

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: P1585767

Luminaire Tested: 14CZSP-SB-52-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585767
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-52-L940
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 4500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

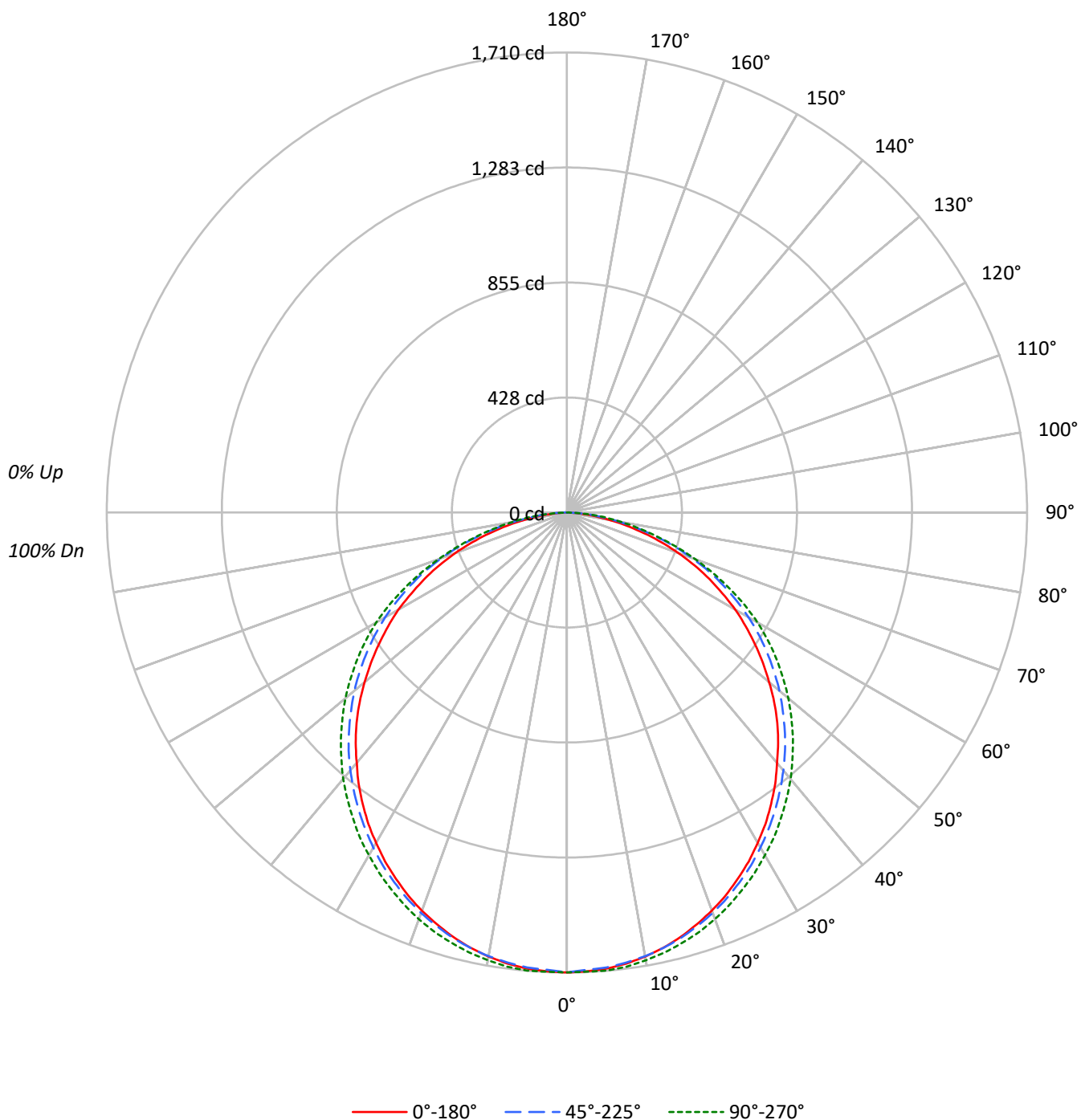
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4939.0 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
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	78	96	88	82	77	85	79	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5761	5761	5761
5°	5756	5742	5780
10°	5735	5730	5781
15°	5698	5711	5778
20°	5648	5681	5768
25°	5587	5639	5745
30°	5517	5597	5725
35°	5441	5552	5704
40°	5345	5504	5689
45°	5269	5455	5658
50°	5143	5404	5632
55°	5011	5333	5588
60°	4876	5255	5514
65°	4657	5116	5304
70°	4346	4886	5005
75°	3872	4428	4557
80°	3161	3838	4030
85°	2092	3054	3275

