

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: P1587637

Luminaire Tested: 22CZSP-SB-35-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587637
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-35-L840
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

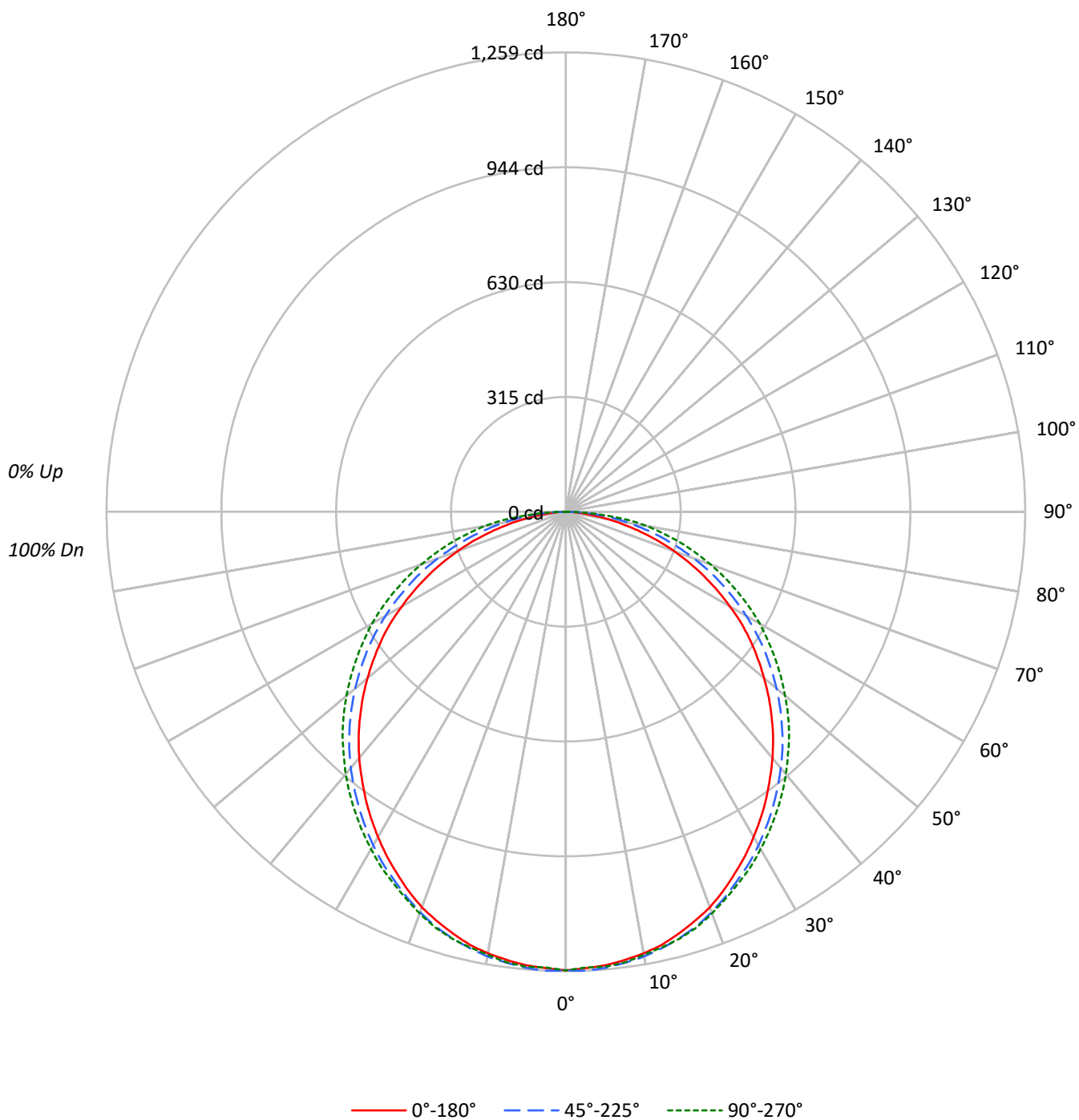
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3668.0 lumens
Efficiency: N/A
Efficacy: 148.5 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): 24.7
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: P1587637
CATALOG NUMBER: 22CZSP-SB-35-L840

Luminous Intensity Polar Plot



TEST NUMBER: P1587637

CATALOG NUMBER: 22CZSP-SB-35-L840

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	93	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	63	87	77	69	63	74	67	62		71	65	61		69
4	82	69	60	54	79	68	60	53	66	58	52		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	44	39		50
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3936	3936	3936
5°	3922	3943	3934
10°	3907	3935	3920
15°	3878	3918	3924
20°	3844	3891	3904
25°	3782	3849	3876
30°	3722	3818	3860
35°	3662	3781	3846
40°	3602	3748	3837
45°	3534	3713	3833
50°	3457	3672	3824
55°	3378	3632	3823
60°	3253	3578	3846
65°	3100	3509	3848
70°	2893	3411	3859
75°	2573	3287	3926
80°	2113	3150	4074
85°	1394	2957	3683

