

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: P1587662

Luminaire Tested: 22CZSP-SB-37HE-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587662
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-37HE-L930-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 3500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

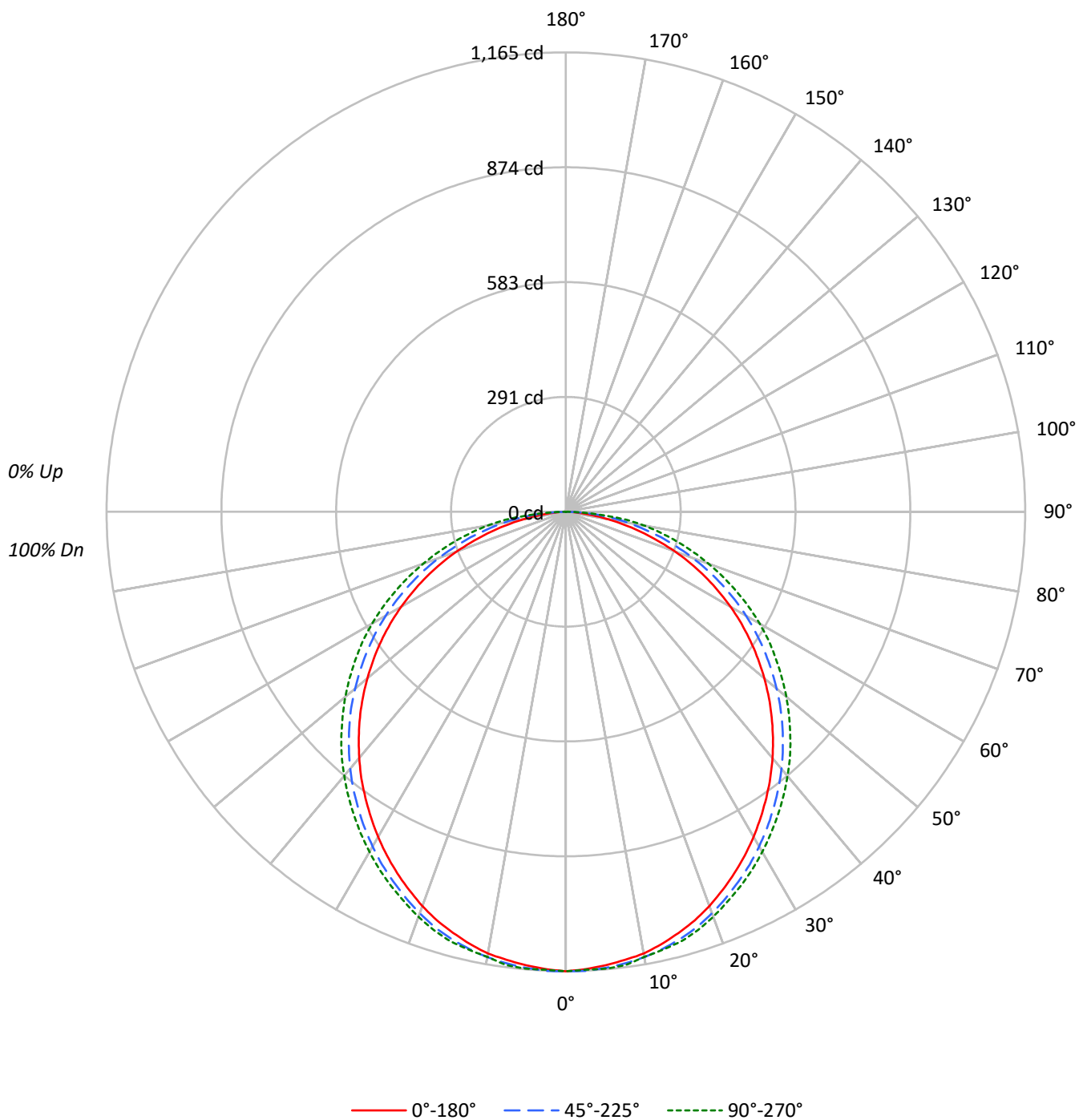
Lumens per Lamp: N/A
Luminaire Lumens: 3390.0 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.1
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

TEST NUMBER: P1587662

CATALOG NUMBER: 22CZSP-SB-37HE-L930-S

Luminous Intensity Polar Plot



TEST NUMBER: P1587662

CATALOG NUMBER: 22CZSP-SB-37HE-L930-S

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°	3649	3649	3649
5°	3629	3649	3656
10°	3617	3647	3645
15°	3584	3636	3657
20°	3546	3611	3643
25°	3495	3575	3621
30°	3444	3544	3602
35°	3387	3510	3585
40°	3333	3479	3574
45°	3271	3443	3565
50°	3201	3400	3556
55°	3121	3356	3551
60°	3024	3307	3553
65°	2885	3236	3534
70°	2697	3138	3526
75°	2391	3017	3538
80°	1946	2867	3643
85°	1257	2648	3144

