

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: P1585766

Luminaire Tested: 14CZSP-SB-52-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585766
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-L940-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 4500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

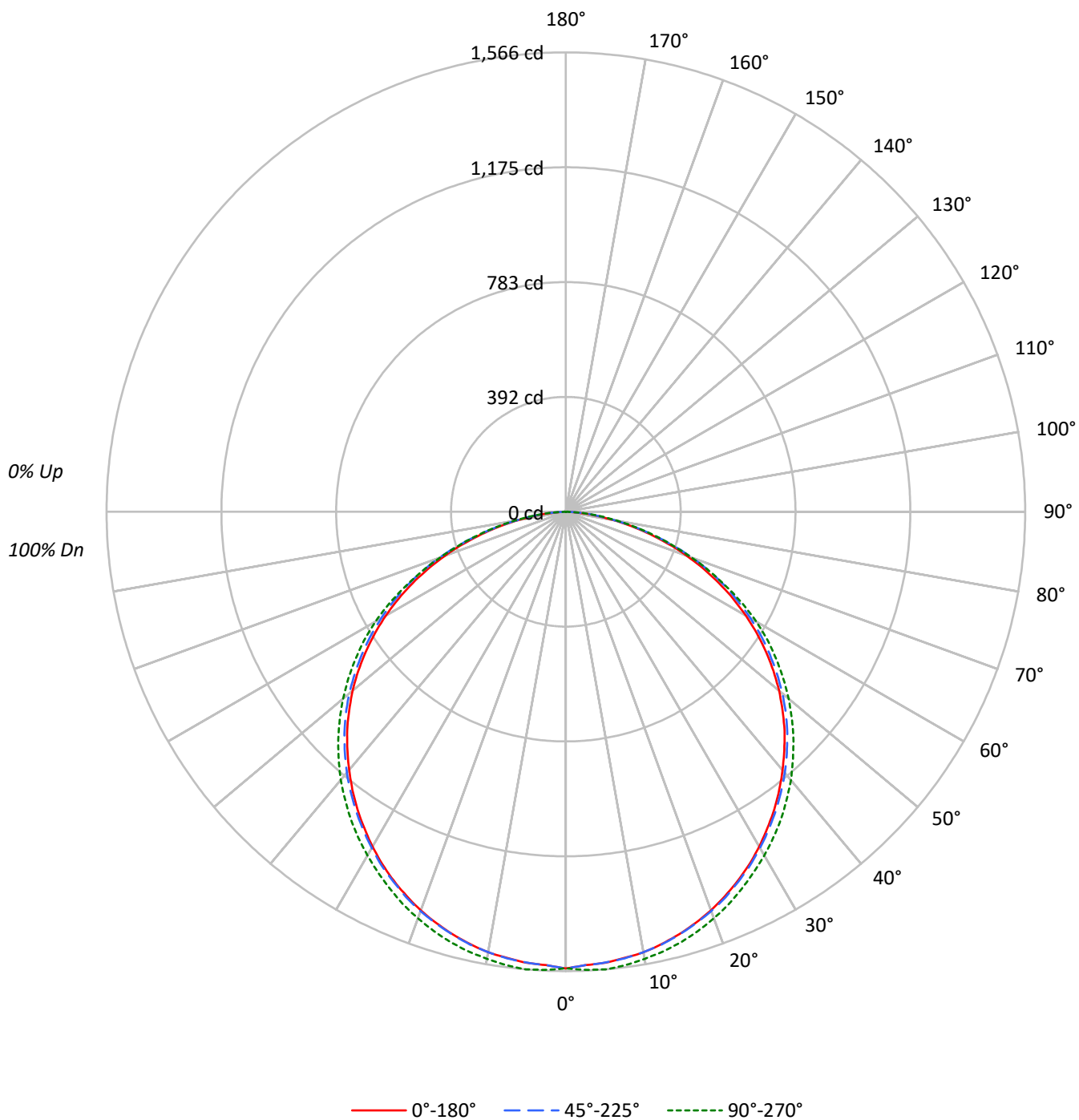
Lumens per Lamp: N/A
Luminaire Lumens: 4594.0 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
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°	5245	5245	5245
5°	5220	5218	5297
10°	5218	5216	5295
15°	5202	5207	5298
20°	5186	5196	5289
25°	5160	5173	5273
30°	5129	5151	5263
35°	5096	5127	5261
40°	5056	5109	5251
45°	5025	5088	5229
50°	4975	5052	5196
55°	4897	4988	5145
60°	4779	4902	5054
65°	4599	4773	4824
70°	4325	4526	4497
75°	3884	4048	4075
80°	3208	3373	3549
85°	2150	2501	2637

