

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: P1587610

Luminaire Tested: 22CZSP-SB-31-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-31-L950-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 3000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

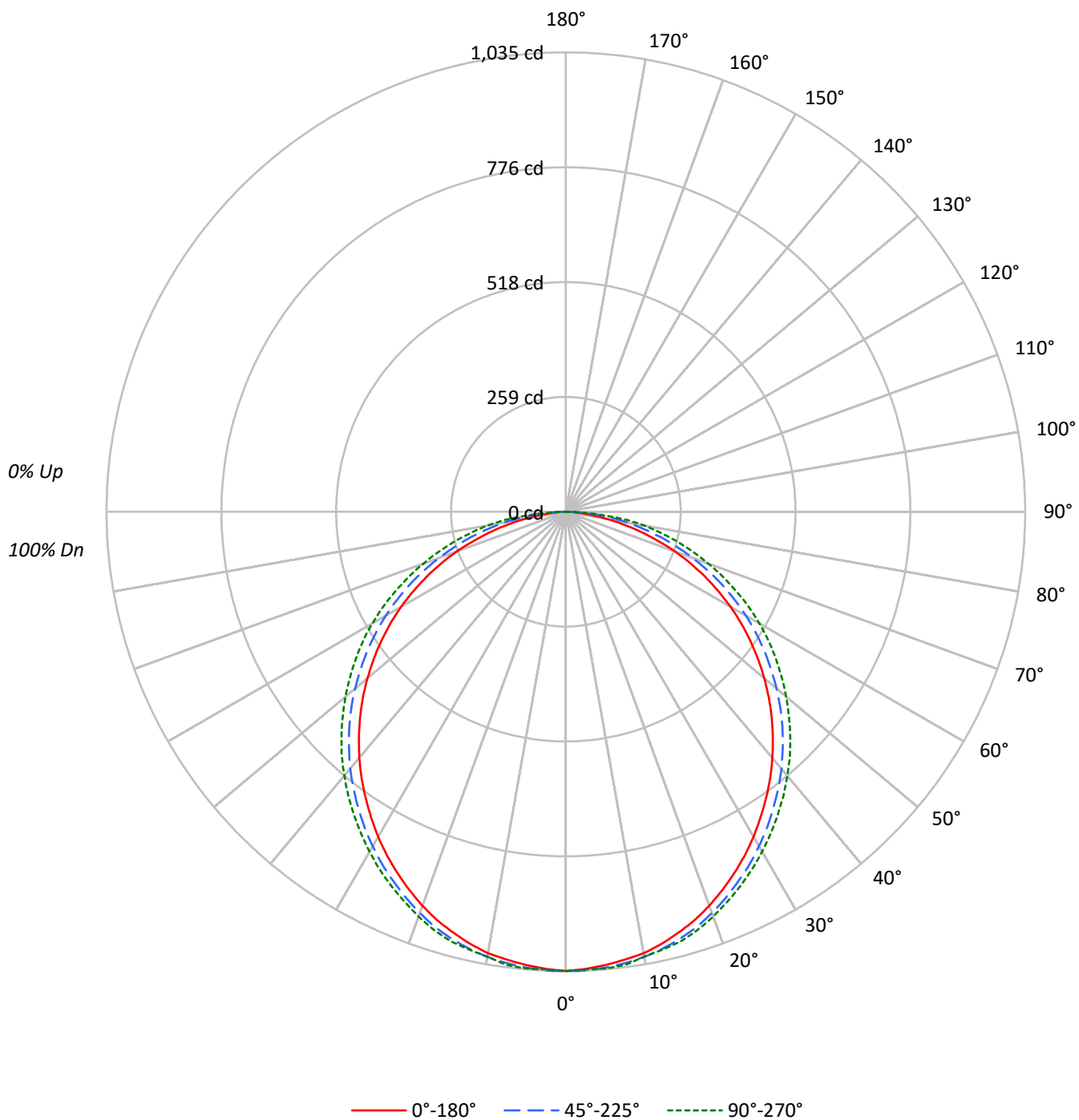
Lumens per Lamp: N/A
Luminaire Lumens: 3010.0 lumens
Efficiency: N/A
Efficacy: 143.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
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	94	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	66	61	69	64	60	58		
4	82	70	61	54	79	68	60	53	66	58	53	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	45	39	50	44	39	37		
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33		
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29		
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26		
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3240	3240	3240
5°	3222	3240	3246
10°	3212	3238	3237
15°	3182	3228	3247
20°	3148	3206	3234
25°	3103	3174	3215
30°	3058	3147	3198
35°	3007	3116	3183
40°	2959	3089	3174
45°	2905	3057	3166
50°	2842	3019	3158
55°	2772	2980	3153
60°	2685	2936	3155
65°	2562	2874	3138
70°	2395	2786	3130
75°	2123	2680	3142
80°	1728	2546	3235
85°	1117	2350	2792

