

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: P1587602

Luminaire Tested: 22CZSP-SB-31-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587602
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-L930-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 3000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

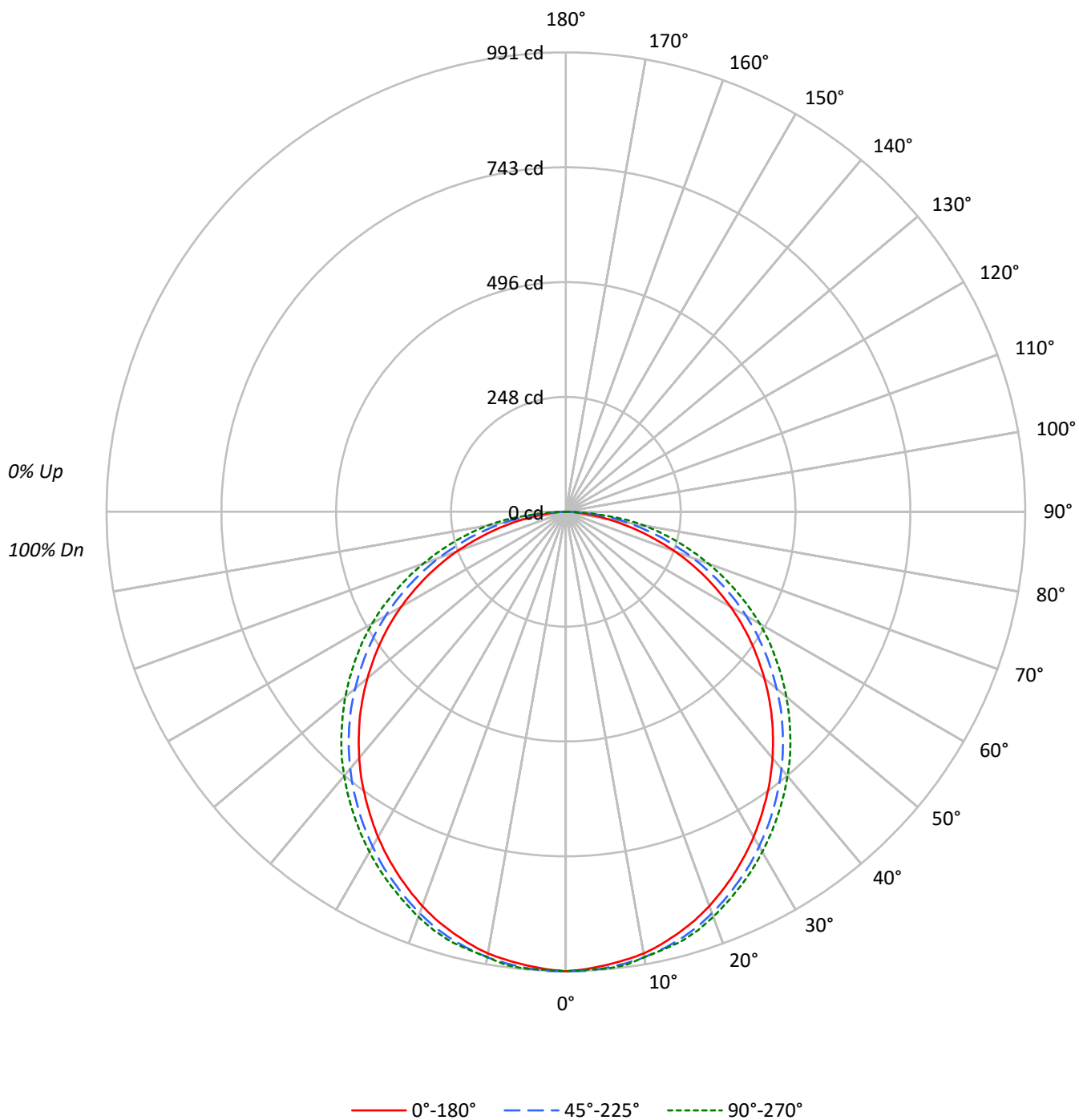
Lumens per Lamp: N/A
Luminaire Lumens: 2884.0 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	3104	3104	3104
5°	3087	3105	3111
10°	3077	3103	3101
15°	3049	3093	3111
20°	3016	3072	3099
25°	2973	3042	3080
30°	2930	3015	3064
35°	2882	2986	3050
40°	2835	2959	3041
45°	2783	2929	3033
50°	2723	2892	3025
55°	2655	2855	3021
60°	2572	2813	3023
65°	2455	2753	3006
70°	2294	2670	2999
75°	2034	2567	3010
80°	1655	2438	3100
85°	1071	2253	2673

