

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: P1586642

Luminaire Tested: 22CZSP-A-42-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-A-42-L930-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

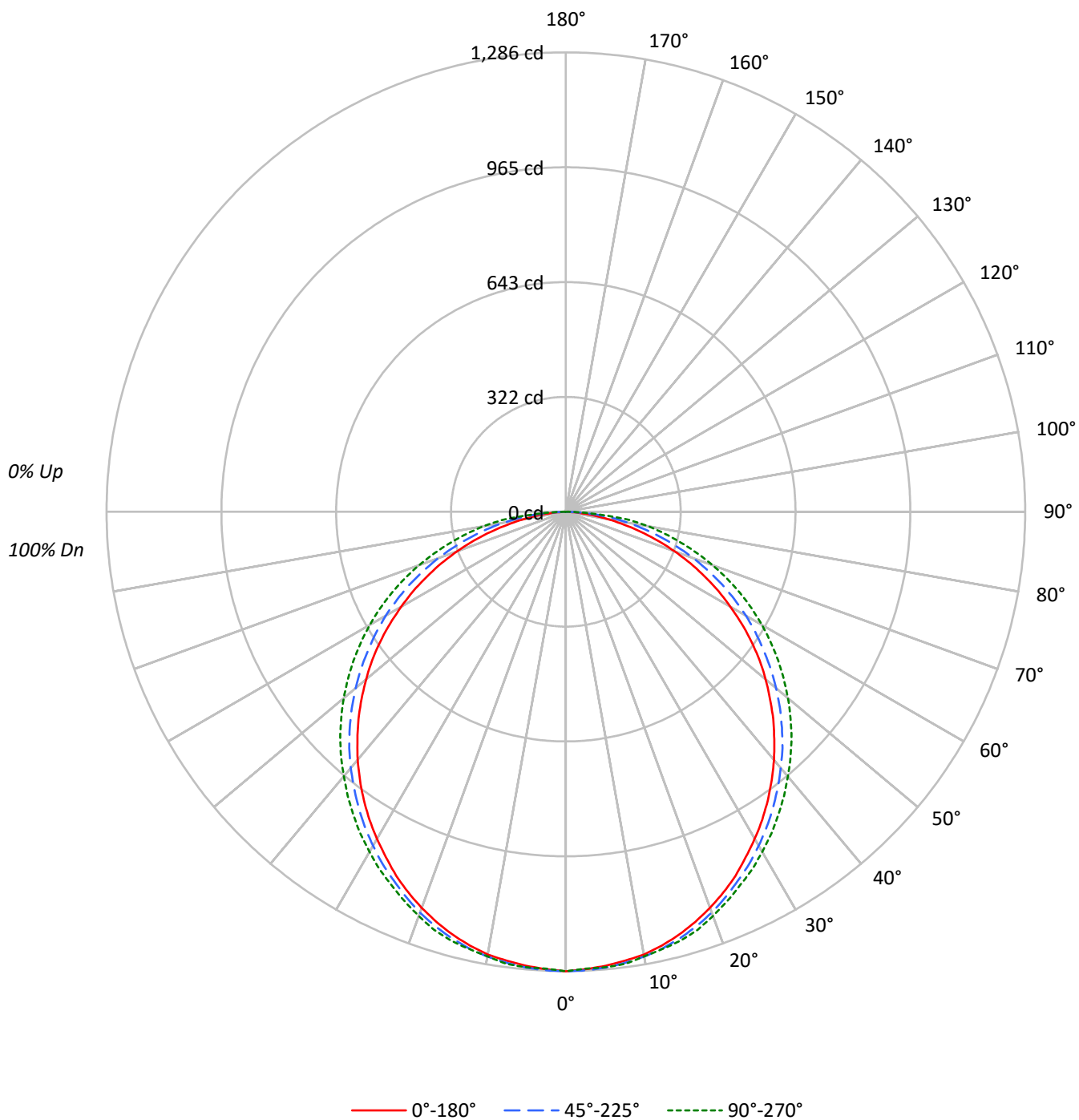
Lumens per Lamp: N/A
Luminaire Lumens: 3756.0 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	64	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	32	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°	4028	4028	4028
5°	4010	4026	4023
10°	4002	4020	4017
15°	3973	4005	4029
20°	3933	3979	4012
25°	3884	3938	3986
30°	3823	3904	3975
35°	3768	3866	3963
40°	3706	3827	3952
45°	3635	3788	3956
50°	3557	3742	3955
55°	3464	3689	3960
60°	3334	3649	3969
65°	3182	3579	3982
70°	2965	3478	3999
75°	2642	3340	4038
80°	2186	3181	4236
85°	1423	2871	3701

