

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: P1587611

Luminaire Tested: 22CZSP-SB-31-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-31-L950
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 3000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

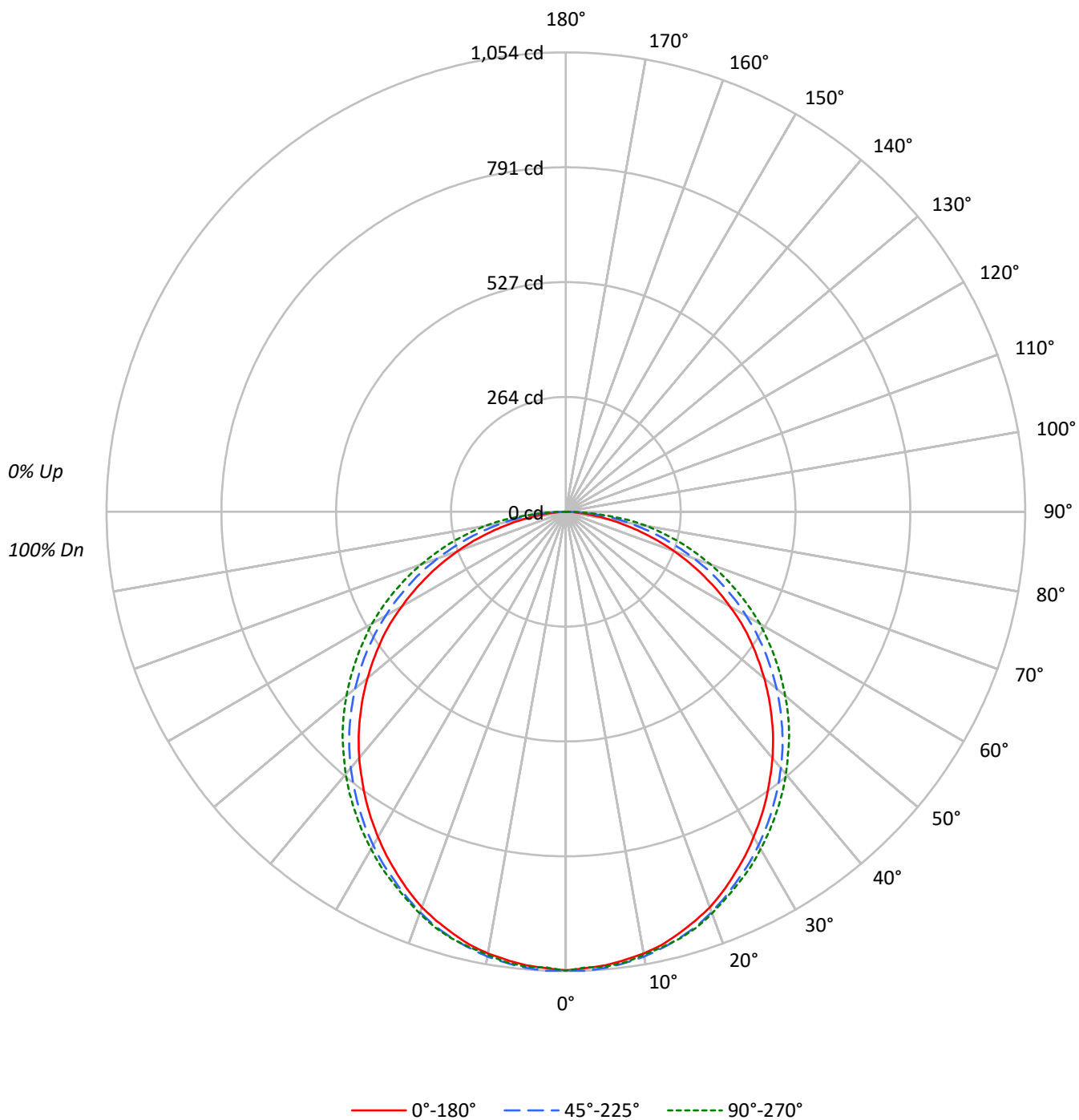
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3071.0 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
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
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	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°	3295	3295	3295
5°	3283	3302	3294
10°	3272	3294	3282
15°	3247	3281	3285
20°	3219	3258	3268
25°	3167	3223	3245
30°	3116	3196	3231
35°	3066	3166	3220
40°	3015	3138	3212
45°	2959	3109	3209
50°	2894	3074	3201
55°	2828	3041	3201
60°	2723	2996	3220
65°	2595	2938	3222
70°	2422	2856	3231
75°	2155	2752	3287
80°	1769	2636	3410
85°	1168	2475	3083