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3140 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.8	3.3
10°-20°	268.7	9.3
20°-30°	405.1	14.0
30°-40°	487.4	16.9
40°-50°	508.4	17.6
50°-60°	466.0	16.2
60°-70°	365.9	12.7
70°-80°	222.7	7.7
80°-90°	65.9	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°	767.6	26.6
0°-40°	1255.0	43.5
0°-60°	2229.5	77.3
0°-90°	2884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2884.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	991	991	991	991	991	
5°	982	988	988	986	990	93
15°	940	950	954	955	960	265
25°	860	872	880	886	892	397
35°	754	766	781	792	798	472
45°	628	642	661	677	685	485
55°	486	499	523	544	553	435
65°	331	344	372	396	406	328
75°	168	184	212	238	249	178
85°	30	42	63	70	74	39
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	991.4	991.4	991.4	991.4	991.4
2.5°	987.7	992.7	991.4	987.1	988.9
5°	982.1	988.3	987.7	986.5	989.6
7.5°	975.3	982.1	982.7	982.7	986.5
10°	967.8	974.7	975.9	974.0	975.3
12.5°	955.4	963.5	966.0	966.0	967.8
15°	940.5	949.9	954.2	955.4	959.8
17.5°	924.4	934.3	939.9	943.0	946.7
20°	905.2	915.7	921.9	925.7	930.0
22.5°	883.5	895.3	902.1	905.8	910.8
25°	860.5	872.3	880.4	885.9	891.5
27.5°	836.3	847.5	858.7	865.5	870.4
30°	810.3	822.0	833.8	842.5	847.5
32.5°	782.3	794.7	808.4	817.7	823.3
35°	753.8	765.6	781.1	792.3	797.9
37.5°	724.6	737.1	753.2	765.0	771.8
40°	693.6	706.6	724.0	737.1	743.9
42.5°	661.4	673.8	693.0	707.9	716.0
45°	628.5	641.5	661.4	676.9	684.9
47.5°	594.4	606.8	628.5	646.5	653.3
50°	559.0	570.8	593.7	613.0	621.0
52.5°	523.0	535.4	558.4	578.8	587.5
55°	486.4	498.8	523.0	544.1	553.4
57.5°	449.2	461.6	486.4	508.1	519.3
60°	410.7	423.1	449.2	471.5	482.7
62.5°	371.0	384.0	410.7	433.7	445.5
65°	331.3	343.7	371.6	396.4	405.7
67.5°	291.6	304.0	331.3	356.1	367.3
70°	250.6	264.9	291.6	317.7	327.6
72.5°	207.8	224.0	250.6	277.9	287.9
75°	168.1	183.6	212.2	237.6	248.8
77.5°	129.0	145.8	172.5	198.5	209.7
80°	91.8	108.0	135.2	160.1	171.9
82.5°	58.3	72.6	99.9	122.2	130.9
85°	29.8	42.2	62.7	70.1	74.4
87.5°	8.7	14.9	22.3	27.9	31.0
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	15.44	17.10	15.80	17.41	17.72	16.17	17.83	16.54	18.14	18.46
	3H	17.20	18.71	17.58	19.03	19.39	18.25	19.75	18.63	20.08	20.44
	4H	17.82	19.24	18.22	19.59	19.96	19.12	20.53	19.51	20.88	21.26
	6H	18.23	19.55	18.64	19.91	20.30	19.86	21.18	20.27	21.54	21.93
	8H	18.33	19.59	18.76	19.98	20.38	20.15	21.41	20.58	21.80	22.20
	12H	18.38	19.59	18.81	19.97	20.40	20.35	21.56	20.78	21.94	22.37
4H	2H	16.20	17.62	16.60	17.97	18.35	16.77	18.19	17.17	18.54	18.92
	3H	18.19	19.39	18.60	19.79	20.19	19.09	20.28	19.50	20.68	21.08
	4H	18.94	20.02	19.37	20.43	20.87	20.11	21.19	20.54	21.60	22.04
	6H	19.47	20.42	19.92	20.85	21.31	21.01	21.96	21.46	22.40	22.86
	8H	19.61	20.50	20.07	20.94	21.40	21.38	22.27	21.84	22.71	23.17
	12H	19.69	20.49	20.17	20.96	21.43	21.63	22.43	22.11	22.91	23.38
8H	4H	19.38	20.27	19.84	20.71	21.18	20.40	21.29	20.86	21.73	22.20
	6H	20.05	20.79	20.54	21.27	21.75	21.46	22.20	21.95	22.69	23.16
	8H	20.26	20.92	20.76	21.43	21.91	21.93	22.60	22.44	23.10	23.59
	12H	20.39	20.98	20.90	21.47	22.03	22.29	22.87	22.79	23.36	23.92
12H	4H	19.46	20.26	19.94	20.74	21.21	20.43	21.23	20.91	21.71	22.17
	6H	20.17	20.84	20.68	21.34	21.83	21.51	22.18	22.02	22.68	23.17
	8H	20.45	21.04	20.95	21.53	22.09	22.05	22.64	22.56	23.13	23.69