

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: P1585724

Luminaire Tested: 14CZSP-SB-47-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585724
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-47-L935-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

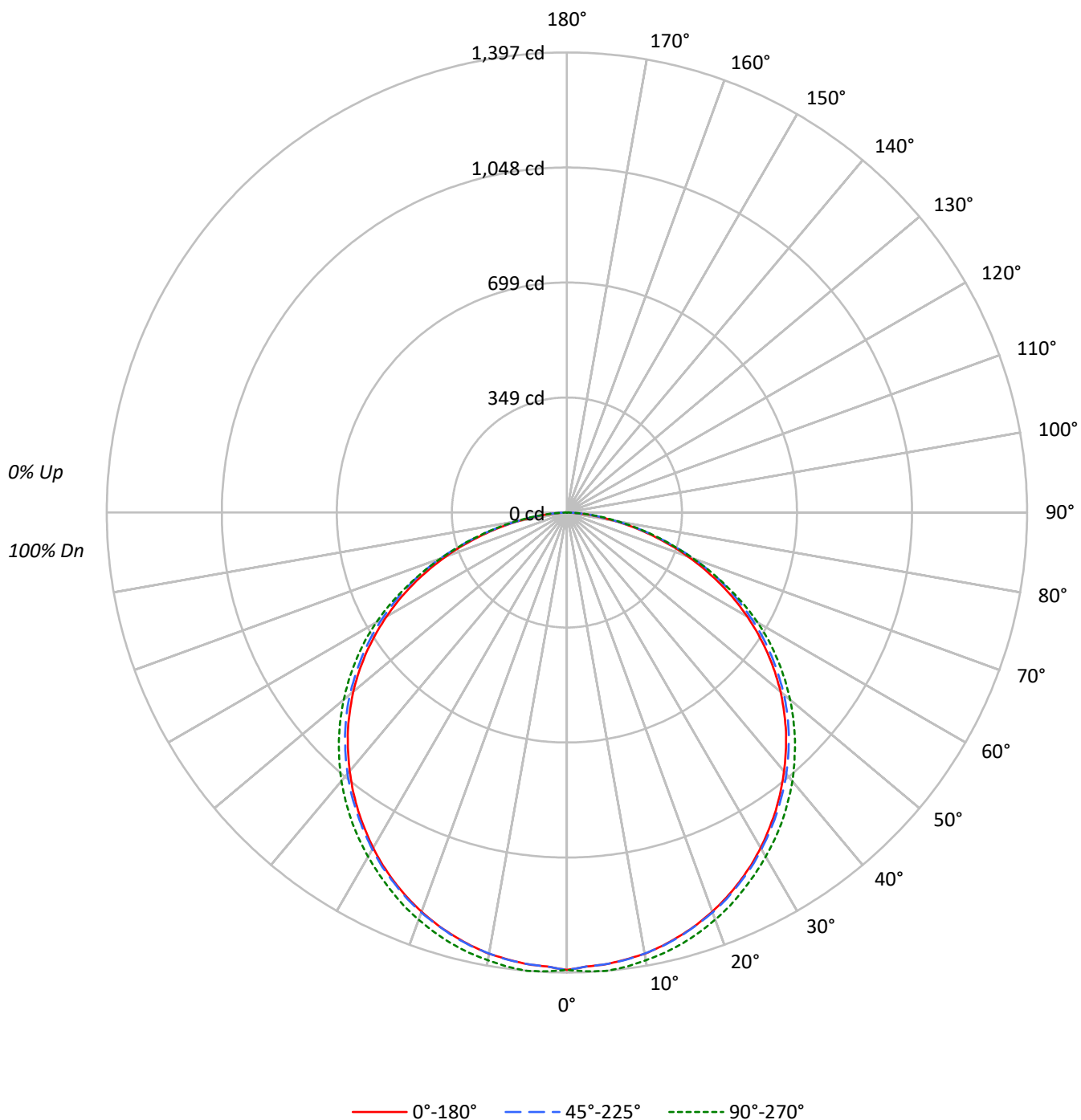
Lumens per Lamp: N/A
Luminaire Lumens: 4099.0 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 32.8
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°	4680	4680	4680
5°	4658	4656	4726
10°	4656	4654	4724
15°	4642	4646	4727
20°	4628	4636	4720
25°	4604	4616	4705
30°	4576	4596	4696
35°	4547	4575	4694
40°	4511	4558	4685
45°	4484	4540	4666
50°	4439	4508	4636
55°	4370	4451	4590
60°	4264	4374	4509
65°	4104	4258	4304
70°	3859	4038	4013
75°	3464	3611	3636
80°	2862	3008	3167
85°	1918	2231	2354

