

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: P1585762

Luminaire Tested: 14CZSP-SB-52-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585762
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-52-L930-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 4500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

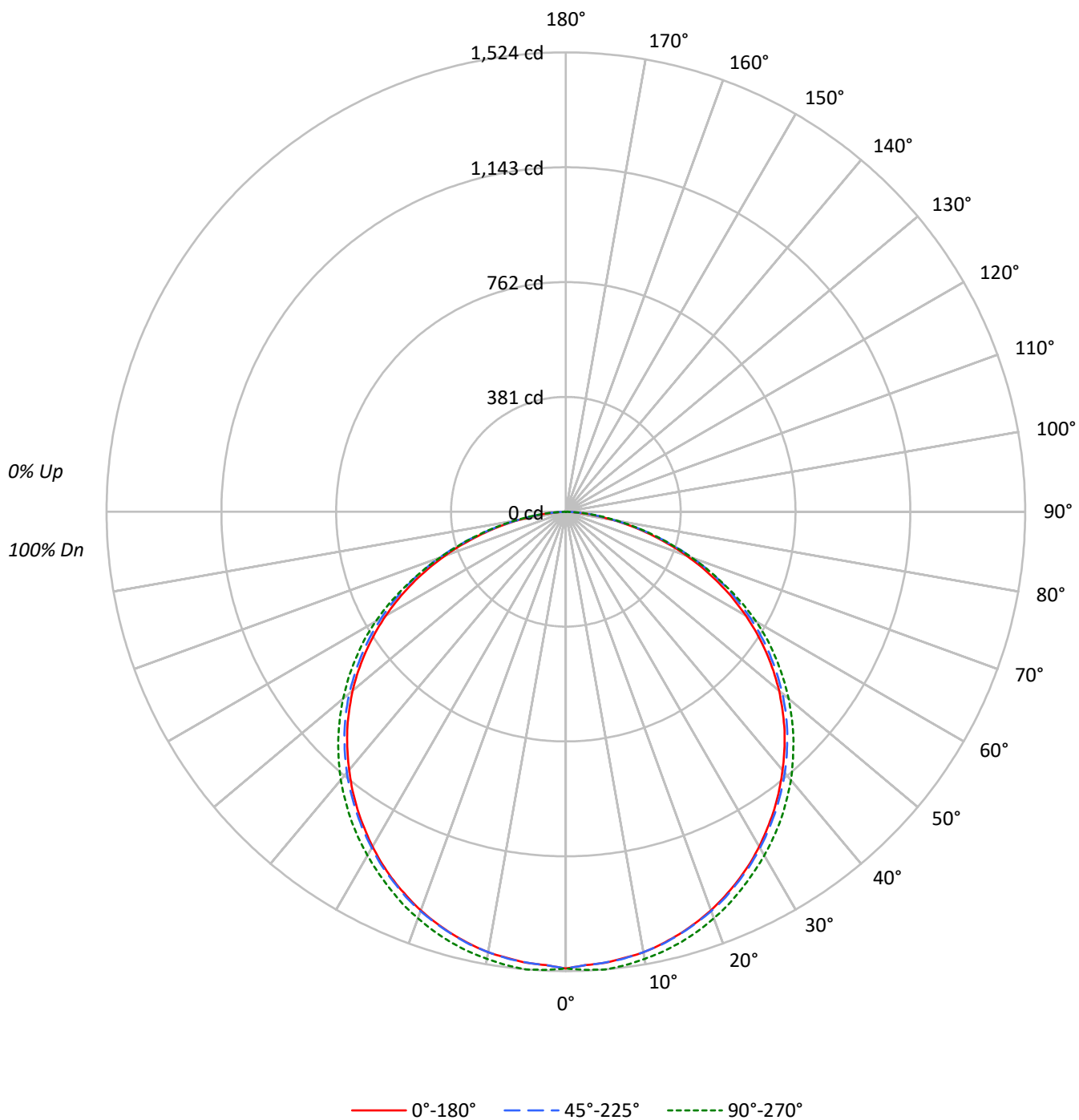
Lumens per Lamp: N/A
Luminaire Lumens: 4471.0 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 36.9
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

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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°	5105	5105	5105
5°	5080	5078	5155
10°	5078	5076	5154
15°	5063	5068	5156
20°	5047	5057	5148
25°	5022	5035	5131
30°	4992	5013	5122
35°	4959	4990	5120
40°	4921	4972	5110
45°	4890	4952	5089
50°	4841	4917	5057
55°	4766	4854	5007
60°	4651	4771	4918
65°	4476	4645	4695
70°	4209	4405	4377
75°	3779	3940	3967
80°	3122	3281	3454
85°	2092	2436	2567

