

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: P1587671

Luminaire Tested: 22CZSP-SB-37HE-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587671
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-37HE-L950
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 3500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

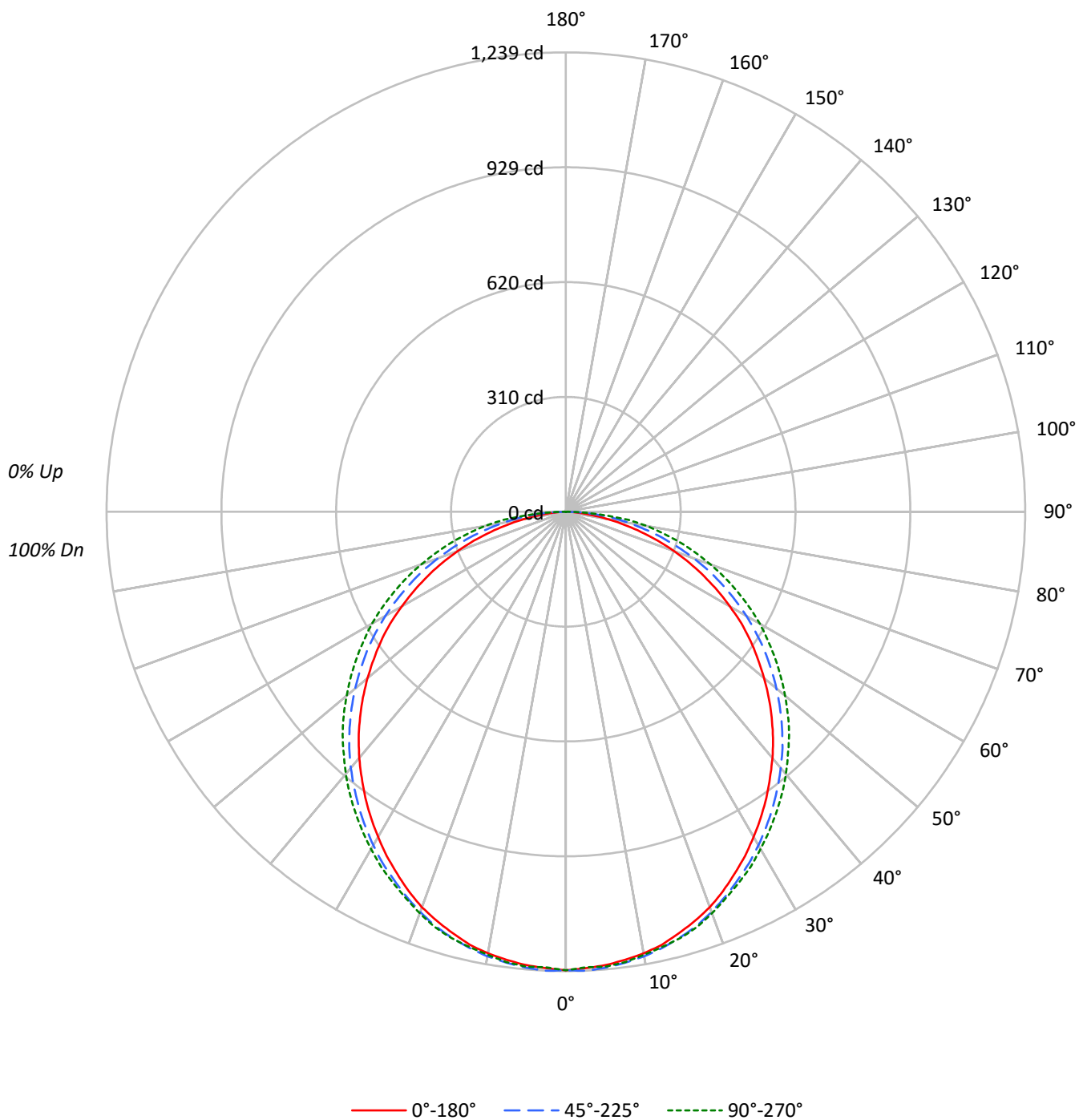
Lumens per Lamp: N/A
Luminaire Lumens: 3609.0 lumens
Efficiency: N/A
Efficacy: 149.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1587671

CATALOG NUMBER: 22CZSP-SB-37HE-L950

Luminous Intensity Polar Plot



TEST NUMBER: P1587671

CATALOG NUMBER: 22CZSP-SB-37HE-L950

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°	3873	3873	3873
5°	3858	3880	3870
10°	3845	3872	3857
15°	3816	3855	3860
20°	3782	3828	3841
25°	3721	3787	3814
30°	3662	3756	3798
35°	3603	3720	3784
40°	3544	3687	3775
45°	3477	3653	3772
50°	3401	3613	3762
55°	3324	3574	3761
60°	3200	3521	3784
65°	3050	3452	3786
70°	2846	3356	3798
75°	2532	3234	3863
80°	2079	3100	4009
85°	1372	2910	3622

