

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: P1587599

Luminaire Tested: 22CZSP-SB-31-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587599
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-L845
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 3000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

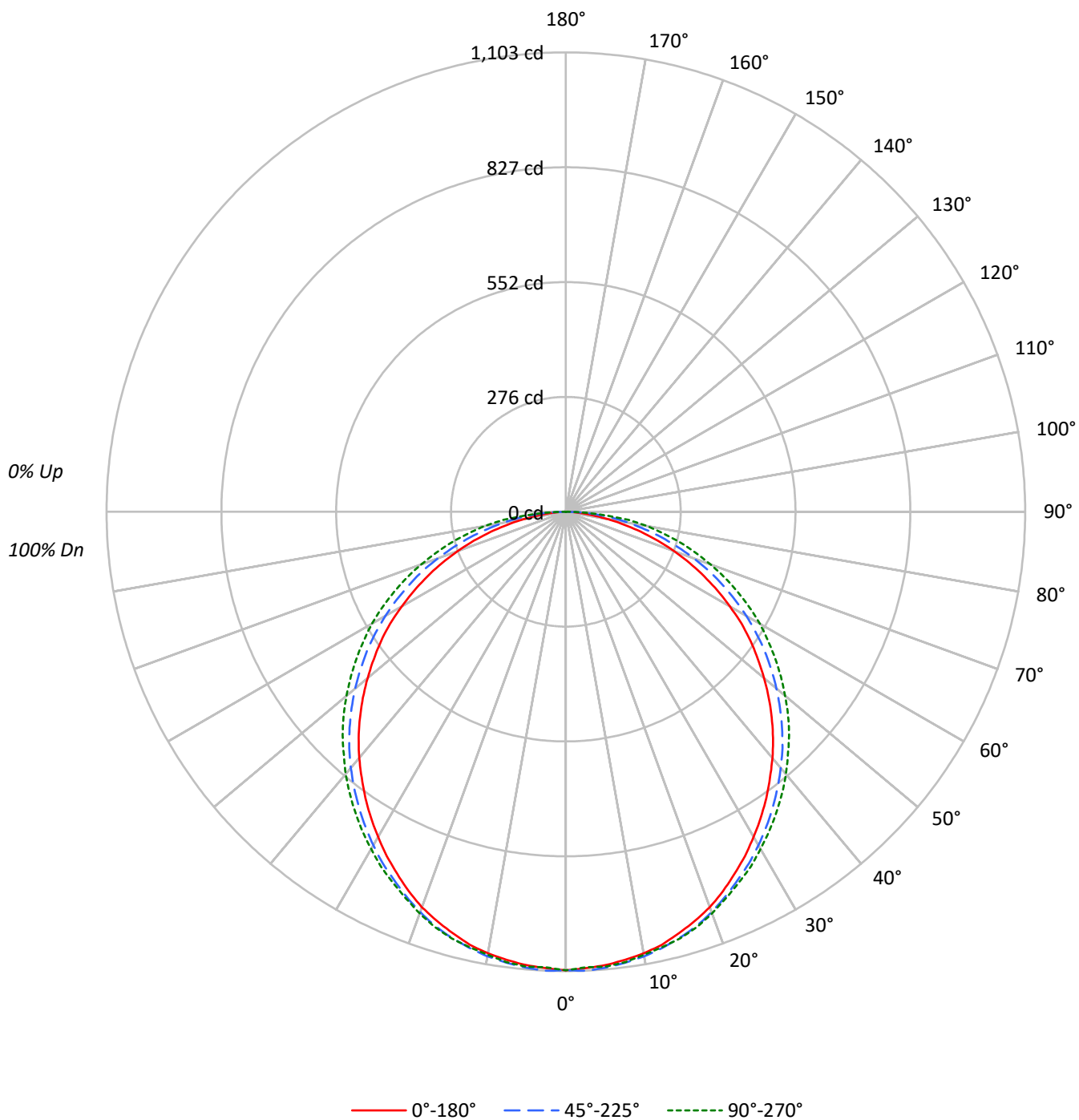
Lumens per Lamp: N/A
Luminaire Lumens: 3213.0 lumens
Efficiency: N/A
Efficacy: 153.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	3448	3448	3448
5°	3435	3454	3446
10°	3423	3447	3434
15°	3397	3432	3437
20°	3367	3408	3420
25°	3313	3371	3395
30°	3260	3344	3381
35°	3208	3312	3369
40°	3155	3283	3361
45°	3096	3252	3358
50°	3028	3217	3349
55°	2959	3182	3349
60°	2849	3134	3369
65°	2716	3073	3371
70°	2534	2988	3381
75°	2254	2879	3440
80°	1852	2759	3569
85°	1222	2590	3226