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5089 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.6	3.2
10°-20°	412.7	9.2
20°-30°	628.5	14.1
30°-40°	764.9	17.1
40°-50°	806.4	18.0
50°-60°	742.7	16.6
60°-70°	573.6	12.8
70°-80°	321.0	7.2
80°-90°	77.4	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°	1184.9	26.5
0°-40°	1949.8	43.6
0°-60°	3499.0	78.3
0°-90°	4471.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4471.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1515	1515	1515	1515	1515	
5°	1502	1523	1501	1503	1524	143
15°	1451	1471	1453	1461	1478	410
25°	1351	1370	1354	1363	1380	623
35°	1206	1223	1213	1228	1245	754
45°	1026	1041	1039	1055	1068	791
55°	811	825	826	843	852	724
65°	561	578	583	588	589	555
75°	290	308	303	302	305	308
85°	54	60	63	70	66	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1515.1	1515.1	1515.1	1515.1	1515.1
2.5°	1505.5	1527.4	1505.5	1508.9	1521.2
5°	1502.0	1523.3	1501.4	1503.4	1524.0
7.5°	1493.1	1515.1	1494.5	1497.3	1517.1
10°	1484.2	1504.1	1483.6	1487.0	1506.2
12.5°	1469.2	1489.7	1470.6	1474.7	1493.8
15°	1451.4	1471.2	1452.8	1461.0	1478.1
17.5°	1430.8	1450.0	1432.2	1441.8	1458.2
20°	1407.6	1426.1	1410.3	1417.2	1435.6
22.5°	1380.2	1399.4	1384.3	1390.5	1410.3
25°	1350.7	1369.9	1354.2	1363.1	1380.2
27.5°	1318.6	1337.1	1323.4	1334.3	1349.4
30°	1283.0	1300.8	1288.4	1301.5	1316.5
32.5°	1244.6	1263.8	1251.5	1266.5	1281.6
35°	1205.6	1223.4	1213.1	1228.2	1244.6
37.5°	1163.2	1180.3	1172.7	1188.5	1203.6
40°	1118.7	1137.8	1130.3	1146.7	1161.8
42.5°	1072.8	1091.3	1085.1	1102.2	1115.2
45°	1026.2	1040.6	1039.2	1055.0	1068.0
47.5°	974.9	992.7	990.0	1005.7	1017.3
50°	923.5	937.9	937.9	953.0	964.6
52.5°	868.1	882.5	882.5	900.3	909.9
55°	811.3	825.0	826.3	843.4	852.3
57.5°	751.0	765.4	768.1	785.3	793.5
60°	690.1	703.8	707.9	725.0	729.8
62.5°	626.4	642.9	644.9	658.6	661.3
65°	561.4	577.8	582.6	588.1	588.8
67.5°	495.0	512.1	516.9	516.9	516.9
70°	427.2	442.9	447.1	444.3	444.3
72.5°	358.7	375.9	373.8	371.1	372.4
75°	290.3	308.1	302.6	301.9	304.7
77.5°	224.6	241.7	232.8	238.2	238.9
80°	160.9	173.9	169.1	177.3	178.0
82.5°	103.4	111.6	113.0	119.8	117.8
85°	54.1	59.6	63.0	70.5	66.4
87.5°	17.1	22.6	20.5	24.0	18.5
90°	0.0	0.0	0.0	0.0	0.0

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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	17.70	19.35	18.06	19.67	19.98	17.92	19.57	18.28	19.89	20.20
	3H	19.52	21.02	19.90	21.34	21.70	19.72	21.21	20.09	21.54	21.90
	4H	20.17	21.58	20.56	21.93	22.30	20.35	21.77	20.75	22.11	22.49
	6H	20.59	21.90	21.01	22.27	22.66	20.81	22.12	21.22	22.48	22.87
	8H	20.70	21.96	21.13	22.34	22.74	20.94	22.19	21.36	22.58	22.98
	12H	20.76	21.96	21.19	22.34	22.77	21.01	22.21	21.44	22.59	23.02
4H	2H	18.38	19.79	18.78	20.14	20.51	18.55	19.96	18.95	20.31	20.68
	3H	20.42	21.60	20.83	22.00	22.40	20.56	21.75	20.97	22.14	22.54
	4H	21.20	22.27	21.63	22.68	23.12	21.32	22.39	21.75	22.80	23.24
	6H	21.75	22.69	22.20	23.13	23.58	21.89	22.83	22.35	23.27	23.73
	8H	21.89	22.77	22.35	23.21	23.68	22.07	22.95	22.53	23.39	23.85
	12H	21.98	22.77	22.46	23.24	23.71	22.18	22.97	22.66	23.45	23.91
8H	4H	21.51	22.38	21.97	22.83	23.29	21.61	22.49	22.07	22.93	23.40
	6H	22.17	22.89	22.66	23.38	23.86	22.30	23.02	22.79	23.51	23.99
	8H	22.37	23.02	22.88	23.53	24.02	22.53	23.19	23.04	23.69	24.18
	12H	22.51	23.08	23.01	23.57	24.13	22.71	23.29	23.22	23.78	24.34
12H	4H	21.54	22.33	22.02	22.80	23.27	21.64	22.43	22.12	22.91	23.37
	6H	22.21	22.87	22.72	23.37	23.86	22.34	22.99	22.85	23.50	23.98
	8H	22.47	23.04	22.97	23.53	24.09	22.63	23.21	23.13	23.70	24.26