

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: P1587646

Luminaire Tested: 22CZSP-SB-35-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587646
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-35-L940-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

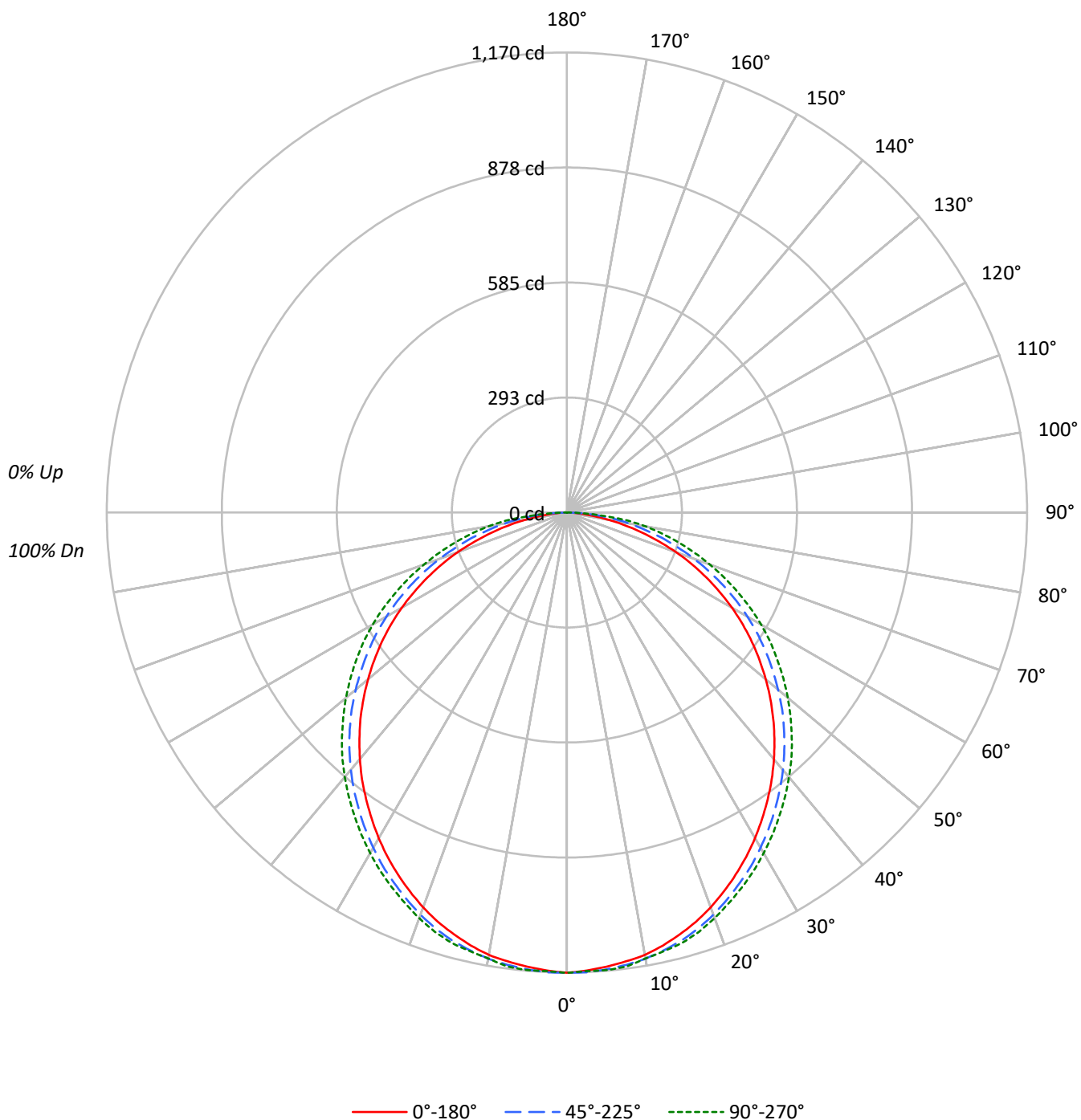
Lumens per Lamp: N/A
Luminaire Lumens: 3405.0 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.7
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: P1587646

CATALOG NUMBER: 22CZSP-SB-35-L940-S

Luminous Intensity Polar Plot



TEST NUMBER: P1587646

CATALOG NUMBER: 22CZSP-SB-35-L940-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°	3665	3665	3665
5°	3645	3665	3672
10°	3633	3664	3661
15°	3600	3652	3674
20°	3561	3627	3659
25°	3510	3591	3637
30°	3459	3560	3618
35°	3402	3525	3601
40°	3347	3494	3590
45°	3286	3458	3581
50°	3215	3415	3572
55°	3135	3371	3567
60°	3037	3321	3569
65°	2899	3251	3549
70°	2709	3152	3541
75°	2402	3031	3553
80°	1955	2880	3659
85°	1265	2659	3158

