

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: P1586323

Luminaire Tested: 22CZSP-31-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586323
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-31-L930
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 3000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

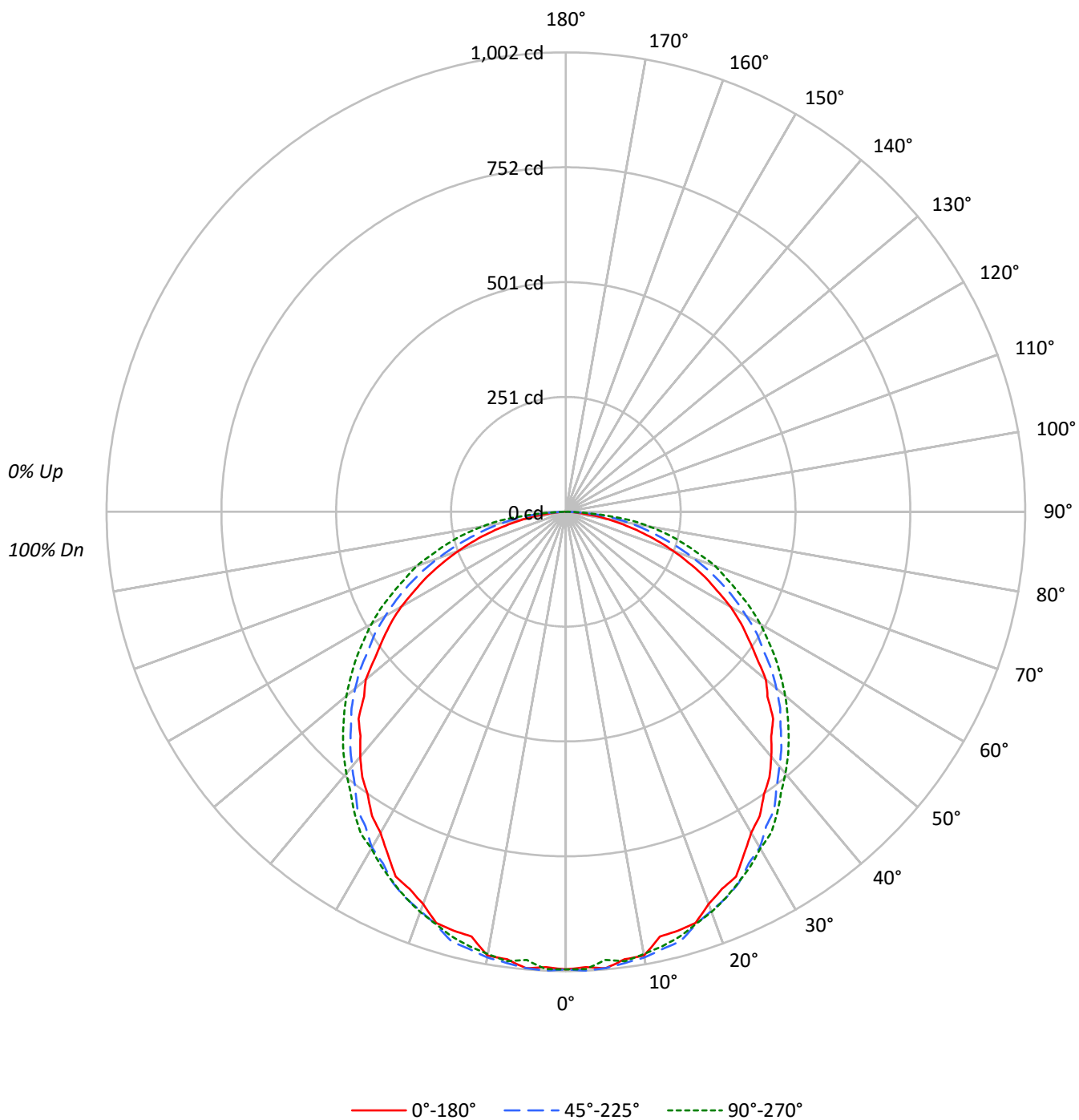
Lumens per Lamp: N/A
Luminaire Lumens: 2914.0 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 21
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

TEST NUMBER: P1586323

CATALOG NUMBER: 22CZSP-31-L930

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°	3125	3125	3125
5°	3141	3141	3085
10°	3126	3138	3114
15°	3066	3141	3110
20°	3034	3088	3096
25°	3034	3085	3081
30°	2923	3058	3067
35°	2879	3029	3071
40°	2850	2964	3046
45°	2832	2934	3044
50°	2776	2921	3043
55°	2663	2867	3050
60°	2600	2845	3067
65°	2468	2804	3076
70°	2276	2714	3181
75°	2023	2594	3211
80°	1681	2544	3329
85°	1028	2278	2813

