

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: P1585680

Luminaire Tested: 14CZSP-SB-42-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585680
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-42-L850-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 3500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

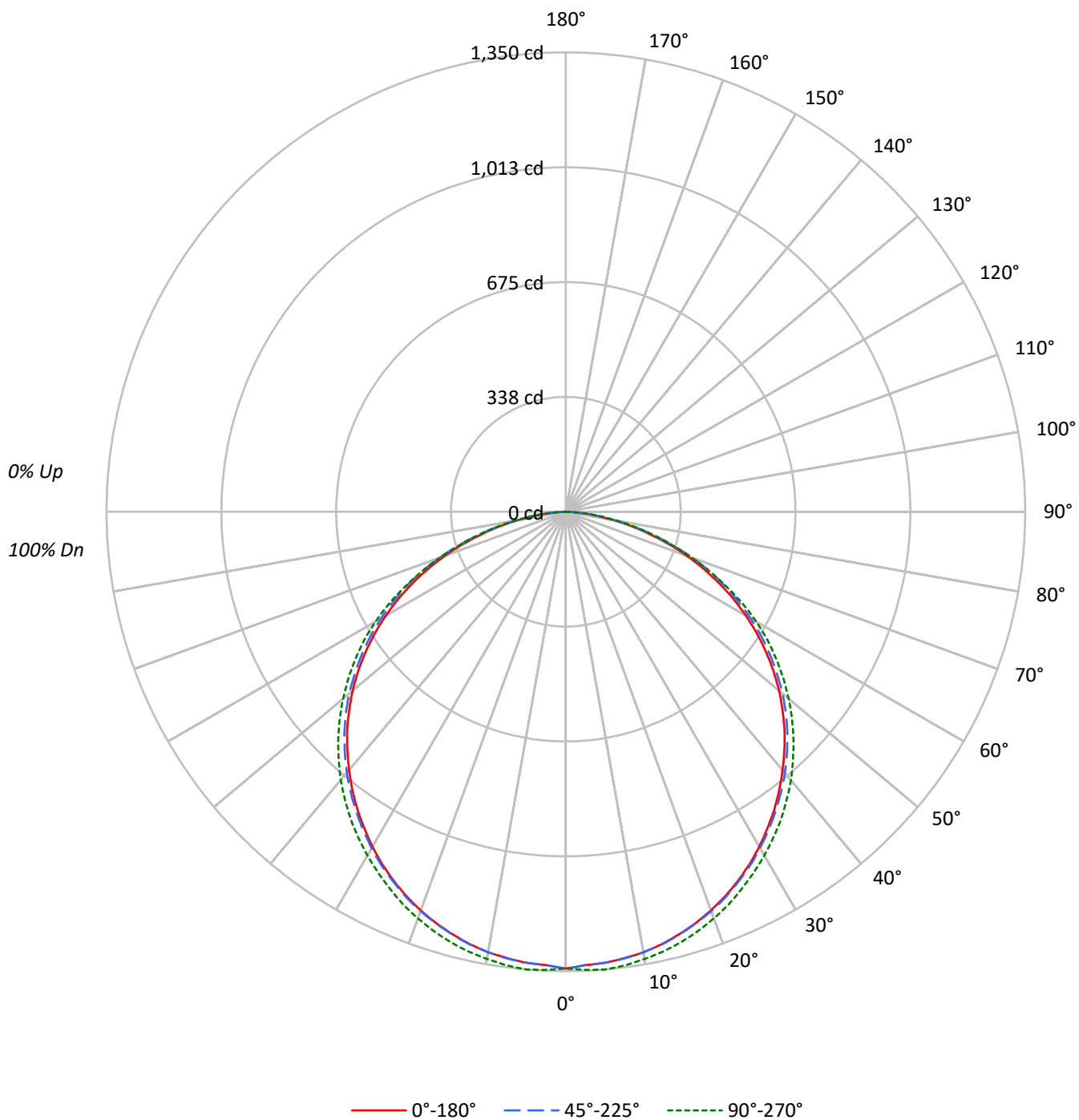
Lumens per Lamp: N/A
Luminaire Lumens: 3961.0 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.5
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: P1585680

CATALOG NUMBER: 14CZSP-SB-42-L850-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	109	104	99	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	43
6	70	56	47	40	68	55	46	40	53	46	40		52	45	40		50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39	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°	4523	4523	4523
5°	4501	4499	4567
10°	4499	4497	4566
15°	4485	4490	4568
20°	4472	4480	4561
25°	4449	4460	4546
30°	4422	4441	4538
35°	4394	4421	4536
40°	4360	4405	4528
45°	4333	4387	4509
50°	4289	4356	4480
55°	4222	4301	4436
60°	4120	4226	4358
65°	3965	4116	4159
70°	3729	3902	3878
75°	3348	3490	3514
80°	2765	2907	3060
85°	1852	2157	2273

