

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: P1585728

Luminaire Tested: 14CZSP-SB-47-L945-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585728
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-L945-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 4000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

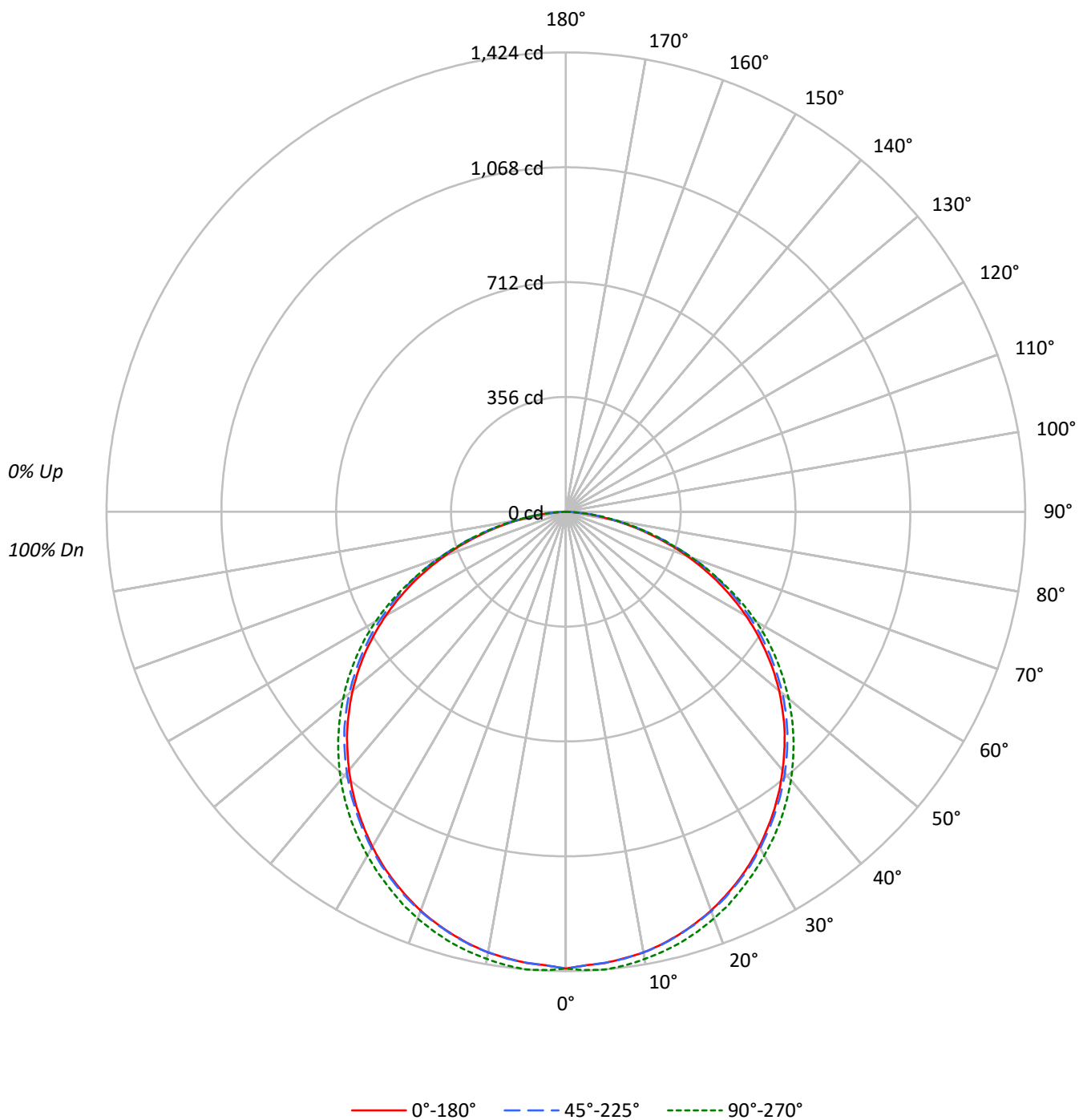
Lumens per Lamp: N/A
Luminaire Lumens: 4179.0 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
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	109	104	99	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	40	68	55	46	40	53	46	40		52	45	40		50
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4772	4772	4772
5°	4749	4747	4818
10°	4747	4745	4817
15°	4732	4737	4820
20°	4718	4727	4812
25°	4694	4706	4796
30°	4666	4686	4788
35°	4635	4664	4785
40°	4599	4647	4777
45°	4571	4629	4757
50°	4525	4596	4726
55°	4455	4538	4680
60°	4347	4459	4597
65°	4183	4342	4388
70°	3934	4117	4092
75°	3532	3682	3708
80°	2918	3068	3229
85°	1956	2277	2401