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3277 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	3.3
10°-20°	280.4	9.3
20°-30°	422.8	14.0
30°-40°	508.7	16.9
40°-50°	530.6	17.6
50°-60°	486.4	16.2
60°-70°	381.9	12.7
70°-80°	232.5	7.7
80°-90°	68.8	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°	801.1	26.6
0°-40°	1309.8	43.5
0°-60°	2326.9	77.3
0°-90°	3010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3010.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1035	1035	1035	1035	1035	
5°	1025	1032	1031	1030	1033	97
15°	982	991	996	997	1002	277
25°	898	910	919	925	930	414
35°	787	799	815	827	833	492
45°	656	670	690	706	715	506
55°	508	521	546	568	578	454
65°	346	359	388	414	424	342
75°	176	192	222	248	260	186
85°	31	44	65	73	78	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1034.7	1034.7	1034.7	1034.7	1034.7
2.5°	1030.8	1036.0	1034.7	1030.2	1032.1
5°	1025.0	1031.5	1030.8	1029.6	1032.8
7.5°	1017.9	1025.0	1025.7	1025.7	1029.6
10°	1010.1	1017.3	1018.5	1016.6	1017.9
12.5°	997.2	1005.6	1008.2	1008.2	1010.1
15°	981.6	991.4	995.9	997.2	1001.7
17.5°	964.8	975.2	981.0	984.2	988.1
20°	944.7	955.7	962.2	966.1	970.6
22.5°	922.1	934.4	941.5	945.4	950.6
25°	898.1	910.4	918.8	924.7	930.5
27.5°	872.9	884.5	896.2	903.3	908.5
30°	845.7	858.0	870.3	879.3	884.5
32.5°	816.5	829.5	843.7	853.4	859.3
35°	786.7	799.0	815.2	826.9	832.7
37.5°	756.3	769.3	786.1	798.4	805.5
40°	723.9	737.5	755.7	769.3	776.4
42.5°	690.3	703.2	723.3	738.8	747.2
45°	655.9	669.5	690.3	706.4	714.9
47.5°	620.3	633.3	655.9	674.7	681.8
50°	583.4	595.7	619.7	639.7	648.2
52.5°	545.9	558.8	582.8	604.1	613.2
55°	507.7	520.6	545.9	567.9	577.6
57.5°	468.8	481.8	507.7	530.3	542.0
60°	428.7	441.6	468.8	492.1	503.8
62.5°	387.2	400.8	428.7	452.6	464.9
65°	345.8	358.7	387.9	413.8	423.5
67.5°	304.3	317.3	345.8	371.7	383.3
70°	261.6	276.5	304.3	331.5	341.9
72.5°	216.9	233.8	261.6	290.1	300.4
75°	175.5	191.7	221.5	248.0	259.7
77.5°	134.7	152.2	180.0	207.2	218.9
80°	95.8	112.7	141.2	167.1	179.4
82.5°	60.9	75.8	104.3	127.6	136.6
85°	31.1	44.0	65.4	73.2	77.7
87.5°	9.1	15.5	23.3	29.1	32.4
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	15.58	17.24	15.95	17.56	17.87	16.32	17.98	16.68	18.29	18.61
	3H	17.35	18.86	17.73	19.18	19.54	18.40	19.90	18.77	20.23	20.59
	4H	17.97	19.39	18.37	19.74	20.11	19.26	20.68	19.66	21.03	21.41
	6H	18.38	19.70	18.79	20.06	20.45	20.01	21.33	20.42	21.69	22.08
	8H	18.48	19.74	18.91	20.13	20.53	20.30	21.56	20.73	21.95	22.35
	12H	18.53	19.74	18.96	20.12	20.55	20.50	21.70	20.93	22.09	22.51
4H	2H	16.35	17.77	16.75	18.12	18.49	16.92	18.34	17.32	18.69	19.07
	3H	18.34	19.54	18.75	19.94	20.34	19.24	20.43	19.65	20.83	21.23
	4H	19.09	20.17	19.52	20.58	21.02	20.26	21.34	20.69	21.75	22.19
	6H	19.62	20.56	20.07	21.00	21.46	21.16	22.11	21.61	22.55	23.00
	8H	19.76	20.65	20.22	21.09	21.55	21.53	22.42	21.99	22.86	23.32
	12H	19.84	20.64	20.32	21.11	21.58	21.78	22.58	22.26	23.06	23.53
8H	4H	19.53	20.42	19.99	20.86	21.33	20.55	21.44	21.01	21.88	22.35
	6H	20.20	20.94	20.69	21.42	21.90	21.61	22.35	22.10	22.84	23.31
	8H	20.40	21.07	20.91	21.58	22.06	22.08	22.75	22.59	23.25	23.74
	12H	20.54	21.13	21.05	21.62	22.18	22.43	23.02	22.94	23.51	24.07
12H	4H	19.61	20.41	20.09	20.89	21.36	20.58	21.38	21.06	21.85	22.32
	6H	20.32	20.99	20.83	21.49	21.98	21.66	22.33	22.17	22.83	23.32
	8H	20.60	21.19	21.10	21.68	22.23	22.20	22.79	22.70	23.28	23.84