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3493 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.5	3.2
10°-20°	284.9	9.3
20°-30°	429.5	14.0
30°-40°	517.2	16.8
40°-50°	540.3	17.6
50°-60°	496.4	16.2
60°-70°	390.9	12.7
70°-80°	239.6	7.8
80°-90°	72.6	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°	813.9	26.5
0°-40°	1331.1	43.3
0°-60°	2367.8	77.1
0°-90°	3071.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3071.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1052	1052	1052	1052	1052	
5°	1044	1046	1050	1049	1048	99
15°	1002	1006	1012	1016	1013	283
25°	916	922	933	942	939	423
35°	802	812	828	843	842	502
45°	668	682	702	722	725	515
55°	518	533	557	581	586	462
65°	350	368	396	423	435	346
75°	178	199	228	255	272	189
85°	32	48	69	77	86	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1052.3	1052.3	1052.3	1052.3	1052.3
2.5°	1048.4	1051.0	1054.3	1049.1	1046.5
5°	1044.5	1046.5	1050.4	1049.1	1047.8
7.5°	1037.4	1038.7	1043.9	1043.9	1042.6
10°	1028.9	1031.5	1036.1	1035.4	1032.2
12.5°	1017.9	1019.8	1025.0	1025.0	1023.1
15°	1001.6	1005.5	1012.0	1015.9	1013.3
17.5°	984.7	988.6	997.1	1001.0	999.7
20°	965.9	969.1	977.6	983.4	980.8
22.5°	942.5	946.4	956.1	962.6	960.0
25°	916.5	922.3	932.7	942.5	939.2
27.5°	890.5	897.0	910.0	919.7	918.4
30°	861.9	870.3	884.0	896.3	893.7
32.5°	832.6	842.4	856.7	869.7	869.0
35°	802.1	812.5	828.1	843.0	842.4
37.5°	769.6	781.9	798.2	814.4	815.1
40°	737.7	749.4	767.6	785.2	785.8
42.5°	703.9	716.3	735.8	754.0	754.6
45°	668.2	682.5	702.0	721.5	724.7
47.5°	631.8	646.7	666.9	687.7	691.6
50°	594.1	609.7	631.1	653.2	657.1
52.5°	555.7	572.0	594.1	616.2	622.0
55°	518.0	533.0	557.0	581.1	586.3
57.5°	478.4	492.0	518.0	543.4	549.9
60°	434.8	451.7	478.4	503.7	514.1
62.5°	392.6	410.8	438.1	463.4	475.1
65°	350.3	368.5	396.5	423.1	434.8
67.5°	307.4	326.3	356.2	381.5	394.5
70°	264.5	283.4	312.0	339.3	352.9
72.5°	221.6	241.8	269.7	297.7	311.3
75°	178.1	198.9	227.5	254.8	271.7
77.5°	137.1	157.3	185.9	213.8	228.1
80°	98.1	118.3	146.2	174.2	189.1
82.5°	62.4	81.2	108.5	131.9	145.6
85°	32.5	48.1	68.9	76.7	85.8
87.5°	9.7	18.8	26.6	29.9	37.0
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	15.66	17.32	16.02	17.63	17.95	16.40	18.07	16.77	18.38	18.69
	3H	17.42	18.93	17.80	19.25	19.61	18.50	20.01	18.87	20.33	20.69
	4H	18.04	19.47	18.44	19.81	20.19	19.38	20.81	19.78	21.15	21.53
	6H	18.46	19.78	18.87	20.14	20.53	20.15	21.47	20.56	21.83	22.22
	8H	18.56	19.82	18.99	20.21	20.61	20.46	21.72	20.88	22.11	22.51
	12H	18.61	19.82	19.04	20.21	20.63	20.67	21.88	21.10	22.27	22.69
4H	2H	16.43	17.85	16.82	18.20	18.57	17.01	18.43	17.40	18.78	19.15
	3H	18.42	19.62	18.83	20.01	20.41	19.33	20.53	19.74	20.93	21.33
	4H	19.17	20.26	19.60	20.67	21.11	20.37	21.46	20.80	21.87	22.30
	6H	19.71	20.66	20.16	21.10	21.56	21.30	22.25	21.75	22.69	23.15
	8H	19.86	20.75	20.32	21.19	21.66	21.68	22.58	22.14	23.02	23.48
	12H	19.94	20.75	20.42	21.22	21.69	21.96	22.76	22.44	23.24	23.71
8H	4H	19.63	20.52	20.08	20.96	21.42	20.67	21.56	21.13	22.00	22.47
	6H	20.30	21.05	20.80	21.53	22.01	21.75	22.50	22.24	22.98	23.46
	8H	20.52	21.19	21.03	21.70	22.18	22.24	22.91	22.75	23.41	23.90
	12H	20.67	21.26	21.18	21.75	22.31	22.62	23.21	23.12	23.70	24.26
12H	4H	19.71	20.51	20.19	20.99	21.46	20.70	21.50	21.18	21.97	22.44
	6H	20.43	21.10	20.94	21.61	22.09	21.81	22.48	22.31	22.98	23.46
	8H	20.72	21.31	21.23	21.80	22.36	22.36	22.95	22.86	23.44	24.00