

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: P1586322

Luminaire Tested: 22CZSP-31-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586322
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-31-L930-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 3000 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

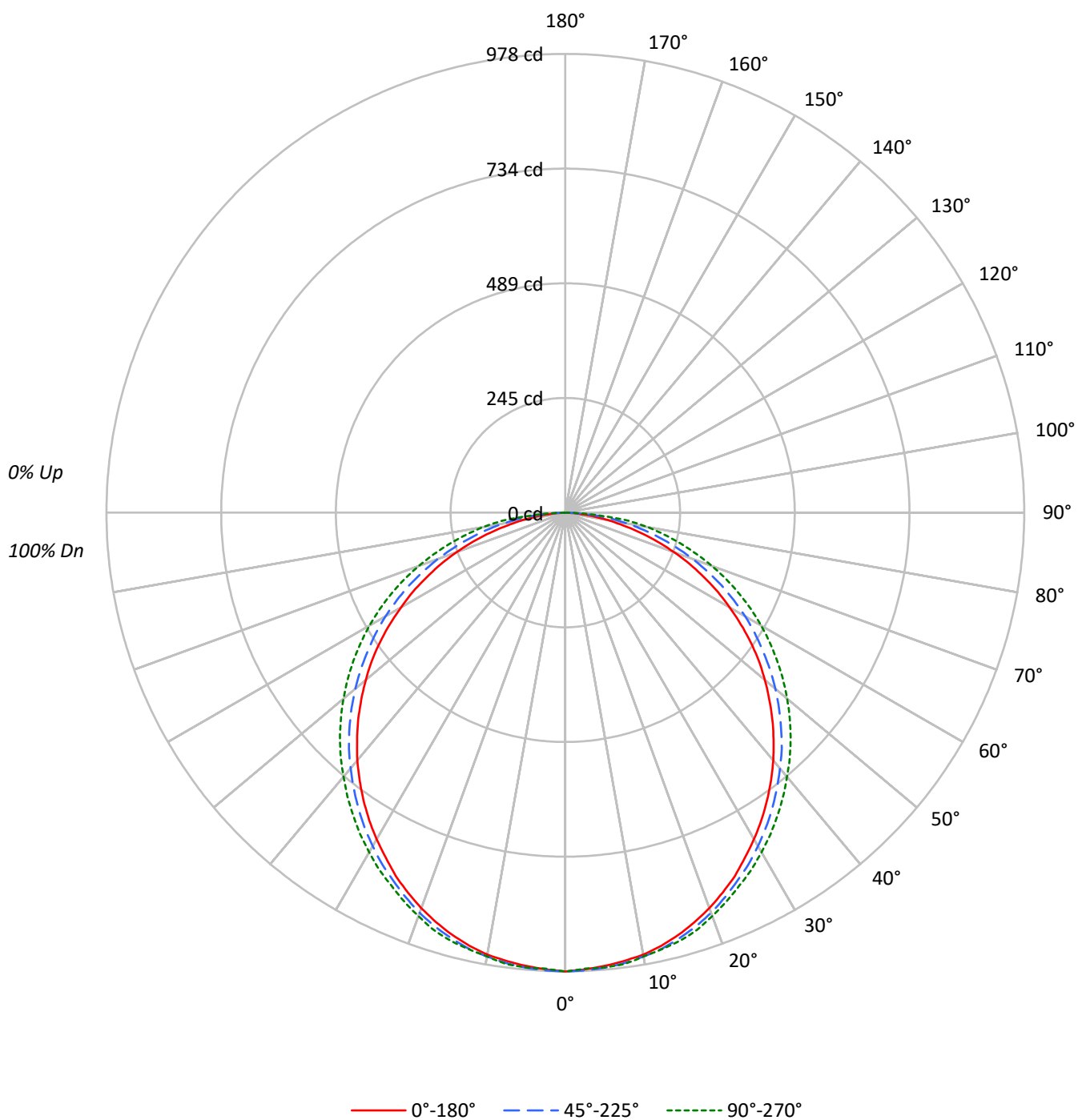
Lumens per Lamp: N/A
Luminaire Lumens: 2856.0 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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	69
3	89	79	70	64	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°	3063	3063	3063
5°	3049	3061	3059
10°	3043	3057	3055
15°	3021	3045	3063
20°	2990	3026	3051
25°	2953	2994	3031
30°	2907	2969	3023
35°	2865	2939	3014
40°	2818	2910	3005
45°	2764	2881	3008
50°	2705	2845	3007
55°	2634	2806	3011
60°	2535	2775	3018
65°	2419	2721	3027
70°	2255	2645	3041
75°	2010	2539	3071
80°	1661	2418	3221
85°	1081	2184	2813