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3709 cd/sqm

TEST NUMBER: P1587646

CATALOG NUMBER: 22CZSP-SB-35-L940-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.8	3.3
10°-20°	317.2	9.3
20°-30°	478.3	14.0
30°-40°	575.5	16.9
40°-50°	600.3	17.6
50°-60°	550.2	16.2
60°-70°	432.1	12.7
70°-80°	263.0	7.7
80°-90°	77.8	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°	906.2	26.6
0°-40°	1481.7	43.5
0°-60°	2632.2	77.3
0°-90°	3405.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3405.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1170	1170	1170	1170	1170	
5°	1160	1167	1166	1165	1168	110
15°	1110	1121	1127	1128	1133	313
25°	1016	1030	1039	1046	1053	468
35°	890	904	922	935	942	557
45°	742	757	781	799	809	572
55°	574	589	618	642	653	513
65°	391	406	439	468	479	387
75°	198	217	250	280	294	210
85°	35	50	74	83	88	46
90°	0	0	0	0	0	

TEST NUMBER: P1587646

CATALOG NUMBER: 22CZSP-SB-35-L940-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1170.5	1170.5	1170.5	1170.5	1170.5
2.5°	1166.1	1172.0	1170.5	1165.4	1167.6
5°	1159.5	1166.9	1166.1	1164.7	1168.3
7.5°	1151.5	1159.5	1160.3	1160.3	1164.7
10°	1142.7	1150.7	1152.2	1150.0	1151.5
12.5°	1128.0	1137.6	1140.5	1140.5	1142.7
15°	1110.5	1121.4	1126.6	1128.0	1133.2
17.5°	1091.4	1103.1	1109.7	1113.4	1117.8
20°	1068.7	1081.2	1088.5	1092.9	1098.0
22.5°	1043.1	1057.0	1065.0	1069.4	1075.3
25°	1016.0	1029.9	1039.4	1046.0	1052.6
27.5°	987.4	1000.6	1013.8	1021.8	1027.7
30°	956.6	970.6	984.5	994.7	1000.6
32.5°	923.7	938.3	954.4	965.4	972.0
35°	890.0	903.9	922.2	935.4	942.0
37.5°	855.5	870.2	889.2	903.2	911.2
40°	818.9	834.3	854.8	870.2	878.3
42.5°	780.8	795.5	818.2	835.8	845.3
45°	742.0	757.4	780.8	799.1	808.7
47.5°	701.7	716.4	742.0	763.3	771.3
50°	660.0	673.9	701.0	723.7	733.2
52.5°	617.5	632.1	659.2	683.4	693.7
55°	574.3	588.9	617.5	642.4	653.4
57.5°	530.3	545.0	574.3	599.9	613.1
60°	484.9	499.6	530.3	556.7	569.9
62.5°	438.0	453.4	484.9	512.0	525.9
65°	391.2	405.8	438.8	468.1	479.0
67.5°	344.3	358.9	391.2	420.4	433.6
70°	295.9	312.8	344.3	375.0	386.8
72.5°	245.4	264.4	295.9	328.2	339.9
75°	198.5	216.8	250.5	280.5	293.7
77.5°	152.4	172.1	203.6	234.4	247.6
80°	108.4	127.5	159.7	189.0	202.9
82.5°	68.9	85.7	117.9	144.3	154.6
85°	35.2	49.8	74.0	82.8	87.9
87.5°	10.3	17.6	26.4	33.0	36.6
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1587646

CATALOG NUMBER: 22CZSP-SB-35-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	16.01	17.67	16.38	17.99	18.30	16.75	18.41	17.11	18.72	19.04
	3H	17.78	19.29	18.16	19.61	19.97	18.83	20.33	19.20	20.66	21.02
	4H	18.40	19.82	18.80	20.17	20.54	19.69	21.11	20.09	21.46	21.83
	6H	18.81	20.13	19.22	20.49	20.88	20.44	21.75	20.85	22.12	22.51
	8H	18.91	20.17	19.34	20.56	20.96	20.73	21.99	21.16	22.38	22.78
	12H	18.96	20.17	19.39	20.55	20.98	20.93	22.13	21.35	22.51	22.94
4H	2H	16.78	18.20	17.18	18.55	18.92	17.35	18.77	17.75	19.12	19.49
	3H	18.77	19.97	19.18	20.36	20.76	19.66	20.86	20.07	21.26	21.66
	4H	19.51	20.60	19.95	21.01	21.45	20.68	21.77	21.11	22.18	22.61
	6H	20.04	20.99	20.50	21.43	21.89	21.59	22.54	22.04	22.98	23.43
	8H	20.19	21.07	20.64	21.52	21.98	21.96	22.85	22.41	23.29	23.75
	12H	20.27	21.07	20.74	21.54	22.01	22.21	23.01	22.69	23.49	23.95
8H	4H	19.96	20.85	20.42	21.29	21.76	20.98	21.87	21.44	22.31	22.78
	6H	20.62	21.37	21.12	21.85	22.33	22.04	22.78	22.53	23.27	23.74
	8H	20.83	21.50	21.34	22.00	22.49	22.51	23.18	23.02	23.68	24.17
	12H	20.97	21.56	21.47	22.05	22.61	22.86	23.45	23.37	23.94	24.50
12H	4H	20.04	20.84	20.52	21.32	21.78	21.01	21.81	21.49	22.28	22.75
	6H	20.75	21.41	21.25	21.92	22.40	22.09	22.76	22.60	23.26	23.75
	8H	21.02	21.61	21.53	22.10	22.66	22.63	23.22	23.13	23.71	24.27