

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: P1585726

Luminaire Tested: 14CZSP-SB-47-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585726
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-L940-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

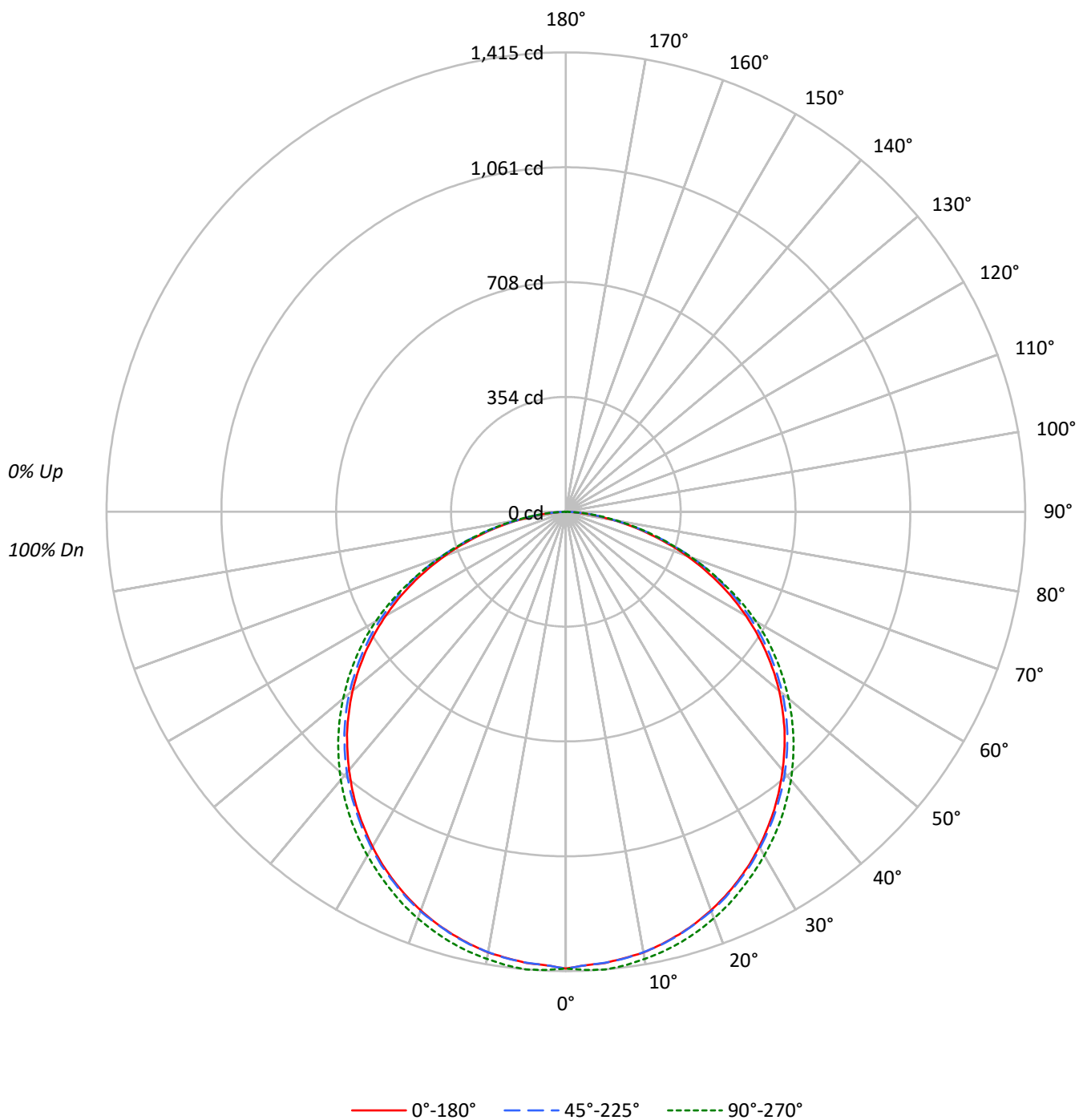
Lumens per Lamp: N/A
Luminaire Lumens: 4152.0 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	4741	4741	4741
5°	4718	4716	4787
10°	4716	4714	4786
15°	4702	4706	4788
20°	4687	4696	4781
25°	4664	4676	4765
30°	4636	4655	4757
35°	4605	4634	4754
40°	4569	4617	4746
45°	4541	4599	4726
50°	4496	4566	4696
55°	4426	4508	4650
60°	4319	4430	4567
65°	4156	4313	4360
70°	3908	4091	4065
75°	3510	3658	3683
80°	2899	3047	3208
85°	1941	2262	2385

