

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: P1587664

Luminaire Tested: 22CZSP-SB-37HE-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587664
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-L935-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 3500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

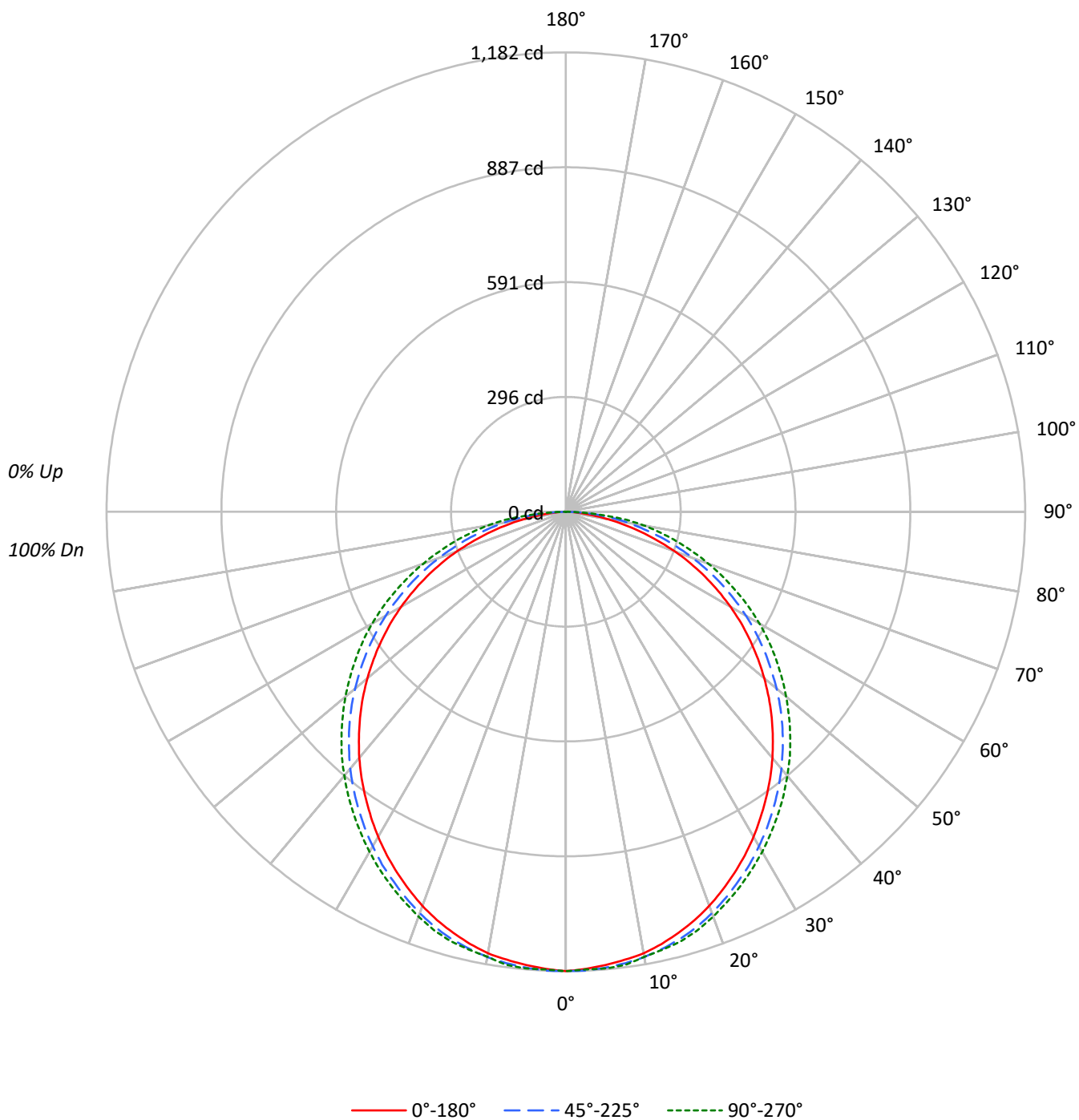
Lumens per Lamp: N/A
Luminaire Lumens: 3438.0 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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: P1587664

CATALOG NUMBER: 22CZSP-SB-37HE-L935-S

Luminous Intensity Polar Plot



TEST NUMBER: P1587664

CATALOG NUMBER: 22CZSP-SB-37HE-L935-S

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	94	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	45	39		50
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3701	3701	3701
5°	3680	3701	3708
10°	3669	3699	3697
15°	3635	3688	3709
20°	3596	3662	3694
25°	3544	3626	3672
30°	3492	3594	3653
35°	3435	3559	3636
40°	3380	3528	3625
45°	3318	3491	3616
50°	3246	3448	3606
55°	3165	3404	3602
60°	3066	3354	3604
65°	2926	3282	3584
70°	2736	3182	3575
75°	2425	3060	3588
80°	1975	2907	3695
85°	1275	2684	3190