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4172 cd/sqm

TEST NUMBER: P1587637

CATALOG NUMBER: 22CZSP-SB-35-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.9	3.2
10°-20°	340.3	9.3
20°-30°	512.9	14.0
30°-40°	617.7	16.8
40°-50°	645.3	17.6
50°-60°	592.9	16.2
60°-70°	466.9	12.7
70°-80°	286.2	7.8
80°-90°	86.8	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°	972.1	26.5
0°-40°	1589.8	43.3
0°-60°	2828.1	77.1
0°-90°	3668.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3668.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1257	1257	1257	1257	1257	
5°	1248	1250	1254	1253	1251	118
15°	1196	1201	1209	1213	1210	338
25°	1095	1102	1114	1126	1122	505
35°	958	970	989	1007	1006	599
45°	798	815	838	862	866	616
55°	619	637	665	694	700	552
65°	418	440	474	505	519	414
75°	213	238	272	304	324	226
85°	39	57	82	92	102	50
90°	0	0	0	0	0	

TEST NUMBER: P1587637

CATALOG NUMBER: 22CZSP-SB-35-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1256.9	1256.9	1256.9	1256.9	1256.9
2.5°	1252.2	1255.3	1259.2	1253.0	1249.9
5°	1247.6	1249.9	1254.5	1253.0	1251.4
7.5°	1239.0	1240.6	1246.8	1246.8	1245.2
10°	1228.9	1232.0	1237.5	1236.7	1232.8
12.5°	1215.7	1218.1	1224.3	1224.3	1221.9
15°	1196.3	1201.0	1208.7	1213.4	1210.3
17.5°	1176.1	1180.8	1190.9	1195.5	1194.0
20°	1153.6	1157.5	1167.6	1174.6	1171.5
22.5°	1125.7	1130.3	1142.0	1149.7	1146.6
25°	1094.6	1101.6	1114.0	1125.7	1121.8
27.5°	1063.6	1071.3	1086.9	1098.5	1097.0
30°	1029.4	1039.5	1055.8	1070.6	1067.5
32.5°	994.5	1006.1	1023.2	1038.7	1038.0
35°	958.0	970.4	989.0	1006.9	1006.1
37.5°	919.2	933.9	953.3	972.7	973.5
40°	881.1	895.1	916.8	937.8	938.6
42.5°	840.8	855.5	878.8	900.5	901.3
45°	798.1	815.1	838.4	861.7	865.6
47.5°	754.6	772.4	796.5	821.4	826.0
50°	709.6	728.2	753.8	780.2	784.9
52.5°	663.8	683.2	709.6	736.0	742.9
55°	618.7	636.6	665.3	694.0	700.2
57.5°	571.4	587.7	618.7	649.0	656.8
60°	519.4	539.5	571.4	601.7	614.1
62.5°	468.9	490.6	523.2	553.5	567.5
65°	418.4	440.2	473.6	505.4	519.4
67.5°	367.2	389.7	425.4	455.7	471.2
70°	316.0	338.5	372.6	405.2	421.5
72.5°	264.7	288.8	322.2	355.6	371.9
75°	212.7	237.6	271.7	304.3	324.5
77.5°	163.8	187.9	222.0	255.4	272.5
80°	117.2	141.3	174.7	208.1	225.9
82.5°	74.5	97.0	129.6	157.6	173.9
85°	38.8	57.4	82.3	91.6	102.5
87.5°	11.6	22.5	31.8	35.7	44.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1587637

CATALOG NUMBER: 22CZSP-SB-35-L840

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	16.27	17.94	16.64	18.25	18.56	17.02	18.68	17.38	19.00	19.31
	3H	18.04	19.54	18.41	19.87	20.23	19.12	20.62	19.49	20.95	21.31
	4H	18.66	20.08	19.06	20.43	20.81	20.00	21.42	20.40	21.77	22.14
	6H	19.07	20.39	19.48	20.76	21.15	20.77	22.09	21.18	22.45	22.84
	8H	19.18	20.44	19.60	20.83	21.23	21.08	22.34	21.50	22.73	23.13
	12H	19.23	20.44	19.66	20.82	21.25	21.29	22.50	21.72	22.88	23.31
4H	2H	17.04	18.47	17.44	18.81	19.19	17.62	19.05	18.02	19.39	19.77
	3H	19.04	20.24	19.45	20.63	21.03	19.95	21.15	20.36	21.55	21.95
	4H	19.79	20.88	20.22	21.29	21.72	20.99	22.07	21.42	22.49	22.92
	6H	20.33	21.28	20.78	21.72	22.17	21.92	22.87	22.37	23.31	23.76
	8H	20.48	21.37	20.93	21.81	22.27	22.30	23.19	22.76	23.63	24.10
	12H	20.56	21.36	21.04	21.84	22.31	22.58	23.38	23.06	23.85	24.32
8H	4H	20.24	21.14	20.70	21.58	22.04	21.29	22.18	21.75	22.62	23.08
	6H	20.92	21.67	21.41	22.15	22.63	22.37	23.12	22.86	23.60	24.08
	8H	21.14	21.81	21.65	22.31	22.80	22.86	23.53	23.37	24.03	24.52
	12H	21.29	21.88	21.79	22.37	22.93	23.23	23.83	23.74	24.31	24.87
12H	4H	20.33	21.13	20.81	21.60	22.07	21.31	22.12	21.79	22.59	23.06
	6H	21.05	21.72	21.56	22.22	22.71	22.42	23.09	22.93	23.60	24.08
	8H	21.34	21.93	21.84	22.42	22.98	22.98	23.57	23.48	24.06	24.62