

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: P1587601

Luminaire Tested: 22CZSP-SB-31-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587601
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-L850
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 3000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

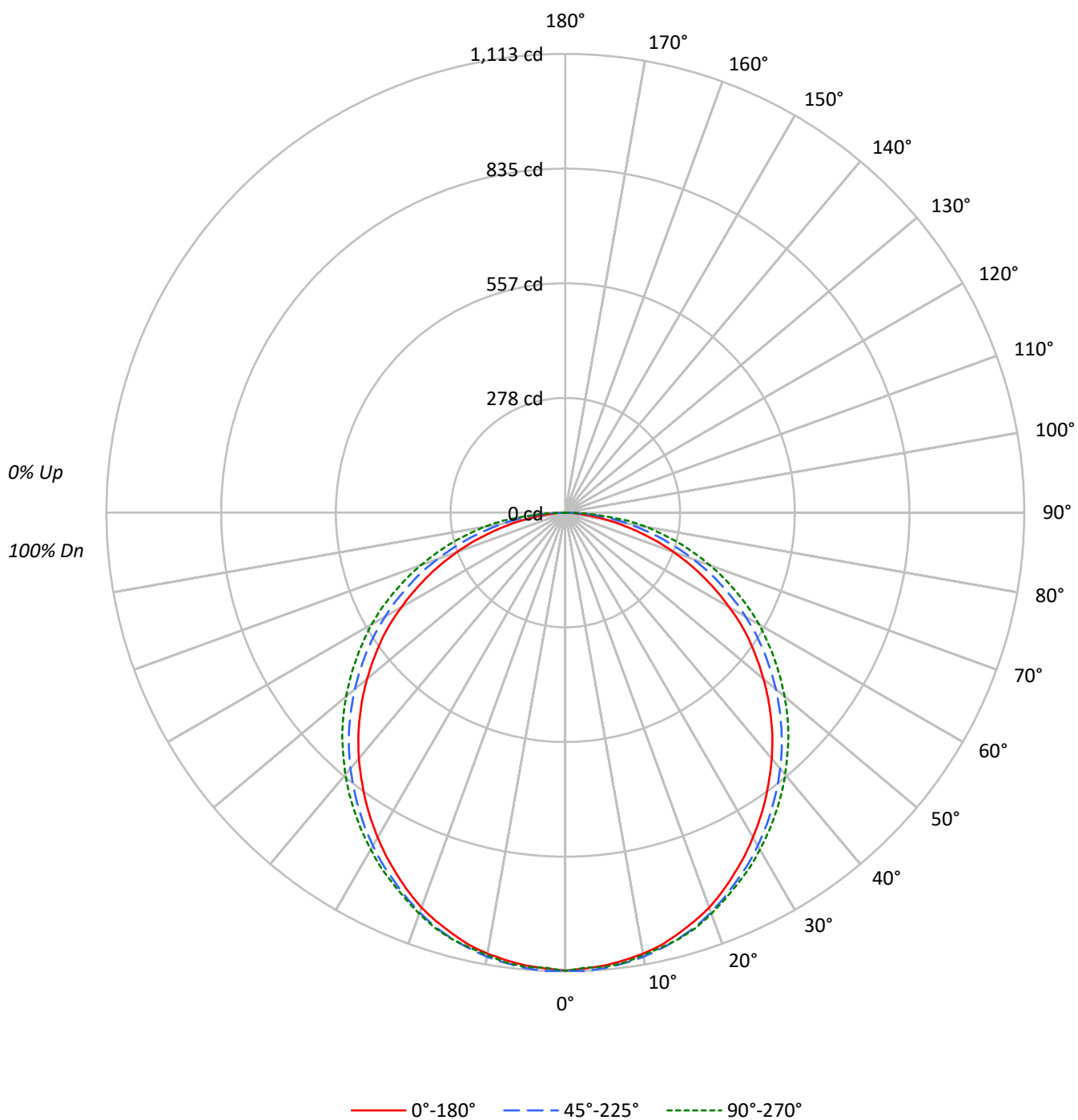
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3243.0 lumens
Efficiency: N/A
Efficacy: 154.4 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			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	68
3	89	79	70	63	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°	3480	3480	3480
5°	3467	3487	3478
10°	3455	3479	3466
15°	3429	3464	3469
20°	3399	3440	3451
25°	3344	3403	3427
30°	3291	3375	3413
35°	3238	3343	3400
40°	3184	3313	3392
45°	3125	3283	3389
50°	3056	3247	3380
55°	2986	3211	3380
60°	2876	3164	3400
65°	2741	3102	3402
70°	2558	3017	3412
75°	2276	2906	3471
80°	1868	2784	3601
85°	1232	2616	3255

