

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: P1587604

Luminaire Tested: 22CZSP-SB-31-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587604
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-L935-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 3000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

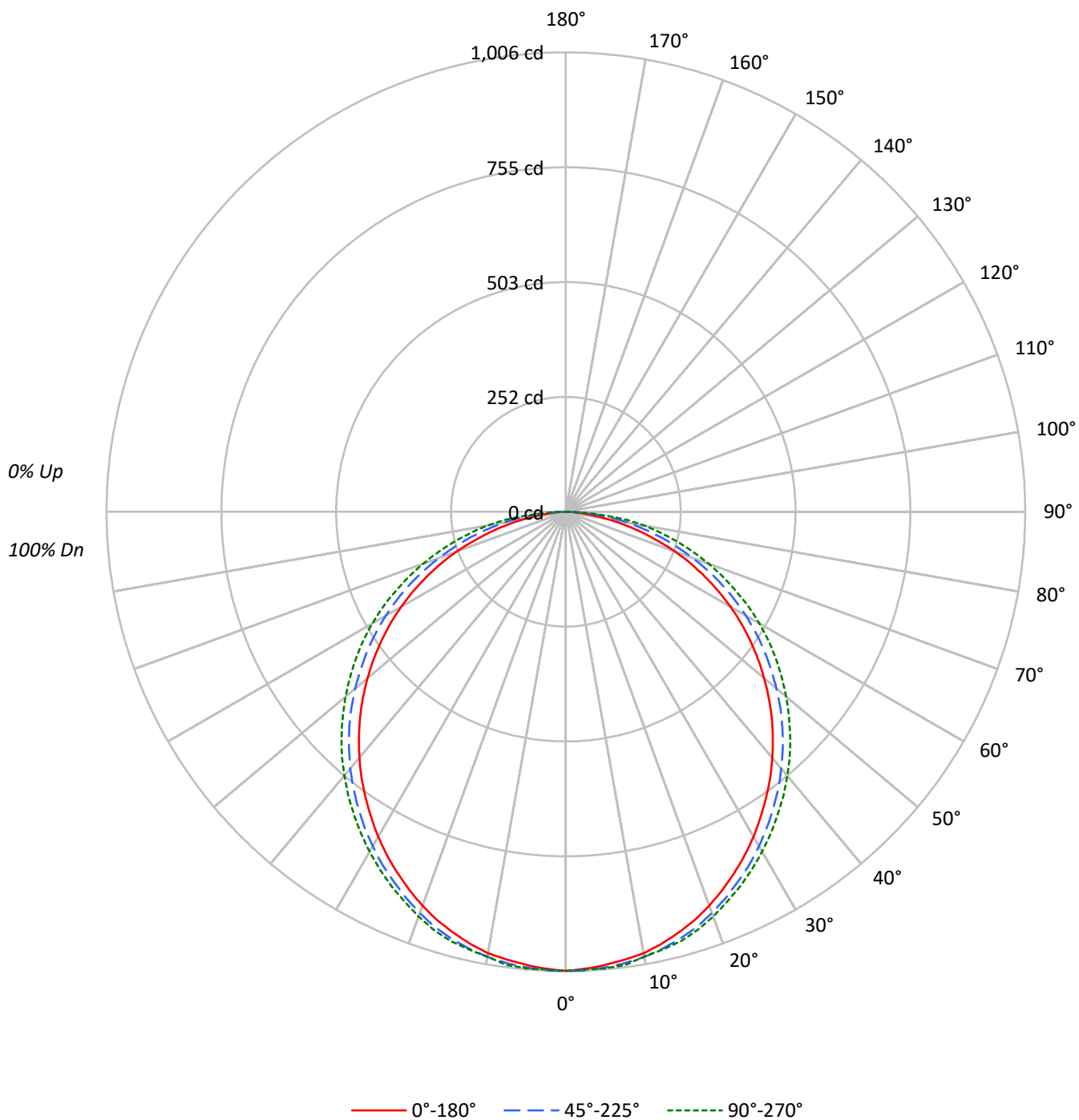
Lumens per Lamp: N/A
Luminaire Lumens: 2925.0 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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			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	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°	3149	3149	3149
5°	3131	3149	3155
10°	3121	3147	3145
15°	3092	3137	3156
20°	3059	3116	3143
25°	3015	3085	3124
30°	2971	3058	3108
35°	2922	3028	3093
40°	2876	3002	3084
45°	2823	2971	3076
50°	2762	2934	3069
55°	2693	2896	3064
60°	2609	2853	3066
65°	2490	2793	3049
70°	2327	2707	3041
75°	2063	2604	3052
80°	1679	2474	3143
85°	1085	2285	2713

