

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: P1587686

Luminaire Tested: 22CZSP-SB-42-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587686
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-42-L940-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

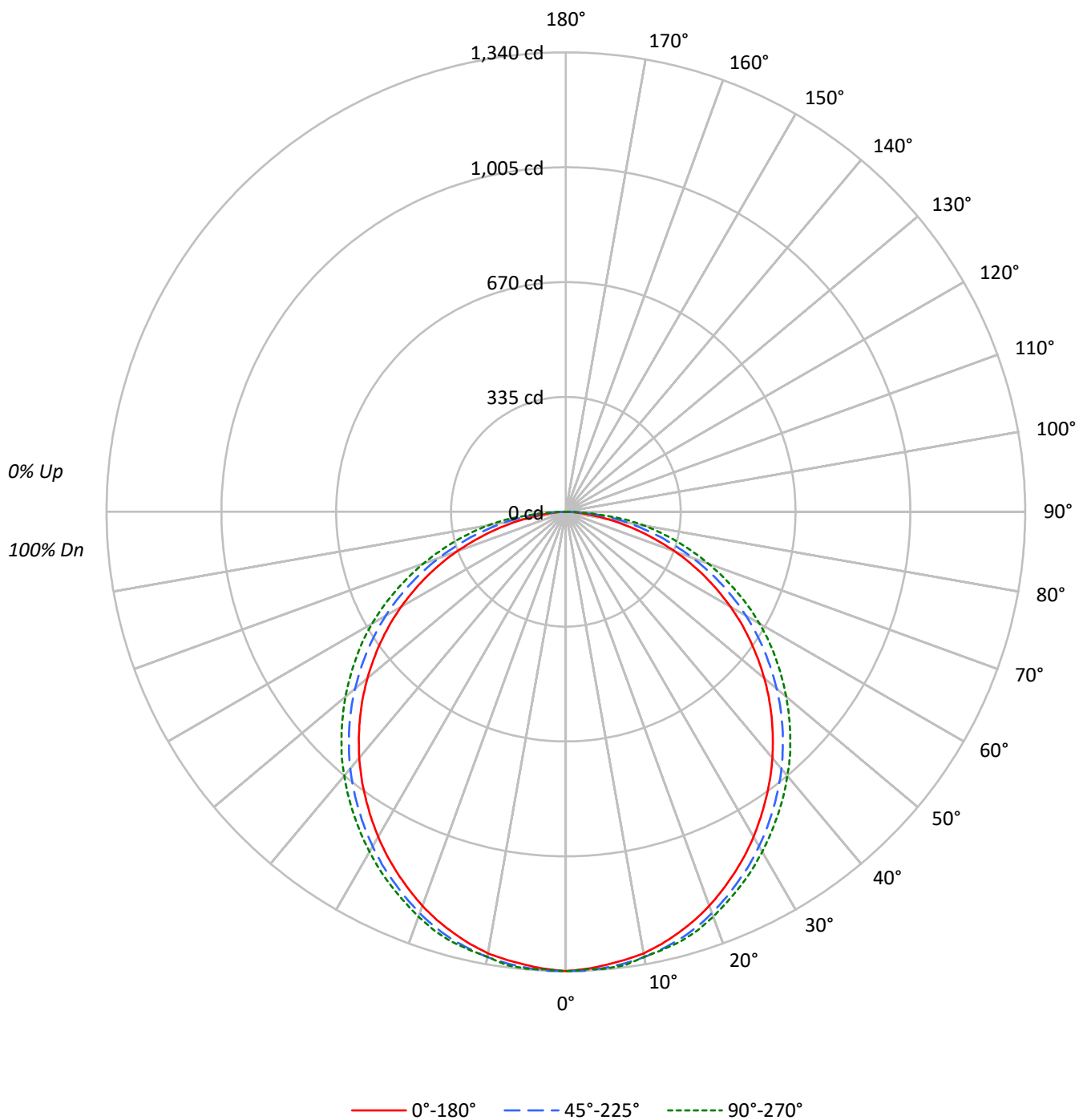
Lumens per Lamp: N/A
Luminaire Lumens: 3898.0 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.9
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: P1587686

CATALOG NUMBER: 22CZSP-SB-42-L940-S

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	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°	4196	4196	4196
5°	4172	4196	4204
10°	4159	4194	4191
15°	4121	4181	4205
20°	4077	4152	4189
25°	4019	4111	4163
30°	3960	4075	4142
35°	3895	4036	4122
40°	3832	4000	4110
45°	3761	3959	4100
50°	3680	3909	4089
55°	3589	3859	4084
60°	3476	3802	4086
65°	3318	3722	4063
70°	3102	3608	4054
75°	2749	3470	4069
80°	2238	3296	4189
85°	1448	3043	3614