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3687 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	3.2
10°-20°	300.9	9.3
20°-30°	453.5	14.0
30°-40°	546.1	16.8
40°-50°	570.6	17.6
50°-60°	524.2	16.2
60°-70°	412.8	12.7
70°-80°	253.1	7.8
80°-90°	76.7	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°	859.5	26.5
0°-40°	1405.6	43.3
0°-60°	2500.4	77.1
0°-90°	3243.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3243.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1111	1111	1111	1111	1111	
5°	1103	1105	1109	1108	1106	105
15°	1058	1062	1069	1073	1070	298
25°	968	974	985	995	992	446
35°	847	858	874	890	890	530
45°	706	721	741	762	765	544
55°	547	563	588	614	619	488
65°	370	389	419	447	459	366
75°	188	210	240	269	287	200
85°	34	51	73	81	91	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1111.2	1111.2	1111.2	1111.2	1111.2
2.5°	1107.1	1109.9	1113.3	1107.8	1105.1
5°	1103.0	1105.1	1109.2	1107.8	1106.4
7.5°	1095.5	1096.8	1102.3	1102.3	1101.0
10°	1086.5	1089.3	1094.1	1093.4	1090.0
12.5°	1074.9	1076.9	1082.4	1082.4	1080.4
15°	1057.7	1061.8	1068.7	1072.8	1070.1
17.5°	1039.9	1044.0	1052.9	1057.0	1055.6
20°	1020.0	1023.4	1032.3	1038.5	1035.7
22.5°	995.2	999.4	1009.7	1016.5	1013.8
25°	967.8	974.0	985.0	995.2	991.8
27.5°	940.3	947.2	960.9	971.2	969.9
30°	910.1	919.1	933.5	946.5	943.8
32.5°	879.3	889.5	904.6	918.4	917.7
35°	847.0	858.0	874.4	890.2	889.5
37.5°	812.7	825.7	842.9	860.0	860.7
40°	779.0	791.4	810.6	829.1	829.8
42.5°	743.3	756.4	777.0	796.2	796.9
45°	705.6	720.7	741.3	761.9	765.3
47.5°	667.2	682.9	704.2	726.2	730.3
50°	627.3	643.8	666.5	689.8	693.9
52.5°	586.9	604.0	627.3	650.7	656.9
55°	547.0	562.8	588.2	613.6	619.1
57.5°	505.2	519.6	547.0	573.8	580.7
60°	459.2	477.0	505.2	531.9	542.9
62.5°	414.6	433.8	462.6	489.4	501.7
65°	370.0	389.2	418.7	446.8	459.2
67.5°	324.7	344.6	376.1	402.9	416.6
70°	279.4	299.3	329.5	358.3	372.7
72.5°	234.1	255.3	284.8	314.4	328.8
75°	188.1	210.0	240.2	269.1	286.9
77.5°	144.8	166.1	196.3	225.8	240.9
80°	103.6	124.9	154.4	183.9	199.7
82.5°	65.9	85.8	114.6	139.3	153.7
85°	34.3	50.8	72.8	81.0	90.6
87.5°	10.3	19.9	28.1	31.6	39.1
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	15.85	17.51	16.21	17.82	18.14	16.59	18.25	16.96	18.57	18.88
	3H	17.61	19.12	17.99	19.44	19.80	18.69	20.20	19.06	20.52	20.88
	4H	18.23	19.66	18.63	20.00	20.38	19.57	20.99	19.97	21.34	21.72
	6H	18.65	19.97	19.06	20.33	20.72	20.34	21.66	20.75	22.02	22.41
	8H	18.75	20.01	19.18	20.40	20.80	20.65	21.91	21.07	22.30	22.70
	12H	18.80	20.01	19.23	20.40	20.82	20.86	22.07	21.29	22.45	22.88
4H	2H	16.62	18.04	17.01	18.39	18.76	17.20	18.62	17.59	18.97	19.34
	3H	18.61	19.81	19.02	20.20	20.60	19.52	20.72	19.93	21.12	21.52
	4H	19.36	20.45	19.79	20.86	21.30	20.56	21.65	20.99	22.06	22.49
	6H	19.90	20.85	20.35	21.29	21.75	21.49	22.44	21.94	22.88	23.33
	8H	20.05	20.94	20.51	21.38	21.84	21.87	22.77	22.33	23.21	23.67
	12H	20.13	20.94	20.61	21.41	21.88	22.15	22.95	22.63	23.43	23.89
8H	4H	19.82	20.71	20.27	21.15	21.61	20.86	21.75	21.32	22.19	22.66
	6H	20.49	21.24	20.98	21.72	22.20	21.94	22.69	22.43	23.17	23.65
	8H	20.71	21.38	21.22	21.89	22.37	22.43	23.10	22.94	23.60	24.09
	12H	20.86	21.45	21.37	21.94	22.50	22.80	23.40	23.31	23.89	24.45
12H	4H	19.90	20.70	20.38	21.18	21.65	20.89	21.69	21.37	22.16	22.63
	6H	20.62	21.29	21.13	21.80	22.28	21.99	22.67	22.50	23.17	23.65
	8H	20.91	21.50	21.42	21.99	22.55	22.55	23.14	23.05	23.63	24.19