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4757 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.2	3.2
10°-20°	385.8	9.2
20°-30°	587.5	14.1
30°-40°	715.0	17.1
40°-50°	753.7	18.0
50°-60°	694.2	16.6
60°-70°	536.2	12.8
70°-80°	300.0	7.2
80°-90°	72.3	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°	1107.5	26.5
0°-40°	1822.5	43.6
0°-60°	3270.5	78.3
0°-90°	4179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4179.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1416	1416	1416	1416	1416	
5°	1404	1424	1403	1405	1424	133
15°	1357	1375	1358	1366	1382	383
25°	1262	1280	1266	1274	1290	582
35°	1127	1144	1134	1148	1163	705
45°	959	973	971	986	998	739
55°	758	771	772	788	797	677
65°	525	540	545	550	550	518
75°	271	288	283	282	285	288
85°	51	56	59	66	62	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1416.1	1416.1	1416.1	1416.1	1416.1
2.5°	1407.2	1427.6	1407.2	1410.4	1421.9
5°	1404.0	1423.8	1403.3	1405.2	1424.4
7.5°	1395.6	1416.1	1396.9	1399.5	1418.0
10°	1387.3	1405.9	1386.7	1389.9	1407.8
12.5°	1373.2	1392.4	1374.5	1378.4	1396.3
15°	1356.6	1375.2	1357.9	1365.6	1381.6
17.5°	1337.4	1355.3	1338.7	1347.6	1363.0
20°	1315.6	1332.9	1318.2	1324.6	1341.9
22.5°	1290.0	1308.0	1293.9	1299.6	1318.2
25°	1262.5	1280.4	1265.7	1274.1	1290.0
27.5°	1232.5	1249.7	1236.9	1247.2	1261.3
30°	1199.2	1215.8	1204.3	1216.5	1230.5
32.5°	1163.3	1181.3	1169.7	1183.8	1197.9
35°	1126.9	1143.5	1133.9	1148.0	1163.3
37.5°	1087.2	1103.2	1096.2	1110.9	1125.0
40°	1045.6	1063.5	1056.5	1071.8	1085.9
42.5°	1002.7	1020.0	1014.2	1030.2	1042.4
45°	959.2	972.7	971.4	986.1	998.3
47.5°	911.2	927.9	925.3	940.0	950.9
50°	863.2	876.7	876.7	890.7	901.6
52.5°	811.4	824.8	824.8	841.5	850.4
55°	758.3	771.1	772.4	788.4	796.7
57.5°	702.0	715.4	718.0	734.0	741.6
60°	645.0	657.8	661.7	677.7	682.1
62.5°	585.5	600.9	602.8	615.6	618.1
65°	524.7	540.1	544.6	549.7	550.3
67.5°	462.7	478.6	483.1	483.1	483.1
70°	399.3	414.0	417.9	415.3	415.3
72.5°	335.3	351.3	349.4	346.8	348.1
75°	271.3	288.0	282.8	282.2	284.8
77.5°	209.9	225.9	217.6	222.7	223.3
80°	150.4	162.5	158.1	165.7	166.4
82.5°	96.6	104.3	105.6	112.0	110.1
85°	50.6	55.7	58.9	65.9	62.1
87.5°	16.0	21.1	19.2	22.4	17.3
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	17.46	19.12	17.83	19.43	19.75	17.68	19.34	18.05	19.65	19.96
	3H	19.29	20.78	19.66	21.11	21.47	19.48	20.98	19.86	21.31	21.66
	4H	19.93	21.34	20.33	21.69	22.07	20.12	21.53	20.52	21.88	22.25
	6H	20.36	21.67	20.77	22.03	22.42	20.57	21.88	20.98	22.25	22.64
	8H	20.47	21.72	20.89	22.11	22.51	20.70	21.95	21.13	22.34	22.74
	12H	20.52	21.72	20.95	22.10	22.53	20.78	21.98	21.21	22.36	22.79
4H	2H	18.14	19.56	18.54	19.90	20.28	18.31	19.73	18.71	20.07	20.45
	3H	20.18	21.37	20.59	21.77	22.17	20.33	21.51	20.74	21.91	22.31
	4H	20.96	22.04	21.40	22.45	22.88	21.09	22.16	21.52	22.57	23.01
	6H	21.51	22.45	21.97	22.89	23.35	21.66	22.60	22.11	23.04	23.49
	8H	21.66	22.54	22.12	22.98	23.44	21.83	22.71	22.29	23.15	23.62
	12H	21.74	22.53	22.22	23.01	23.48	21.95	22.74	22.43	23.21	23.68
8H	4H	21.27	22.15	21.73	22.59	23.06	21.38	22.26	21.84	22.70	23.16
	6H	21.93	22.66	22.42	23.15	23.62	22.06	22.79	22.55	23.28	23.75
	8H	22.14	22.79	22.64	23.30	23.78	22.30	22.95	22.81	23.46	23.94
	12H	22.27	22.85	22.78	23.34	23.90	22.48	23.05	22.98	23.54	24.10
12H	4H	21.30	22.09	21.78	22.57	23.03	21.41	22.20	21.89	22.67	23.14
	6H	21.98	22.63	22.48	23.14	23.62	22.10	22.76	22.61	23.26	23.75
	8H	22.23	22.81	22.74	23.30	23.86	22.39	22.97	22.90	23.46	24.02