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3445 cd/sqm

TEST NUMBER: P1586323

CATALOG NUMBER: 22CZSP-31-L930

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.6	3.2
10°-20°	270.4	9.3
20°-30°	407.9	14.0
30°-40°	489.9	16.8
40°-50°	511.4	17.6
50°-60°	470.9	16.2
60°-70°	371.9	12.8
70°-80°	229.0	7.9
80°-90°	67.9	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°	773.0	26.5
0°-40°	1262.9	43.3
0°-60°	2245.3	77.1
0°-90°	2914.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2914.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	998	998	998	998	998	
5°	999	989	999	1000	981	94
15°	946	959	969	964	960	267
25°	878	884	893	889	892	400
35°	753	767	792	796	804	473
45°	640	644	662	677	687	489
55°	488	501	525	549	559	438
65°	333	345	378	406	415	328
75°	167	183	214	249	265	177
85°	29	41	63	75	78	39
90°	0	0	0	0	0	

TEST NUMBER: P1586323

CATALOG NUMBER: 22CZSP-31-L930

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	998.0	998.0	998.0	998.0	998.0
2.5°	994.3	1004.9	1001.8	1003.6	998.7
5°	999.3	989.3	999.3	1000.5	981.3
7.5°	984.4	985.6	992.5	994.3	988.7
10°	983.1	986.9	986.9	980.6	979.4
12.5°	948.9	967.6	976.9	981.3	970.7
15°	945.8	958.9	968.8	964.5	959.5
17.5°	940.2	936.5	943.4	948.3	942.7
20°	910.4	916.6	926.6	927.8	929.1
22.5°	890.5	892.4	912.3	914.1	911.7
25°	878.1	884.3	893.0	889.3	891.8
27.5°	841.4	856.4	864.4	871.9	871.9
30°	808.5	825.9	845.8	848.3	848.3
32.5°	786.8	798.6	813.5	818.4	832.1
35°	753.2	766.9	792.3	796.1	803.5
37.5°	729.6	743.3	755.1	768.1	771.2
40°	697.3	711.6	725.2	740.1	745.1
42.5°	663.1	678.0	696.0	711.6	717.8
45°	639.5	644.4	662.5	676.8	687.3
47.5°	596.6	610.9	633.9	651.9	656.2
50°	569.9	575.5	599.7	623.9	624.6
52.5°	525.1	541.9	565.5	588.5	591.6
55°	487.8	500.9	525.1	548.7	558.7
57.5°	453.0	463.0	494.1	517.7	523.3
60°	415.1	425.7	454.3	481.6	489.7
62.5°	371.0	385.9	417.0	443.1	454.3
65°	333.1	344.9	378.5	405.8	415.1
67.5°	290.2	306.4	338.1	368.5	378.5
70°	248.6	264.7	296.4	328.1	347.4
72.5°	207.6	224.3	256.0	292.7	303.3
75°	167.2	183.3	214.4	248.6	265.4
77.5°	127.4	144.8	176.5	210.7	226.8
80°	93.2	106.9	141.1	170.9	184.6
82.5°	57.8	72.1	103.8	131.7	143.6
85°	28.6	41.0	63.4	75.2	78.3
87.5°	8.7	13.1	19.9	26.1	29.8
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1586323

CATALOG NUMBER: 22CZSP-31-L930

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	15.43	17.09	15.79	17.40	17.72	16.25	17.91	16.61	18.23	18.54
	3H	17.18	18.69	17.56	19.01	19.37	18.40	19.90	18.77	20.23	20.59
	4H	17.79	19.22	18.19	19.56	19.94	19.31	20.73	19.71	21.08	21.45
	6H	18.20	19.52	18.61	19.88	20.27	20.11	21.43	20.52	21.80	22.19
	8H	18.30	19.56	18.72	19.95	20.35	20.43	21.70	20.86	22.08	22.48
	12H	18.34	19.55	18.77	19.94	20.36	20.64	21.85	21.07	22.23	22.66
4H	2H	16.22	17.64	16.61	17.99	18.36	16.85	18.28	17.25	18.62	19.00
	3H	18.19	19.39	18.60	19.79	20.18	19.23	20.43	19.64	20.83	21.23
	4H	18.92	20.01	19.35	20.42	20.86	20.30	21.39	20.73	21.80	22.23
	6H	19.44	20.39	19.89	20.83	21.29	21.27	22.22	21.72	22.66	23.11
	8H	19.58	20.47	20.04	20.92	21.38	21.67	22.56	22.12	23.00	23.46
	12H	19.66	20.46	20.14	20.94	21.40	21.93	22.74	22.41	23.21	23.68
8H	4H	19.39	20.28	19.85	20.72	21.19	20.59	21.48	21.05	21.92	22.39
	6H	20.04	20.79	20.53	21.27	21.75	21.72	22.46	22.21	22.95	23.42
	8H	20.25	20.92	20.76	21.42	21.91	22.22	22.89	22.73	23.40	23.88
	12H	20.38	20.97	20.88	21.46	22.02	22.59	23.18	23.10	23.67	24.23
12H	4H	19.48	20.28	19.96	20.76	21.23	20.61	21.42	21.09	21.89	22.36
	6H	20.18	20.85	20.69	21.36	21.84	21.76	22.43	22.27	22.94	23.42
	8H	20.46	21.05	20.96	21.54	22.10	22.34	22.93	22.84	23.42	23.98