75°	2809	3603	4458
80°	2335	3533	4622
85°	1426	3162	3905

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4784 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.4	3.2
10°-20°	375.6	9.3
20°-30°	566.5	14.0
30°-40°	680.4	16.8
40°-50°	710.3	17.6
50°-60°	654.0	16.2
60°-70°	516.4	12.8
70°-80°	318.0	7.9
80°-90°	94.3	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°	1073.5	26.5
0°-40°	1754.0	43.3
0°-60°	3118.2	77.1
0°-90°	4047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4047.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1386	1386	1386	1386	1386	
5°	1388	1374	1388	1390	1363	131
15°	1314	1332	1346	1340	1333	371
25°	1220	1228	1240	1235	1238	556
35°	1046	1065	1100	1106	1116	657
45°	888	895	920	940	955	679
55°	678	696	729	762	776	608
65°	463	479	526	564	576	456
75°	232	255	298	345	368	246
85°	40	57	88	104	109	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1386.1	1386.1	1386.1	1386.1	1386.1
2.5°	1380.9	1395.6	1391.3	1393.9	1387.0
5°	1387.8	1374.0	1387.8	1389.5	1362.8
7.5°	1367.1	1368.8	1378.3	1380.9	1373.2
10°	1365.4	1370.6	1370.6	1361.9	1360.2
12.5°	1317.9	1343.8	1356.8	1362.8	1348.1
15°	1313.6	1331.7	1345.5	1339.5	1332.6
17.5°	1305.8	1300.7	1310.1	1317.1	1309.3
20°	1264.4	1273.0	1286.8	1288.6	1290.3
22.5°	1236.8	1239.4	1267.0	1269.6	1266.1
25°	1219.5	1228.2	1240.2	1235.1	1238.5
27.5°	1168.6	1189.3	1200.5	1210.9	1210.9
30°	1122.9	1147.0	1174.6	1178.1	1178.1
32.5°	1092.7	1109.0	1129.8	1136.7	1155.7
35°	1046.0	1065.0	1100.4	1105.6	1116.0
37.5°	1013.2	1032.2	1048.6	1066.8	1071.1
40°	968.4	988.2	1007.2	1027.9	1034.8
42.5°	920.9	941.6	966.6	988.2	996.9
45°	888.1	895.0	920.0	939.9	954.6
47.5°	828.6	848.4	880.3	905.4	911.4
50°	791.4	799.2	832.9	866.5	867.4
52.5°	729.3	752.6	785.4	817.3	821.6
55°	677.5	695.6	729.3	762.1	775.9
57.5°	629.2	643.0	686.1	718.9	726.7
60°	576.5	591.2	630.9	668.9	680.1
62.5°	515.3	536.0	579.1	615.4	630.9
65°	462.6	479.0	525.6	563.6	576.5
67.5°	403.1	425.5	469.5	511.8	525.6
70°	345.2	367.7	411.7	455.7	482.5
72.5°	288.3	311.6	355.6	406.5	421.2
75°	232.2	254.6	297.8	345.2	368.5
77.5°	176.9	201.1	245.1	292.6	315.0
80°	129.5	148.4	195.9	237.3	256.3
82.5°	80.3	100.1	144.1	183.0	199.4
85°	39.7	57.0	88.0	104.4	108.7
87.5°	12.1	18.1	27.6	36.2	41.4
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	16.57	18.23	16.93	18.54	18.86	17.39	19.05	17.75	19.37	19.68
	3H	18.32	19.83	18.70	20.15	20.51	19.54	21.04	19.91	21.37	21.73
	4H	18.93	20.36	19.33	20.70	21.08	20.45	21.87	20.85	22.22	22.60
	6H	19.34	20.66	19.75	21.02	21.41	21.25	22.57	21.66	22.94	23.33
	8H	19.44	20.70	19.86	21.09	21.49	21.57	22.84	22.00	23.23	23.62
	12H	19.49	20.70	19.91	21.08	21.51	21.78	22.99	22.21	23.37	23.80
4H	2H	17.36	18.78	17.76	19.13	19.50	17.99	19.42	18.39	19.76	20.14
	3H	19.33	20.53	19.74	20.93	21.33	20.37	21.57	20.78	21.97	22.37
	4H	20.06	21.15	20.49	21.56	22.00	21.44	22.53	21.87	22.94	23.38
	6H	20.58	21.54	21.04	21.98	22.43	22.41	23.36	22.86	23.80	24.25
	8H	20.72	21.62	21.18	22.06	22.52	22.81	23.70	23.26	24.14	24.60
	12H	20.80	21.60	21.28	22.08	22.55	23.07	23.88	23.55	24.35	24.82
8H	4H	20.53	21.42	20.99	21.86	22.33	21.73	22.62	22.19	23.06	23.53
	6H	21.18	21.93	21.68	22.42	22.89	22.86	23.60	23.35	24.09	24.56
	8H	21.39	22.06	21.90	22.56	23.05	23.36	24.03	23.87	24.54	25.02
	12H	21.52	22.11	22.02	22.60	23.16	23.73	24.32	24.24	24.81	25.37
12H	4H	20.62	21.42	21.10	21.90	22.37	21.76	22.56	22.23	23.03	23.50
	6H	21.32	21.99	21.83	22.50	22.98	22.91	23.58	23.41	24.08	24.56
	8H	21.60	22.19	22.10	22.68	23.24	23.48	24.07	23.98	24.56	25.12