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4666 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.6	3.2
10°-20°	378.4	9.2
20°-30°	576.2	14.1
30°-40°	701.3	17.1
40°-50°	739.3	18.0
50°-60°	680.9	16.6
60°-70°	525.9	12.8
70°-80°	294.3	7.2
80°-90°	70.9	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°	1086.3	26.5
0°-40°	1787.6	43.6
0°-60°	3207.9	78.3
0°-90°	4099.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4099.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1389	1389	1389	1389	1389	
5°	1377	1396	1376	1378	1397	131
15°	1331	1349	1332	1339	1355	376
25°	1238	1256	1242	1250	1265	571
35°	1105	1122	1112	1126	1141	691
45°	941	954	953	967	979	725
55°	744	756	758	773	781	664
65°	515	530	534	539	540	508
75°	266	282	277	277	279	282
85°	50	55	58	65	61	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1389.0	1389.0	1389.0	1389.0	1389.0
2.5°	1380.2	1400.3	1380.2	1383.4	1394.6
5°	1377.1	1396.5	1376.4	1378.3	1397.2
7.5°	1368.9	1389.0	1370.2	1372.7	1390.9
10°	1360.8	1379.0	1360.1	1363.3	1380.8
12.5°	1346.9	1365.8	1348.2	1352.0	1369.5
15°	1330.6	1348.8	1331.9	1339.4	1355.1
17.5°	1311.8	1329.4	1313.1	1321.8	1336.9
20°	1290.5	1307.4	1293.0	1299.2	1316.2
22.5°	1265.4	1282.9	1269.1	1274.8	1293.0
25°	1238.4	1255.9	1241.5	1249.7	1265.4
27.5°	1208.9	1225.8	1213.3	1223.3	1237.1
30°	1176.2	1192.5	1181.2	1193.2	1207.0
32.5°	1141.1	1158.7	1147.4	1161.2	1175.0
35°	1105.3	1121.6	1112.2	1126.0	1141.1
37.5°	1066.4	1082.1	1075.2	1089.6	1103.4
40°	1025.6	1043.2	1036.3	1051.3	1065.1
42.5°	983.5	1000.5	994.8	1010.5	1022.4
45°	940.9	954.0	952.8	967.2	979.1
47.5°	893.8	910.1	907.6	922.0	932.7
50°	846.7	859.9	859.9	873.7	884.4
52.5°	795.9	809.0	809.0	825.4	834.2
55°	743.8	756.3	757.6	773.3	781.4
57.5°	688.5	701.7	704.2	719.9	727.5
60°	632.7	645.2	649.0	664.7	669.1
62.5°	574.3	589.4	591.3	603.8	606.3
65°	514.7	529.7	534.1	539.2	539.8
67.5°	453.8	469.5	473.9	473.9	473.9
70°	391.7	406.1	409.9	407.3	407.3
72.5°	328.9	344.6	342.7	340.2	341.4
75°	266.1	282.4	277.4	276.8	279.3
77.5°	205.9	221.6	213.4	218.4	219.1
80°	147.5	159.4	155.0	162.6	163.2
82.5°	94.8	102.3	103.6	109.8	108.0
85°	49.6	54.6	57.7	64.6	60.9
87.5°	15.7	20.7	18.8	22.0	16.9
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	17.40	19.05	17.76	19.37	19.68	17.61	19.27	17.98	19.58	19.90
	3H	19.22	20.72	19.59	21.04	21.40	19.41	20.91	19.79	21.24	21.60
	4H	19.86	21.28	20.26	21.62	22.00	20.05	21.46	20.45	21.81	22.19
	6H	20.29	21.60	20.70	21.97	22.36	20.50	21.81	20.91	22.18	22.57
	8H	20.40	21.65	20.83	22.04	22.44	20.64	21.89	21.06	22.28	22.67
	12H	20.46	21.65	20.88	22.04	22.46	20.71	21.91	21.14	22.29	22.72
4H	2H	18.08	19.49	18.47	19.84	20.21	18.25	19.66	18.64	20.01	20.38
	3H	20.12	21.30	20.53	21.70	22.10	20.26	21.44	20.67	21.84	22.24
	4H	20.90	21.97	21.33	22.38	22.82	21.02	22.09	21.45	22.50	22.94
	6H	21.45	22.38	21.90	22.82	23.28	21.59	22.53	22.05	22.97	23.42
	8H	21.59	22.47	22.05	22.91	23.38	21.77	22.64	22.23	23.09	23.55
	12H	21.68	22.47	22.16	22.94	23.41	21.88	22.67	22.36	23.14	23.61
8H	4H	21.20	22.08	21.66	22.52	22.99	21.31	22.19	21.77	22.63	23.10
	6H	21.86	22.59	22.36	23.08	23.55	21.99	22.72	22.49	23.21	23.68
	8H	22.07	22.72	22.58	23.23	23.71	22.23	22.89	22.74	23.39	23.88
	12H	22.20	22.78	22.71	23.27	23.83	22.41	22.99	22.92	23.48	24.04
12H	4H	21.24	22.02	21.71	22.50	22.97	21.34	22.13	21.82	22.60	23.07
	6H	21.91	22.56	22.42	23.07	23.55	22.04	22.69	22.54	23.20	23.68
	8H	22.17	22.74	22.67	23.23	23.79	22.33	22.90	22.83	23.39	23.95