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4726 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.3	3.2
10°-20°	383.3	9.2
20°-30°	583.7	14.1
30°-40°	710.4	17.1
40°-50°	748.9	18.0
50°-60°	689.8	16.6
60°-70°	532.7	12.8
70°-80°	298.1	7.2
80°-90°	71.9	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°	1100.3	26.5
0°-40°	1810.7	43.6
0°-60°	3249.3	78.3
0°-90°	4152.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4152.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1407	1407	1407	1407	1407	
5°	1395	1415	1394	1396	1415	133
15°	1348	1366	1349	1357	1373	381
25°	1254	1272	1258	1266	1282	578
35°	1120	1136	1127	1141	1156	700
45°	953	966	965	980	992	734
55°	753	766	767	783	792	672
65°	521	537	541	546	547	515
75°	270	286	281	280	283	286
85°	50	55	58	66	62	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1407.0	1407.0	1407.0	1407.0	1407.0
2.5°	1398.1	1418.4	1398.1	1401.2	1412.7
5°	1394.9	1414.6	1394.2	1396.2	1415.2
7.5°	1386.6	1407.0	1387.9	1390.4	1408.9
10°	1378.4	1396.8	1377.7	1380.9	1398.7
12.5°	1364.4	1383.4	1365.6	1369.4	1387.3
15°	1347.8	1366.3	1349.1	1356.7	1372.6
17.5°	1328.8	1346.6	1330.0	1338.9	1354.2
20°	1307.1	1324.3	1309.7	1316.0	1333.2
22.5°	1281.7	1299.5	1285.5	1291.3	1309.7
25°	1254.4	1272.2	1257.6	1265.8	1281.7
27.5°	1224.5	1241.7	1228.9	1239.1	1253.1
30°	1191.4	1208.0	1196.5	1208.6	1222.6
32.5°	1155.8	1173.6	1162.2	1176.2	1190.2
35°	1119.6	1136.1	1126.6	1140.6	1155.8
37.5°	1080.2	1096.1	1089.1	1103.7	1117.7
40°	1038.8	1056.7	1049.7	1064.9	1078.9
42.5°	996.3	1013.4	1007.7	1023.6	1035.7
45°	953.0	966.4	965.1	979.7	991.8
47.5°	905.3	921.9	919.3	933.9	944.8
50°	857.7	871.0	871.0	885.0	895.8
52.5°	806.2	819.5	819.5	836.0	844.9
55°	753.4	766.1	767.4	783.3	791.5
57.5°	697.4	710.8	713.3	729.2	736.9
60°	640.9	653.6	657.4	673.3	677.7
62.5°	581.7	597.0	598.9	611.6	614.2
65°	521.3	536.6	541.0	546.1	546.8
67.5°	459.7	475.6	480.0	480.0	480.0
70°	396.7	411.3	415.2	412.6	412.6
72.5°	333.1	349.0	347.1	344.6	345.9
75°	269.6	286.1	281.0	280.4	282.9
77.5°	208.5	224.4	216.2	221.2	221.9
80°	149.4	161.5	157.0	164.7	165.3
82.5°	96.0	103.6	104.9	111.3	109.4
85°	50.2	55.3	58.5	65.5	61.7
87.5°	15.9	21.0	19.1	22.3	17.2
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	17.44	19.10	17.81	19.41	19.73	17.66	19.31	18.02	19.63	19.94
	3H	19.26	20.76	19.64	21.09	21.45	19.46	20.96	19.83	21.28	21.64
	4H	19.91	21.32	20.31	21.67	22.04	20.10	21.51	20.49	21.86	22.23
	6H	20.34	21.65	20.75	22.01	22.40	20.55	21.86	20.96	22.22	22.61
	8H	20.45	21.70	20.87	22.09	22.48	20.68	21.93	21.10	22.32	22.72
	12H	20.50	21.70	20.93	22.08	22.51	20.76	21.96	21.19	22.34	22.77
4H	2H	18.12	19.53	18.52	19.88	20.26	18.29	19.70	18.69	20.05	20.42
	3H	20.16	21.35	20.57	21.74	22.14	20.30	21.49	20.71	21.89	22.29
	4H	20.94	22.01	21.37	22.43	22.86	21.06	22.13	21.49	22.55	22.98
	6H	21.49	22.43	21.94	22.87	23.32	21.64	22.57	22.09	23.01	23.47
	8H	21.64	22.51	22.10	22.96	23.42	21.81	22.69	22.27	23.13	23.59
	12H	21.72	22.51	22.20	22.98	23.45	21.93	22.71	22.40	23.19	23.66
8H	4H	21.25	22.13	21.71	22.57	23.03	21.36	22.23	21.82	22.68	23.14
	6H	21.91	22.64	22.40	23.12	23.60	22.04	22.77	22.53	23.25	23.73
	8H	22.11	22.77	22.62	23.27	23.76	22.28	22.93	22.79	23.44	23.92
	12H	22.25	22.83	22.75	23.32	23.88	22.45	23.03	22.96	23.52	24.08
12H	4H	21.28	22.07	21.76	22.54	23.01	21.39	22.17	21.86	22.65	23.12
	6H	21.95	22.61	22.46	23.11	23.60	22.08	22.74	22.59	23.24	23.73
	8H	22.21	22.79	22.72	23.28	23.84	22.37	22.95	22.88	23.44	24.00