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3654 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.1	3.2
10°-20°	298.1	9.3
20°-30°	449.3	14.0
30°-40°	541.1	16.8
40°-50°	565.3	17.6
50°-60°	519.3	16.2
60°-70°	409.0	12.7
70°-80°	250.7	7.8
80°-90°	76.0	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°	851.5	26.5
0°-40°	1392.6	43.3
0°-60°	2477.3	77.1
0°-90°	3213.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3213.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1101	1101	1101	1101	1101	
5°	1093	1095	1099	1098	1096	104
15°	1048	1052	1059	1063	1060	296
25°	959	965	976	986	983	442
35°	839	850	866	882	881	525
45°	699	714	734	755	758	539
55°	542	558	583	608	613	484
65°	366	386	415	443	455	362
75°	186	208	238	267	284	198
85°	34	50	72	80	90	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1101.0	1101.0	1101.0	1101.0	1101.0
2.5°	1096.9	1099.6	1103.0	1097.6	1094.8
5°	1092.8	1094.8	1098.9	1097.6	1096.2
7.5°	1085.3	1086.7	1092.1	1092.1	1090.8
10°	1076.5	1079.2	1084.0	1083.3	1079.9
12.5°	1064.9	1067.0	1072.4	1072.4	1070.4
15°	1047.9	1052.0	1058.8	1062.9	1060.2
17.5°	1030.2	1034.3	1043.2	1047.2	1045.9
20°	1010.5	1013.9	1022.8	1028.9	1026.2
22.5°	986.0	990.1	1000.3	1007.1	1004.4
25°	958.8	965.0	975.8	986.0	982.6
27.5°	931.6	938.4	952.0	962.2	960.9
30°	901.7	910.6	924.8	937.8	935.0
32.5°	871.1	881.3	896.3	909.9	909.2
35°	839.2	850.0	866.4	882.0	881.3
37.5°	805.2	818.1	835.1	852.1	852.8
40°	771.8	784.1	803.1	821.5	822.2
42.5°	736.5	749.4	769.8	788.8	789.5
45°	699.1	714.0	734.4	754.8	758.2
47.5°	661.0	676.6	697.7	719.5	723.6
50°	621.5	637.9	660.3	683.4	687.5
52.5°	581.4	598.4	621.5	644.7	650.8
55°	542.0	557.6	582.8	607.9	613.4
57.5°	500.5	514.8	542.0	568.5	575.3
60°	454.9	472.6	500.5	527.0	537.9
62.5°	410.7	429.8	458.3	484.9	497.1
65°	366.5	385.6	414.8	442.7	454.9
67.5°	321.7	341.4	372.7	399.2	412.8
70°	276.8	296.5	326.4	355.0	369.3
72.5°	231.9	253.0	282.2	311.5	325.7
75°	186.3	208.1	238.0	266.6	284.3
77.5°	143.5	164.6	194.5	223.7	238.7
80°	102.7	123.8	153.0	182.2	197.9
82.5°	65.3	85.0	113.6	138.0	152.3
85°	34.0	50.3	72.1	80.2	89.8
87.5°	10.2	19.7	27.9	31.3	38.8
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	15.81	17.48	16.18	17.79	18.10	16.56	18.22	16.92	18.54	18.85
	3H	17.58	19.08	17.95	19.41	19.77	18.66	20.16	19.03	20.49	20.85
	4H	18.20	19.62	18.60	19.97	20.35	19.54	20.96	19.94	21.31	21.68
	6H	18.61	19.93	19.02	20.30	20.69	20.31	21.63	20.72	21.99	22.38
	8H	18.72	19.98	19.14	20.37	20.77	20.62	21.88	21.04	22.27	22.67
	12H	18.77	19.98	19.20	20.36	20.79	20.83	22.04	21.26	22.42	22.85
4H	2H	16.58	18.01	16.98	18.35	18.73	17.16	18.59	17.56	18.93	19.31
	3H	18.58	19.78	18.99	20.17	20.57	19.49	20.69	19.90	21.09	21.49
	4H	19.33	20.42	19.76	20.83	21.26	20.53	21.61	20.96	22.03	22.46
	6H	19.87	20.82	20.32	21.26	21.71	21.46	22.41	21.91	22.85	23.30
	8H	20.02	20.91	20.47	21.35	21.81	21.84	22.73	22.30	23.17	23.64
	12H	20.10	20.90	20.58	21.38	21.85	22.12	22.92	22.60	23.39	23.86
8H	4H	19.78	20.68	20.24	21.12	21.58	20.83	21.72	21.29	22.16	22.62
	6H	20.46	21.21	20.95	21.69	22.17	21.91	22.66	22.40	23.14	23.62
	8H	20.68	21.35	21.19	21.86	22.34	22.40	23.07	22.91	23.57	24.06
	12H	20.83	21.42	21.33	21.91	22.47	22.77	23.36	23.28	23.85	24.41
12H	4H	19.87	20.67	20.35	21.14	21.61	20.85	21.66	21.33	22.13	22.60
	6H	20.59	21.26	21.10	21.76	22.25	21.96	22.63	22.47	23.14	23.62
	8H	20.88	21.47	21.39	21.96	22.52	22.52	23.11	23.02	23.60	24.16