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5658 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.9	3.3
10°-20°	463.8	9.4
20°-30°	702.2	14.2
30°-40°	847.6	17.2
40°-50°	885.2	17.9
50°-60°	809.8	16.4
60°-70°	626.0	12.7
70°-80°	354.4	7.2
80°-90°	88.1	1.8
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°	1328.0	26.9
0°-40°	2175.6	44.0
0°-60°	3870.5	78.4
0°-90°	4939.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4939.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1710	1710	1710	1710	1710	
5°	1702	1714	1698	1699	1709	162
15°	1634	1648	1637	1645	1656	461
25°	1503	1522	1517	1531	1545	692
35°	1323	1341	1350	1372	1387	827
45°	1106	1127	1145	1174	1187	851
55°	853	879	908	936	951	763
65°	584	608	642	661	665	577
75°	297	323	340	349	350	315
85°	54	63	79	82	85	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1709.6	1709.6	1709.6	1709.6	1709.6
2.5°	1707.5	1719.6	1701.1	1704.6	1708.2
5°	1701.8	1713.9	1697.5	1698.9	1708.9
7.5°	1691.1	1704.6	1687.5	1690.4	1702.5
10°	1676.2	1689.7	1674.7	1677.6	1689.7
12.5°	1657.0	1670.5	1657.7	1661.9	1675.4
15°	1633.5	1647.7	1637.0	1644.9	1656.2
17.5°	1605.0	1622.8	1611.4	1623.5	1634.9
20°	1575.1	1592.9	1584.4	1595.1	1608.6
22.5°	1541.0	1558.8	1552.4	1563.8	1578.7
25°	1502.6	1521.8	1516.8	1531.0	1545.3
27.5°	1462.7	1481.2	1479.8	1495.5	1510.4
30°	1417.9	1437.8	1438.5	1457.0	1471.3
32.5°	1373.1	1390.9	1395.1	1415.8	1432.1
35°	1322.6	1341.1	1349.6	1372.4	1386.6
37.5°	1271.3	1292.0	1301.2	1326.1	1341.1
40°	1215.1	1238.6	1251.4	1277.8	1293.4
42.5°	1161.8	1183.1	1200.2	1226.5	1240.8
45°	1105.6	1126.9	1144.7	1173.9	1187.4
47.5°	1045.1	1068.6	1087.8	1116.3	1131.2
50°	981.1	1006.7	1030.9	1058.6	1074.3
52.5°	917.8	942.7	970.4	997.4	1013.1
55°	853.0	878.6	907.8	936.3	951.2
57.5°	787.6	813.2	845.2	870.8	886.5
60°	723.5	747.0	779.7	805.4	818.2
62.5°	651.0	678.0	711.4	737.1	744.2
65°	584.1	608.3	641.7	660.9	665.2
67.5°	513.0	537.1	570.6	581.2	587.7
70°	441.1	466.7	495.9	503.0	508.0
72.5°	368.5	394.9	417.6	424.7	429.0
75°	297.4	323.0	340.1	348.6	350.0
77.5°	228.4	251.9	267.5	277.5	277.5
80°	162.9	180.7	197.8	208.5	207.7
82.5°	103.9	117.4	135.2	143.0	148.0
85°	54.1	62.6	79.0	82.5	84.7
87.5°	17.1	22.1	28.5	23.5	22.8
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	17.76	19.41	18.13	19.73	20.04	18.30	19.96	18.67	20.27	20.58
	3H	19.54	21.03	19.91	21.36	21.72	20.16	21.66	20.54	21.98	22.34
	4H	20.16	21.57	20.56	21.92	22.29	20.84	22.24	21.23	22.59	22.97
	6H	20.57	21.87	20.98	22.23	22.63	21.32	22.63	21.73	22.99	23.38
	8H	20.67	21.91	21.09	22.30	22.70	21.48	22.73	21.90	23.11	23.51
	12H	20.71	21.91	21.14	22.29	22.72	21.58	22.77	22.01	23.15	23.58
4H	2H	18.50	19.91	18.90	20.26	20.63	18.92	20.33	19.32	20.68	21.05
	3H	20.49	21.68	20.90	22.07	22.47	21.00	22.18	21.41	22.58	22.98
	4H	21.24	22.31	21.68	22.73	23.16	21.80	22.87	22.23	23.29	23.72
	6H	21.76	22.70	22.22	23.14	23.59	22.42	23.35	22.87	23.79	24.25
	8H	21.90	22.77	22.36	23.22	23.68	22.62	23.50	23.08	23.94	24.40
	12H	21.98	22.76	22.45	23.24	23.71	22.76	23.55	23.24	24.02	24.49
8H	4H	21.60	22.47	22.06	22.92	23.38	22.09	22.97	22.55	23.41	23.87
	6H	22.23	22.96	22.72	23.45	23.92	22.83	23.55	23.32	24.04	24.52
	8H	22.43	23.08	22.93	23.58	24.07	23.10	23.75	23.61	24.26	24.74
	12H	22.55	23.13	23.06	23.62	24.18	23.31	23.88	23.81	24.37	24.93
12H	4H	21.64	22.43	22.12	22.90	23.37	22.12	22.90	22.60	23.38	23.85
	6H	22.30	22.95	22.80	23.46	23.94	22.87	23.52	23.38	24.03	24.51
	8H	22.55	23.12	23.05	23.61	24.17	23.20	23.77	23.70	24.26	24.82