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3692 cd/sqm

TEST NUMBER: P1587662

CATALOG NUMBER: 22CZSP-SB-37HE-L930-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	3.3
10°-20°	315.8	9.3
20°-30°	476.2	14.0
30°-40°	572.9	16.9
40°-50°	597.6	17.6
50°-60°	547.8	16.2
60°-70°	430.2	12.7
70°-80°	261.8	7.7
80°-90°	77.5	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°	902.3	26.6
0°-40°	1475.2	43.5
0°-60°	2620.6	77.3
0°-90°	3390.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3390.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1165	1165	1165	1165	1165	
5°	1154	1162	1161	1160	1163	110
15°	1106	1116	1122	1123	1128	312
25°	1012	1025	1035	1041	1048	466
35°	886	900	918	931	938	554
45°	739	754	777	796	805	570
55°	572	586	615	640	650	511
65°	389	404	437	466	477	385
75°	198	216	249	279	292	209
85°	35	50	74	82	88	46
90°	0	0	0	0	0	

TEST NUMBER: P1587662

CATALOG NUMBER: 22CZSP-SB-37HE-L930-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1165.4	1165.4	1165.4	1165.4	1165.4
2.5°	1161.0	1166.8	1165.4	1160.3	1162.4
5°	1154.4	1161.7	1161.0	1159.5	1163.2
7.5°	1146.4	1154.4	1155.2	1155.2	1159.5
10°	1137.7	1145.7	1147.1	1144.9	1146.4
12.5°	1123.1	1132.5	1135.5	1135.5	1137.7
15°	1105.6	1116.5	1121.6	1123.1	1128.2
17.5°	1086.6	1098.3	1104.8	1108.5	1112.9
20°	1064.0	1076.4	1083.7	1088.1	1093.2
22.5°	1038.5	1052.3	1060.4	1064.7	1070.6
25°	1011.5	1025.3	1034.8	1041.4	1048.0
27.5°	983.0	996.2	1009.3	1017.3	1023.2
30°	952.4	966.3	980.1	990.3	996.2
32.5°	919.6	934.2	950.2	961.2	967.7
35°	886.1	899.9	918.1	931.3	937.8
37.5°	851.8	866.4	885.3	899.2	907.2
40°	815.3	830.6	851.1	866.4	874.4
42.5°	777.4	792.0	814.6	832.1	841.6
45°	738.7	754.1	777.4	795.6	805.1
47.5°	698.6	713.2	738.7	759.9	767.9
50°	657.1	670.9	697.9	720.5	730.0
52.5°	614.8	629.4	656.3	680.4	690.6
55°	571.7	586.3	614.8	639.6	650.5
57.5°	528.0	542.6	571.7	597.3	610.4
60°	482.8	497.4	528.0	554.2	567.4
62.5°	436.1	451.4	482.8	509.8	523.6
65°	389.4	404.0	436.8	466.0	476.9
67.5°	342.8	357.3	389.4	418.6	431.7
70°	294.6	311.4	342.8	373.4	385.1
72.5°	244.3	263.3	294.6	326.7	338.4
75°	197.6	215.9	249.4	279.3	292.4
77.5°	151.7	171.4	202.7	233.4	246.5
80°	107.9	126.9	159.0	188.2	202.0
82.5°	68.6	85.3	117.4	143.7	153.9
85°	35.0	49.6	73.7	82.4	87.5
87.5°	10.2	17.5	26.3	32.8	36.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1587662

CATALOG NUMBER: 22CZSP-SB-37HE-L930-S

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	16.00	17.66	16.36	17.97	18.29	16.73	18.39	17.10	18.71	19.02
	3H	17.77	19.27	18.14	19.60	19.96	18.81	20.32	19.19	20.64	21.00
	4H	18.38	19.80	18.78	20.15	20.53	19.68	21.10	20.07	21.44	21.82
	6H	18.79	20.11	19.20	20.48	20.87	20.42	21.74	20.83	22.10	22.49
	8H	18.90	20.16	19.32	20.55	20.94	20.72	21.98	21.14	22.37	22.76
	12H	18.95	20.15	19.37	20.53	20.96	20.91	22.12	21.34	22.50	22.93
4H	2H	16.77	18.19	17.16	18.53	18.91	17.34	18.76	17.73	19.10	19.48
	3H	18.76	19.95	19.17	20.35	20.75	19.65	20.85	20.06	21.24	21.64
	4H	19.50	20.58	19.93	21.00	21.43	20.67	21.75	21.10	22.16	22.60
	6H	20.03	20.98	20.48	21.42	21.87	21.57	22.52	22.03	22.96	23.42
	8H	20.17	21.06	20.63	21.50	21.96	21.94	22.83	22.40	23.27	23.74
	12H	20.25	21.05	20.73	21.53	21.99	22.19	23.00	22.67	23.47	23.94
8H	4H	19.94	20.83	20.40	21.28	21.74	20.97	21.86	21.42	22.30	22.76
	6H	20.61	21.35	21.10	21.84	22.31	22.02	22.77	22.52	23.25	23.73
	8H	20.82	21.48	21.32	21.99	22.47	22.50	23.16	23.00	23.67	24.15
	12H	20.95	21.54	21.46	22.03	22.59	22.85	23.44	23.35	23.93	24.49
12H	4H	20.03	20.83	20.50	21.30	21.77	20.99	21.79	21.47	22.27	22.74
	6H	20.73	21.40	21.24	21.90	22.39	22.07	22.74	22.58	23.25	23.73
	8H	21.01	21.60	21.51	22.09	22.65	22.61	23.20	23.12	23.69	24.25