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5229 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.5	3.2
10°-20°	424.1	9.2
20°-30°	645.8	14.1
30°-40°	786.0	17.1
40°-50°	828.6	18.0
50°-60°	763.2	16.6
60°-70°	589.4	12.8
70°-80°	329.8	7.2
80°-90°	79.5	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°	1217.5	26.5
0°-40°	2003.5	43.6
0°-60°	3595.3	78.3
0°-90°	4594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4594.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1557	1557	1557	1557	1557	
5°	1543	1565	1543	1545	1566	147
15°	1491	1512	1493	1501	1519	421
25°	1388	1408	1391	1401	1418	640
35°	1239	1257	1246	1262	1279	775
45°	1054	1069	1068	1084	1097	813
55°	834	848	849	867	876	744
65°	577	594	599	604	605	570
75°	298	317	311	310	313	316
85°	56	61	65	72	68	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1556.7	1556.7	1556.7	1556.7	1556.7
2.5°	1546.9	1569.4	1546.9	1550.4	1563.1
5°	1543.4	1565.2	1542.7	1544.8	1565.9
7.5°	1534.2	1556.7	1535.6	1538.4	1558.8
10°	1525.1	1545.5	1524.4	1527.9	1547.6
12.5°	1509.6	1530.7	1511.0	1515.2	1534.9
15°	1491.3	1511.7	1492.7	1501.2	1518.8
17.5°	1470.2	1489.9	1471.6	1481.5	1498.4
20°	1446.3	1465.3	1449.1	1456.1	1475.1
22.5°	1418.2	1437.9	1422.4	1428.7	1449.1
25°	1387.9	1407.6	1391.4	1400.6	1418.2
27.5°	1354.8	1373.8	1359.8	1371.0	1386.5
30°	1318.3	1336.6	1323.9	1337.3	1352.7
32.5°	1278.9	1298.6	1285.9	1301.4	1316.9
35°	1238.8	1257.1	1246.5	1262.0	1278.9
37.5°	1195.2	1212.8	1205.0	1221.2	1236.7
40°	1149.4	1169.1	1161.4	1178.3	1193.8
42.5°	1102.3	1121.3	1115.0	1132.6	1145.9
45°	1054.5	1069.2	1067.8	1084.0	1097.4
47.5°	1001.7	1020.0	1017.2	1033.4	1045.3
50°	949.0	963.7	963.7	979.2	991.2
52.5°	892.0	906.7	906.7	925.0	934.9
55°	833.6	847.7	849.1	866.7	875.8
57.5°	771.7	786.5	789.3	806.9	815.3
60°	709.1	723.1	727.4	745.0	749.9
62.5°	643.7	660.5	662.7	676.7	679.5
65°	576.8	593.7	598.6	604.3	605.0
67.5°	508.6	526.2	531.1	531.1	531.1
70°	439.0	455.1	459.4	456.5	456.5
72.5°	368.6	386.2	384.1	381.3	382.7
75°	298.3	316.6	310.9	310.2	313.0
77.5°	230.7	248.3	239.2	244.8	245.5
80°	165.3	178.7	173.8	182.2	182.9
82.5°	106.2	114.7	116.1	123.1	121.0
85°	55.6	61.2	64.7	72.5	68.2
87.5°	17.6	23.2	21.1	24.6	19.0
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	17.79	19.45	18.16	19.76	20.08	18.01	19.67	18.37	19.98	20.29
	3H	19.61	21.11	19.99	21.44	21.80	19.81	21.31	20.19	21.63	21.99
	4H	20.26	21.67	20.66	22.02	22.40	20.45	21.86	20.85	22.21	22.58
	6H	20.69	22.00	21.10	22.36	22.75	20.90	22.21	21.31	22.57	22.96
	8H	20.80	22.05	21.22	22.44	22.84	21.03	22.28	21.46	22.67	23.07
	12H	20.85	22.05	21.28	22.43	22.86	21.11	22.31	21.54	22.69	23.12
4H	2H	18.47	19.88	18.87	20.23	20.61	18.64	20.05	19.04	20.40	20.78
	3H	20.51	21.70	20.92	22.10	22.49	20.66	21.84	21.06	22.24	22.64
	4H	21.29	22.37	21.72	22.78	23.21	21.41	22.49	21.84	22.90	23.33
	6H	21.84	22.78	22.30	23.22	23.68	21.99	22.93	22.44	23.37	23.82
	8H	21.99	22.87	22.45	23.31	23.77	22.16	23.04	22.62	23.48	23.95
	12H	22.07	22.86	22.55	23.34	23.80	22.28	23.07	22.76	23.54	24.01
8H	4H	21.60	22.48	22.06	22.92	23.38	21.71	22.59	22.17	23.03	23.49
	6H	22.26	22.99	22.75	23.48	23.95	22.39	23.12	22.88	23.61	24.08
	8H	22.47	23.12	22.97	23.62	24.11	22.63	23.28	23.14	23.79	24.27
	12H	22.60	23.18	23.11	23.67	24.23	22.81	23.38	23.31	23.87	24.43
12H	4H	21.63	22.42	22.11	22.89	23.36	21.74	22.53	22.22	23.00	23.47
	6H	22.31	22.96	22.81	23.47	23.95	22.43	23.09	22.94	23.59	24.08
	8H	22.56	23.14	23.07	23.63	24.19	22.72	23.30	23.23	23.79	24.35