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3186 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	3.3
10°-20°	272.5	9.3
20°-30°	410.8	14.0
30°-40°	494.3	16.9
40°-50°	515.7	17.6
50°-60°	472.6	16.2
60°-70°	371.1	12.7
70°-80°	225.9	7.7
80°-90°	66.8	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°	778.5	26.6
0°-40°	1272.8	43.5
0°-60°	2261.1	77.3
0°-90°	2925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2925.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	996	1002	1002	1000	1004	95
15°	954	963	968	969	973	269
25°	873	885	893	898	904	402
35°	764	776	792	804	809	478
45°	637	651	671	686	695	492
55°	493	506	530	552	561	441
65°	336	349	377	402	412	332
75°	170	186	215	241	252	181
85°	30	43	64	71	76	39
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1005.5	1005.5	1005.5	1005.5	1005.5
2.5°	1001.7	1006.8	1005.5	1001.1	1003.0
5°	996.1	1002.4	1001.7	1000.5	1003.6
7.5°	989.2	996.1	996.7	996.7	1000.5
10°	981.6	988.5	989.8	987.9	989.2
12.5°	969.0	977.2	979.7	979.7	981.6
15°	953.9	963.4	967.8	969.0	973.4
17.5°	937.6	947.6	953.3	956.4	960.2
20°	918.1	928.7	935.0	938.8	943.2
22.5°	896.0	908.0	914.9	918.7	923.7
25°	872.7	884.7	892.9	898.5	904.2
27.5°	848.2	859.5	870.9	877.8	882.8
30°	821.8	833.7	845.7	854.5	859.5
32.5°	793.5	806.0	819.9	829.3	835.0
35°	764.5	776.5	792.2	803.5	809.2
37.5°	734.9	747.5	763.9	775.8	782.8
40°	703.5	716.7	734.3	747.5	754.4
42.5°	670.8	683.3	702.9	718.0	726.1
45°	637.4	650.6	670.8	686.5	694.7
47.5°	602.8	615.4	637.4	655.7	662.6
50°	566.9	578.9	602.2	621.7	629.9
52.5°	530.4	543.0	566.3	587.1	595.9
55°	493.3	505.9	530.4	551.8	561.3
57.5°	455.6	468.1	493.3	515.3	526.7
60°	416.6	429.1	455.6	478.2	489.5
62.5°	376.3	389.5	416.6	439.8	451.8
65°	336.0	348.6	376.9	402.1	411.5
67.5°	295.7	308.3	336.0	361.2	372.5
70°	254.2	268.7	295.7	322.2	332.2
72.5°	210.8	227.2	254.2	281.9	292.0
75°	170.5	186.3	215.2	241.0	252.3
77.5°	130.9	147.9	174.9	201.4	212.7
80°	93.1	109.5	137.2	162.3	174.3
82.5°	59.1	73.6	101.3	124.0	132.8
85°	30.2	42.8	63.6	71.1	75.5
87.5°	8.8	15.1	22.7	28.3	31.5
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	15.48	17.14	15.85	17.46	17.77	16.22	17.88	16.58	18.19	18.51
	3H	17.25	18.76	17.63	19.08	19.44	18.30	19.80	18.68	20.13	20.49
	4H	17.87	19.29	18.27	19.64	20.01	19.16	20.58	19.56	20.93	21.31
	6H	18.28	19.60	18.69	19.96	20.35	19.91	21.23	20.32	21.59	21.98
	8H	18.38	19.64	18.81	20.03	20.43	20.20	21.46	20.63	21.85	22.25
	12H	18.43	19.64	18.86	20.02	20.45	20.40	21.61	20.83	21.99	22.42
4H	2H	16.25	17.67	16.65	18.02	18.39	16.82	18.24	17.22	18.59	18.97
	3H	18.24	19.44	18.65	19.84	20.23	19.14	20.33	19.55	20.73	21.13
	4H	18.99	20.07	19.42	20.48	20.92	20.16	21.24	20.59	21.65	22.09
	6H	19.52	20.46	19.97	20.90	21.36	21.06	22.01	21.51	22.45	22.90
	8H	19.66	20.55	20.12	20.99	21.45	21.43	22.32	21.89	22.76	23.22
	12H	19.74	20.54	20.22	21.01	21.48	21.68	22.48	22.16	22.96	23.43
8H	4H	19.43	20.32	19.89	20.76	21.23	20.45	21.34	20.91	21.78	22.25
	6H	20.10	20.84	20.59	21.32	21.80	21.51	22.25	22.00	22.74	23.21
	8H	20.30	20.97	20.81	21.48	21.96	21.98	22.65	22.49	23.15	23.64
	12H	20.44	21.03	20.95	21.52	22.08	22.33	22.92	22.84	23.41	23.97
12H	4H	19.51	20.31	19.99	20.79	21.26	20.48	21.28	20.96	21.75	22.22
	6H	20.22	20.89	20.73	21.39	21.88	21.56	22.23	22.07	22.73	23.22
	8H	20.50	21.09	21.00	21.58	22.13	22.10	22.69	22.60	23.18	23.74