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4369 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.7	3.2
10°-20°	348.4	9.3
20°-30°	525.4	14.0
30°-40°	632.9	16.9
40°-50°	660.9	17.6
50°-60°	607.0	16.2
60°-70°	478.1	12.7
70°-80°	293.3	7.8
80°-90°	88.3	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°	995.5	26.5
0°-40°	1628.4	43.4
0°-60°	2896.3	77.1
0°-90°	3756.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3756.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1286	1286	1286	1286	1286	
5°	1276	1278	1281	1285	1280	121
15°	1226	1228	1235	1243	1243	346
25°	1124	1127	1140	1154	1154	517
35°	986	991	1011	1032	1037	617
45°	821	830	856	885	893	633
55°	635	646	676	714	725	567
65°	429	444	483	523	537	425
75°	218	236	276	320	334	232
85°	40	54	80	101	103	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1286.5	1286.5	1286.5	1286.5	1286.5
2.5°	1281.6	1284.1	1284.9	1285.7	1279.9
5°	1275.8	1277.5	1280.8	1284.9	1279.9
7.5°	1267.6	1269.2	1273.3	1279.1	1276.6
10°	1258.5	1259.3	1264.3	1268.4	1263.5
12.5°	1243.7	1246.1	1251.9	1255.2	1253.6
15°	1225.5	1228.0	1235.4	1242.8	1242.8
17.5°	1204.1	1207.4	1216.5	1226.4	1227.2
20°	1180.2	1182.7	1194.2	1204.1	1204.1
22.5°	1153.0	1156.3	1167.8	1178.6	1180.2
25°	1124.2	1126.6	1139.8	1153.8	1153.8
27.5°	1090.4	1095.3	1111.8	1125.8	1129.1
30°	1057.4	1061.5	1079.7	1097.0	1099.4
32.5°	1022.8	1027.7	1046.7	1065.7	1069.8
35°	985.7	990.7	1011.3	1031.9	1036.8
37.5°	947.0	952.7	974.2	998.1	1003.0
40°	906.6	913.2	936.3	961.8	966.8
42.5°	863.7	872.8	897.5	923.9	931.3
45°	820.9	829.9	855.5	885.2	893.4
47.5°	775.5	786.3	812.6	844.0	853.0
50°	730.2	740.9	768.1	801.9	811.8
52.5°	684.1	694.8	722.8	758.2	769.0
55°	634.6	646.1	675.8	713.7	725.3
57.5°	583.5	598.3	629.7	668.4	679.9
60°	532.4	547.2	582.7	620.6	633.8
62.5°	482.1	496.2	532.4	572.8	586.8
65°	429.4	444.2	483.0	523.3	537.4
67.5°	377.5	392.3	431.0	473.1	487.9
70°	323.9	340.4	379.9	422.0	436.8
72.5°	270.3	287.6	328.0	370.9	384.9
75°	218.4	235.7	276.1	319.8	333.8
77.5°	167.3	186.3	225.8	270.3	283.5
80°	121.2	139.3	176.4	220.1	234.9
82.5°	77.5	93.1	130.2	171.4	182.1
85°	39.6	54.4	79.9	101.4	103.0
87.5°	12.4	17.3	26.4	39.6	40.4
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	16.32	17.98	16.68	18.30	18.61	17.15	18.81	17.51	19.13	19.44
	3H	18.07	19.58	18.45	19.91	20.27	19.27	20.77	19.64	21.10	21.46
	4H	18.69	20.12	19.09	20.46	20.84	20.15	21.58	20.55	21.92	22.30
	6H	19.10	20.42	19.51	20.79	21.18	20.94	22.26	21.35	22.62	23.01
	8H	19.21	20.47	19.64	20.86	21.26	21.26	22.52	21.68	22.91	23.31
	12H	19.26	20.47	19.69	20.86	21.28	21.47	22.68	21.90	23.06	23.49
4H	2H	17.09	18.51	17.49	18.86	19.24	17.74	19.16	18.13	19.51	19.88
	3H	19.07	20.27	19.48	20.66	21.06	20.09	21.29	20.50	21.69	22.09
	4H	19.80	20.89	20.24	21.30	21.74	21.14	22.23	21.58	22.64	23.08
	6H	20.33	21.29	20.79	21.73	22.18	22.10	23.05	22.55	23.49	23.94
	8H	20.48	21.37	20.94	21.81	22.28	22.49	23.39	22.95	23.83	24.29
	12H	20.56	21.37	21.04	21.84	22.31	22.77	23.57	23.25	24.05	24.52
8H	4H	20.26	21.16	20.72	21.60	22.06	21.43	22.33	21.89	22.77	23.23
	6H	20.93	21.67	21.42	22.16	22.63	22.55	23.29	23.04	23.78	24.25
	8H	21.14	21.80	21.64	22.31	22.79	23.06	23.73	23.56	24.23	24.71
	12H	21.28	21.87	21.78	22.36	22.92	23.44	24.03	23.95	24.52	25.08
12H	4H	20.35	21.16	20.83	21.63	22.10	21.46	22.26	21.94	22.74	23.20
	6H	21.06	21.73	21.56	22.23	22.72	22.59	23.26	23.10	23.77	24.25
	8H	21.34	21.93	21.84	22.42	22.98	23.17	23.76	23.68	24.25	24.81