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4509 cd/sqm

TEST NUMBER: P1585680

CATALOG NUMBER: 14CZSP-SB-42-L850-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.2	3.2
10°-20°	365.7	9.2
20°-30°	556.8	14.1
30°-40°	677.7	17.1
40°-50°	714.4	18.0
50°-60°	658.0	16.6
60°-70°	508.2	12.8
70°-80°	284.4	7.2
80°-90°	68.5	1.7
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°	1049.7	26.5
0°-40°	1727.4	43.6
0°-60°	3099.9	78.3
0°-90°	3961.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3961.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1342	1342	1342	1342	1342	
5°	1331	1350	1330	1332	1350	126
15°	1286	1303	1287	1294	1310	363
25°	1197	1214	1200	1208	1223	552
35°	1068	1084	1075	1088	1103	668
45°	909	922	921	935	946	701
55°	719	731	732	747	755	641
65°	497	512	516	521	522	491
75°	257	273	268	268	270	273
85°	48	53	56	62	59	61
90°	0	0	0	0	0	

TEST NUMBER: P1585680

CATALOG NUMBER: 14CZSP-SB-42-L850-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1342.2	1342.2	1342.2	1342.2	1342.2
2.5°	1333.7	1353.2	1333.7	1336.8	1347.7
5°	1330.7	1349.5	1330.1	1331.9	1350.1
7.5°	1322.8	1342.2	1324.0	1326.5	1344.1
10°	1314.9	1332.5	1314.3	1317.4	1334.4
12.5°	1301.6	1319.8	1302.8	1306.5	1323.4
15°	1285.8	1303.4	1287.0	1294.3	1309.5
17.5°	1267.6	1284.6	1268.8	1277.3	1291.9
20°	1247.0	1263.4	1249.4	1255.5	1271.9
22.5°	1222.8	1239.7	1226.4	1231.9	1249.4
25°	1196.7	1213.7	1199.7	1207.6	1222.8
27.5°	1168.2	1184.5	1172.4	1182.1	1195.5
30°	1136.6	1152.4	1141.5	1153.0	1166.3
32.5°	1102.7	1119.6	1108.7	1122.1	1135.4
35°	1068.1	1083.9	1074.8	1088.1	1102.7
37.5°	1030.5	1045.6	1039.0	1052.9	1066.3
40°	991.1	1008.0	1001.4	1015.9	1029.3
42.5°	950.4	966.8	961.3	976.5	988.0
45°	909.2	921.9	920.7	934.7	946.2
47.5°	863.7	879.5	877.0	891.0	901.3
50°	818.2	830.9	830.9	844.3	854.6
52.5°	769.1	781.8	781.8	797.6	806.1
55°	718.7	730.9	732.1	747.2	755.1
57.5°	665.4	678.1	680.5	695.7	703.0
60°	611.4	623.5	627.1	642.3	646.6
62.5°	555.0	569.5	571.3	583.5	585.9
65°	497.3	511.9	516.2	521.0	521.6
67.5°	438.5	453.7	457.9	457.9	457.9
70°	378.5	392.4	396.1	393.6	393.6
72.5°	317.8	333.0	331.2	328.7	329.9
75°	257.2	272.9	268.1	267.5	269.9
77.5°	198.9	214.1	206.2	211.1	211.7
80°	142.5	154.1	149.8	157.1	157.7
82.5°	91.6	98.9	100.1	106.1	104.3
85°	47.9	52.8	55.8	62.5	58.8
87.5°	15.2	20.0	18.2	21.2	16.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1585680

CATALOG NUMBER: 14CZSP-SB-42-L850-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	17.28	18.93	17.64	19.25	19.56	17.49	19.15	17.86	19.46	19.78
	3H	19.10	20.60	19.48	20.92	21.28	19.29	20.79	19.67	21.12	21.48
	4H	19.75	21.16	20.14	21.51	21.88	19.93	21.34	20.33	21.69	22.07
	6H	20.17	21.48	20.58	21.85	22.24	20.39	21.70	20.80	22.06	22.45
	8H	20.28	21.53	20.71	21.92	22.32	20.52	21.77	20.94	22.16	22.56
	12H	20.34	21.54	20.77	21.92	22.35	20.59	21.79	21.02	22.17	22.60
4H	2H	17.96	19.37	18.36	19.72	20.09	18.13	19.54	18.52	19.89	20.26
	3H	20.00	21.18	20.41	21.58	21.98	20.14	21.33	20.55	21.72	22.12
	4H	20.78	21.85	21.21	22.26	22.70	20.90	21.97	21.33	22.38	22.82
	6H	21.33	22.27	21.78	22.71	23.16	21.47	22.41	21.93	22.85	23.31
	8H	21.47	22.35	21.93	22.79	23.26	21.65	22.52	22.11	22.97	23.43
	12H	21.56	22.35	22.04	22.82	23.29	21.76	22.55	22.24	23.02	23.49
8H	4H	21.09	21.96	21.55	22.40	22.87	21.19	22.07	21.65	22.51	22.98
	6H	21.74	22.47	22.24	22.96	23.44	21.88	22.60	22.37	23.09	23.57
	8H	21.95	22.60	22.46	23.11	23.59	22.11	22.77	22.62	23.27	23.76
	12H	22.09	22.66	22.59	23.15	23.71	22.29	22.87	22.80	23.36	23.92
12H	4H	21.12	21.91	21.60	22.38	22.85	21.22	22.01	21.70	22.49	22.95
	6H	21.79	22.45	22.30	22.95	23.44	21.92	22.57	22.42	23.08	23.56
	8H	22.05	22.62	22.55	23.11	23.67	22.21	22.78	22.71	23.27	23.83