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4105 cd/sqm

TEST NUMBER: P1587671

CATALOG NUMBER: 22CZSP-SB-37HE-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.0	3.2
10°-20°	334.8	9.3
20°-30°	504.7	14.0
30°-40°	607.8	16.8
40°-50°	635.0	17.6
50°-60°	583.4	16.2
60°-70°	459.4	12.7
70°-80°	281.6	7.8
80°-90°	85.4	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°	956.5	26.5
0°-40°	1564.3	43.3
0°-60°	2782.6	77.1
0°-90°	3609.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3609.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1237	1237	1237	1237	1237	
5°	1228	1230	1234	1233	1231	117
15°	1177	1182	1189	1194	1191	332
25°	1077	1084	1096	1108	1104	497
35°	943	955	973	991	990	590
45°	785	802	825	848	852	606
55°	609	626	655	683	689	543
65°	412	433	466	497	511	407
75°	209	234	267	299	319	222
85°	38	56	81	90	101	49
90°	0	0	0	0	0	

TEST NUMBER: P1587671

CATALOG NUMBER: 22CZSP-SB-37HE-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1236.7	1236.7	1236.7	1236.7	1236.7
2.5°	1232.1	1235.1	1239.0	1232.8	1229.8
5°	1227.5	1229.8	1234.4	1232.8	1231.3
7.5°	1219.1	1220.6	1226.7	1226.7	1225.2
10°	1209.2	1212.2	1217.6	1216.8	1213.0
12.5°	1196.2	1198.5	1204.6	1204.6	1202.3
15°	1177.1	1181.7	1189.3	1193.9	1190.8
17.5°	1157.2	1161.8	1171.7	1176.3	1174.8
20°	1135.1	1138.9	1148.8	1155.7	1152.6
22.5°	1107.6	1112.2	1123.6	1131.2	1128.2
25°	1077.0	1083.9	1096.1	1107.6	1103.8
27.5°	1046.5	1054.1	1069.4	1080.8	1079.3
30°	1012.9	1022.8	1038.8	1053.3	1050.3
32.5°	978.5	989.9	1006.7	1022.0	1021.3
35°	942.6	954.8	973.1	990.7	989.9
37.5°	904.4	918.9	938.0	957.1	957.9
40°	867.0	880.7	902.1	922.7	923.5
42.5°	827.2	841.8	864.7	886.1	886.8
45°	785.2	802.0	824.9	847.9	851.7
47.5°	742.5	760.0	783.7	808.1	812.7
50°	698.2	716.5	741.7	767.7	772.2
52.5°	653.1	672.2	698.2	724.1	731.0
55°	608.8	626.4	654.6	682.9	689.0
57.5°	562.2	578.2	608.8	638.6	646.2
60°	511.0	530.9	562.2	592.0	604.2
62.5°	461.4	482.7	514.8	544.6	558.4
65°	411.7	433.1	465.9	497.3	511.0
67.5°	361.3	383.4	418.6	448.4	463.7
70°	310.9	333.0	366.6	398.7	414.8
72.5°	260.5	284.1	317.0	349.8	365.9
75°	209.3	233.7	267.3	299.4	319.3
77.5°	161.2	184.8	218.5	251.3	268.1
80°	115.3	139.0	171.9	204.7	222.3
82.5°	73.3	95.5	127.6	155.1	171.1
85°	38.2	56.5	81.0	90.1	100.8
87.5°	11.5	22.2	31.3	35.1	43.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1587671

CATALOG NUMBER: 22CZSP-SB-37HE-L950

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	16.22	17.88	16.58	18.19	18.51	16.96	18.63	17.33	18.94	19.25
	3H	17.98	19.49	18.36	19.81	20.17	19.06	20.57	19.44	20.89	21.25
	4H	18.60	20.03	19.00	20.37	20.75	19.94	21.37	20.34	21.71	22.09
	6H	19.02	20.34	19.43	20.70	21.09	20.71	22.03	21.12	22.40	22.79
	8H	19.12	20.39	19.55	20.77	21.17	21.02	22.28	21.45	22.67	23.07
	12H	19.17	20.39	19.60	20.77	21.19	21.23	22.45	21.66	22.83	23.26
4H	2H	16.99	18.41	17.38	18.76	19.13	17.57	18.99	17.96	19.34	19.71
	3H	18.98	20.18	19.39	20.58	20.97	19.90	21.09	20.30	21.49	21.89
	4H	19.73	20.82	20.16	21.23	21.67	20.93	22.02	21.36	22.43	22.86
	6H	20.27	21.22	20.72	21.66	22.12	21.86	22.81	22.31	23.25	23.71
	8H	20.42	21.31	20.88	21.75	22.22	22.24	23.14	22.70	23.58	24.04
	12H	20.50	21.31	20.98	21.78	22.25	22.52	23.32	23.00	23.80	24.27
8H	4H	20.19	21.08	20.65	21.52	21.98	21.23	22.12	21.69	22.56	23.03
	6H	20.86	21.61	21.36	22.10	22.57	22.31	23.06	22.81	23.55	24.02
	8H	21.08	21.75	21.59	22.26	22.74	22.80	23.47	23.31	23.98	24.46
	12H	21.23	21.82	21.74	22.31	22.87	23.18	23.77	23.68	24.26	24.82
12H	4H	20.27	21.07	20.75	21.55	22.02	21.26	22.06	21.74	22.54	23.00
	6H	20.99	21.66	21.50	22.17	22.65	22.37	23.04	22.87	23.54	24.03
	8H	21.28	21.88	21.79	22.36	22.92	22.92	23.51	23.43	24.00	24.56