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3745 cd/sqm

TEST NUMBER: P1587664

CATALOG NUMBER: 22CZSP-SB-37HE-L935-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	3.3
10°-20°	320.3	9.3
20°-30°	482.9	14.0
30°-40°	581.1	16.9
40°-50°	606.1	17.6
50°-60°	555.5	16.2
60°-70°	436.2	12.7
70°-80°	265.5	7.7
80°-90°	78.6	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°	915.0	26.6
0°-40°	1496.1	43.5
0°-60°	2657.7	77.3
0°-90°	3438.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3438.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1182	1182	1182	1182	1182	
5°	1171	1178	1177	1176	1180	111
15°	1121	1132	1138	1139	1144	316
25°	1026	1040	1050	1056	1063	473
35°	899	913	931	944	951	562
45°	749	765	788	807	816	578
55°	580	595	624	649	660	518
65°	395	410	443	473	484	391
75°	200	219	253	283	297	212
85°	36	50	75	84	89	46
90°	0	0	0	0	0	

TEST NUMBER: P1587664

CATALOG NUMBER: 22CZSP-SB-37HE-L935-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1181.9	1181.9	1181.9	1181.9	1181.9
2.5°	1177.4	1183.3	1181.9	1176.7	1178.9
5°	1170.8	1178.2	1177.4	1175.9	1179.6
7.5°	1162.6	1170.8	1171.5	1171.5	1175.9
10°	1153.8	1161.9	1163.4	1161.2	1162.6
12.5°	1139.0	1148.6	1151.5	1151.5	1153.8
15°	1121.2	1132.3	1137.5	1139.0	1144.1
17.5°	1102.0	1113.8	1120.5	1124.2	1128.6
20°	1079.1	1091.6	1099.0	1103.5	1108.6
22.5°	1053.2	1067.2	1075.4	1079.8	1085.7
25°	1025.8	1039.9	1049.5	1056.1	1062.8
27.5°	997.0	1010.3	1023.6	1031.7	1037.6
30°	965.9	980.0	994.0	1004.4	1010.3
32.5°	932.6	947.4	963.7	974.8	981.4
35°	898.6	912.7	931.1	944.5	951.1
37.5°	863.8	878.6	897.9	911.9	920.1
40°	826.9	842.4	863.1	878.6	886.8
42.5°	788.4	803.2	826.1	843.9	853.5
45°	749.2	764.7	788.4	806.9	816.5
47.5°	708.5	723.3	749.2	770.7	778.8
50°	666.4	680.4	707.8	730.7	740.3
52.5°	623.5	638.3	665.6	690.0	700.4
55°	579.8	594.6	623.5	648.6	659.7
57.5°	535.5	550.3	579.8	605.7	619.0
60°	489.6	504.4	535.5	562.1	575.4
62.5°	442.3	457.8	489.6	517.0	531.0
65°	394.9	409.7	443.0	472.6	483.7
67.5°	347.6	362.4	394.9	424.5	437.8
70°	298.8	315.8	347.6	378.7	390.5
72.5°	247.8	267.0	298.8	331.3	343.2
75°	200.4	218.9	252.9	283.3	296.6
77.5°	153.8	173.8	205.6	236.7	250.0
80°	109.5	128.7	161.2	190.8	204.9
82.5°	69.5	86.5	119.1	145.7	156.1
85°	35.5	50.3	74.7	83.6	88.8
87.5°	10.4	17.8	26.6	33.3	37.0
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1587664

CATALOG NUMBER: 22CZSP-SB-37HE-L935-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	16.05	17.71	16.41	18.02	18.33	16.78	18.44	17.15	18.75	19.07
	3H	17.81	19.32	18.19	19.65	20.01	18.86	20.36	19.24	20.69	21.05
	4H	18.43	19.85	18.83	20.20	20.58	19.73	21.15	20.12	21.49	21.87
	6H	18.84	20.16	19.25	20.52	20.91	20.47	21.79	20.88	22.15	22.54
	8H	18.95	20.21	19.37	20.59	20.99	20.77	22.03	21.19	22.41	22.81
	12H	18.99	20.20	19.42	20.58	21.01	20.96	22.17	21.39	22.55	22.98
4H	2H	16.81	18.23	17.21	18.58	18.96	17.39	18.80	17.78	19.15	19.53
	3H	18.81	20.00	19.21	20.40	20.80	19.70	20.89	20.11	21.29	21.69
	4H	19.55	20.63	19.98	21.04	21.48	20.72	21.80	21.15	22.21	22.65
	6H	20.08	21.03	20.53	21.47	21.92	21.62	22.57	22.08	23.01	23.47
	8H	20.22	21.11	20.68	21.55	22.01	21.99	22.88	22.45	23.32	23.78
	12H	20.30	21.10	20.78	21.57	22.04	22.24	23.04	22.72	23.52	23.99
8H	4H	19.99	20.88	20.45	21.32	21.79	21.01	21.90	21.47	22.35	22.81
	6H	20.66	21.40	21.15	21.89	22.36	22.07	22.81	22.56	23.30	23.77
	8H	20.87	21.53	21.37	22.04	22.52	22.54	23.21	23.05	23.72	24.20
	12H	21.00	21.59	21.51	22.08	22.64	22.90	23.49	23.40	23.98	24.53
12H	4H	20.07	20.88	20.55	21.35	21.82	21.04	21.84	21.52	22.32	22.78
	6H	20.78	21.45	21.29	21.95	22.44	22.12	22.79	22.63	23.30	23.78
	8H	21.06	21.65	21.56	22.14	22.70	22.66	23.25	23.17	23.74	24.30