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3323 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	3.2
10°-20°	264.9	9.3
20°-30°	399.5	14.0
30°-40°	481.2	16.8
40°-50°	502.6	17.6
50°-60°	461.6	16.2
60°-70°	363.5	12.7
70°-80°	223.0	7.8
80°-90°	67.1	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°	757.0	26.5
0°-40°	1238.2	43.4
0°-60°	2202.3	77.1
0°-90°	2856.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2856.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	978	978	978	978	978	
5°	970	971	974	977	973	92
15°	932	934	939	945	945	263
25°	855	857	867	877	877	393
35°	750	753	769	785	788	469
45°	624	631	650	673	679	481
55°	482	491	514	543	552	431
65°	326	338	367	398	409	323
75°	166	179	210	243	254	176
85°	30	41	61	77	78	39
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	978.3	978.3	978.3	978.3	978.3
2.5°	974.5	976.4	977.0	977.6	973.2
5°	970.1	971.4	973.9	977.0	973.2
7.5°	963.8	965.1	968.2	972.6	970.7
10°	956.9	957.6	961.3	964.5	960.7
12.5°	945.7	947.5	951.9	954.4	953.2
15°	931.9	933.8	939.4	945.0	945.0
17.5°	915.6	918.1	925.0	932.5	933.1
20°	897.4	899.3	908.1	915.6	915.6
22.5°	876.7	879.2	888.0	896.2	897.4
25°	854.8	856.7	866.7	877.4	877.4
27.5°	829.1	832.9	845.4	856.1	858.6
30°	804.0	807.2	821.0	834.1	836.0
32.5°	777.7	781.5	795.9	810.3	813.4
35°	749.5	753.3	768.9	784.6	788.4
37.5°	720.1	724.4	740.7	758.9	762.7
40°	689.4	694.4	711.9	731.3	735.1
42.5°	656.8	663.7	682.5	702.5	708.2
45°	624.2	631.1	650.5	673.1	679.3
47.5°	589.7	597.9	617.9	641.7	648.6
50°	555.2	563.4	584.1	609.8	617.3
52.5°	520.1	528.3	549.6	576.6	584.7
55°	482.5	491.3	513.9	542.7	551.5
57.5°	443.7	455.0	478.8	508.2	517.0
60°	404.8	416.1	443.1	471.9	481.9
62.5°	366.6	377.3	404.8	435.5	446.2
65°	326.5	337.8	367.2	397.9	408.6
67.5°	287.0	298.3	327.8	359.7	371.0
70°	246.3	258.8	288.9	320.9	332.1
72.5°	205.6	218.7	249.4	282.0	292.7
75°	166.1	179.2	209.9	243.2	253.8
77.5°	127.2	141.6	171.7	205.6	215.6
80°	92.1	105.9	134.1	167.3	178.6
82.5°	58.9	70.8	99.0	130.4	138.5
85°	30.1	41.4	60.8	77.1	78.3
87.5°	9.4	13.2	20.1	30.1	30.7
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	15.37	17.03	15.73	17.34	17.66	16.20	17.86	16.56	18.17	18.49
	3H	17.12	18.63	17.50	18.96	19.32	18.31	19.82	18.69	20.15	20.51
	4H	17.74	19.16	18.14	19.51	19.89	19.20	20.63	19.60	20.97	21.35
	6H	18.15	19.47	18.56	19.84	20.23	19.98	21.30	20.39	21.67	22.06
	8H	18.26	19.52	18.68	19.91	20.31	20.30	21.57	20.73	21.96	22.35
	12H	18.31	19.52	18.74	19.90	20.33	20.52	21.73	20.94	22.11	22.54
4H	2H	16.14	17.56	16.54	17.91	18.28	16.79	18.21	17.18	18.55	18.93
	3H	18.12	19.31	18.53	19.71	20.11	19.14	20.34	19.55	20.73	21.13
	4H	18.85	19.94	19.28	20.35	20.79	20.19	21.28	20.62	21.69	22.13
	6H	19.38	20.33	19.83	20.77	21.23	21.15	22.10	21.60	22.54	22.99
	8H	19.53	20.42	19.99	20.86	21.33	21.54	22.43	22.00	22.88	23.34
	12H	19.61	20.42	20.09	20.89	21.36	21.82	22.62	22.30	23.10	23.57
8H	4H	19.31	20.20	19.77	20.65	21.11	20.48	21.37	20.94	21.82	22.28
	6H	19.97	20.72	20.46	21.20	21.68	21.59	22.34	22.09	22.82	23.30
	8H	20.18	20.85	20.69	21.36	21.84	22.11	22.77	22.61	23.28	23.76
	12H	20.32	20.91	20.83	21.40	21.96	22.49	23.08	23.00	23.57	24.13
12H	4H	19.40	20.21	19.88	20.68	21.15	20.51	21.31	20.99	21.78	22.25
	6H	20.10	20.77	20.61	21.28	21.76	21.64	22.31	22.15	22.82	23.30
	8H	20.38	20.98	20.89	21.46	22.02	22.22	22.81	22.72	23.30	23.86