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4244 cd/sqm

TEST NUMBER: P1587686

CATALOG NUMBER: 22CZSP-SB-42-L940-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.8	3.3
10°-20°	363.1	9.3
20°-30°	547.5	14.0
30°-40°	658.8	16.9
40°-50°	687.2	17.6
50°-60°	629.9	16.2
60°-70°	494.6	12.7
70°-80°	301.0	7.7
80°-90°	89.0	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°	1037.5	26.6
0°-40°	1696.2	43.5
0°-60°	3013.3	77.3
0°-90°	3898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3898.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1340	1340	1340	1340	1340	
5°	1327	1336	1335	1333	1338	126
15°	1271	1284	1290	1291	1297	359
25°	1163	1179	1190	1197	1205	536
35°	1019	1035	1056	1071	1078	638
45°	849	867	894	915	926	655
55°	657	674	707	735	748	587
65°	448	465	502	536	548	443
75°	227	248	287	321	336	241
85°	40	57	85	95	101	52
90°	0	0	0	0	0	

TEST NUMBER: P1587686

CATALOG NUMBER: 22CZSP-SB-42-L940-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1340.0	1340.0	1340.0	1340.0	1340.0
2.5°	1335.0	1341.7	1340.0	1334.1	1336.6
5°	1327.4	1335.8	1335.0	1333.3	1337.5
7.5°	1318.2	1327.4	1328.3	1328.3	1333.3
10°	1308.1	1317.4	1319.0	1316.5	1318.2
12.5°	1291.4	1302.3	1305.6	1305.6	1308.1
15°	1271.2	1283.8	1289.7	1291.4	1297.2
17.5°	1249.4	1262.9	1270.4	1274.6	1279.6
20°	1223.4	1237.7	1246.1	1251.1	1257.0
22.5°	1194.1	1210.0	1219.2	1224.3	1231.0
25°	1163.1	1179.0	1189.9	1197.4	1205.0
27.5°	1130.4	1145.5	1160.5	1169.8	1176.5
30°	1095.1	1111.1	1127.0	1138.7	1145.5
32.5°	1057.4	1074.2	1092.6	1105.2	1112.8
35°	1018.8	1034.8	1055.7	1070.8	1078.4
37.5°	979.4	996.2	1018.0	1033.9	1043.2
40°	937.5	955.1	978.6	996.2	1005.4
42.5°	893.9	910.7	936.7	956.8	967.7
45°	849.4	867.1	893.9	914.9	925.8
47.5°	803.3	820.1	849.4	873.8	883.0
50°	755.5	771.5	802.5	828.5	839.4
52.5°	706.9	723.7	754.7	782.4	794.1
55°	657.4	674.2	706.9	735.4	748.0
57.5°	607.1	623.9	657.4	686.8	701.9
60°	555.1	571.9	607.1	637.3	652.4
62.5°	501.5	519.1	555.1	586.1	602.1
65°	447.8	464.6	502.3	535.8	548.4
67.5°	394.1	410.9	447.8	481.3	496.4
70°	338.8	358.1	394.1	429.3	442.8
72.5°	280.9	302.7	338.8	375.7	389.1
75°	227.2	248.2	286.8	321.2	336.3
77.5°	174.4	197.1	233.1	268.3	283.4
80°	124.1	145.9	182.8	216.3	232.3
82.5°	78.8	98.1	135.0	165.2	176.9
85°	40.3	57.0	84.7	94.8	100.6
87.5°	11.7	20.1	30.2	37.7	41.9
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1587686

CATALOG NUMBER: 22CZSP-SB-42-L940-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	16.48	18.14	16.85	18.46	18.77	17.22	18.88	17.58	19.19	19.51
	3H	18.25	19.76	18.63	20.08	20.44	19.30	20.80	19.67	21.13	21.49
	4H	18.87	20.29	19.27	20.64	21.01	20.16	21.58	20.56	21.93	22.30
	6H	19.28	20.60	19.69	20.96	21.35	20.91	22.22	21.32	22.59	22.98
	8H	19.38	20.64	19.81	21.03	21.43	21.20	22.46	21.63	22.85	23.25
	12H	19.43	20.64	19.86	21.02	21.45	21.40	22.60	21.82	22.98	23.41
4H	2H	17.25	18.67	17.65	19.02	19.39	17.82	19.24	18.22	19.59	19.96
	3H	19.24	20.44	19.65	20.83	21.23	20.13	21.33	20.54	21.73	22.13
	4H	19.98	21.07	20.41	21.48	21.92	21.15	22.24	21.58	22.65	23.08
	6H	20.51	21.46	20.97	21.90	22.36	22.06	23.01	22.51	23.45	23.90
	8H	20.65	21.54	21.11	21.99	22.45	22.43	23.32	22.88	23.76	24.22
	12H	20.74	21.54	21.21	22.01	22.48	22.68	23.48	23.16	23.95	24.42
8H	4H	20.43	21.32	20.89	21.76	22.22	21.45	22.34	21.91	22.78	23.25
	6H	21.09	21.84	21.59	22.32	22.80	22.51	23.25	23.00	23.74	24.21
	8H	21.30	21.97	21.81	22.47	22.96	22.98	23.65	23.49	24.15	24.64
	12H	21.44	22.03	21.94	22.52	23.08	23.33	23.92	23.84	24.41	24.97
12H	4H	20.51	21.31	20.99	21.79	22.25	21.48	22.28	21.96	22.75	23.22
	6H	21.22	21.88	21.72	22.39	22.87	22.56	23.23	23.07	23.73	24.22
	8H	21.49	22.08	22.00	22.57	23.13	23.10	23.69	23.60	24.18	24.73