

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: P1584367

Luminaire Tested: 14CZSP-52-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584367
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2603-724-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-52-L940
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 4500 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

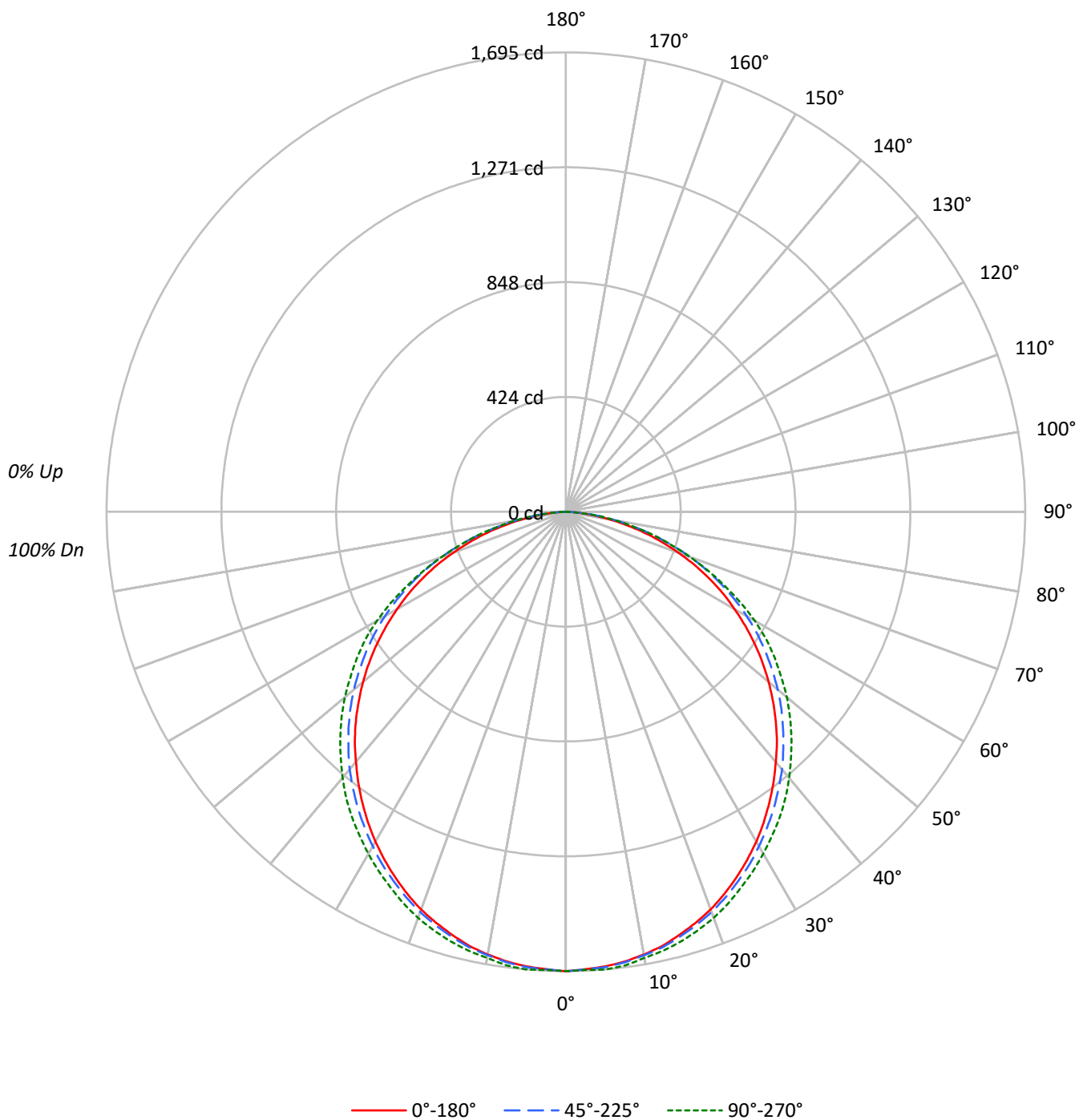
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4891.1 lumens
Efficiency: N/A
Efficacy: 132.6 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			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	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69	65	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	53		62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5712	5712	5712
5°	5694	5704	5734
10°	5676	5686	5721
15°	5640	5665	5726
20°	5600	5636	5719
25°	5537	5591	5688
30°	5467	5546	5670
35°	5386	5499	5661
40°	5300	5460	5638
45°	5224	5403	5611
50°	5123	5351	5579
55°	5001	5281	5529
60°	4847	5199	5424
65°	4659	5053	5156
70°	4371	4800	4800
75°	3927	4361	4380
80°	3237	3687	3687
85°	2242	2691	2354

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5611 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.6	3.3
10°-20°	459.8	9.4
20°-30°	696.0	14.2
30°-40°	840.2	17.2
40°-50°	877.8	17.9
50°-60°	804.1	16.4
60°-70°	620.0	12.7
70°-80°	349.8	7.2
80°-90°	82.8	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°	1316.4	26.9
0°-40°	2156.6	44.1
0°-60°	3838.5	78.5
0°-90°	4891.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4891.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1695	1695	1695	1695	1695	
5°	1684	1695	1686	1689	1695	160
15°	1617	1627	1624	1637	1641	456
25°	1489	1502	1504	1524	1530	686
35°	1309	1327	1337	1366	1376	819
45°	1096	1115	1134	1167	1177	845
55°	851	873	899	932	941	760
65°	584	603	634	655	647	578
75°	302	325	335	344	336	320
85°	58	65	70	74	61	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1695.1	1695.1	1695.1	1695.1	1695.1
2.5°	1689.3	1700.9	1689.3	1695.1	1692.2
5°	1683.5	1695.1	1686.4	1689.3	1695.1
7.5°	1673.3	1684.9	1676.2	1680.6	1687.8
10°	1658.8	1670.4	1661.7	1669.0	1671.9
12.5°	1641.4	1651.6	1645.8	1654.5	1658.8
15°	1616.8	1626.9	1624.0	1637.1	1641.4
17.5°	1590.7	1602.3	1599.4	1615.3	1619.7
20°	1561.7	1571.8	1571.8	1586.3	1595.0
22.5°	1526.9	1538.5	1539.9	1555.9	1564.6
25°	1489.2	1502.2	1503.7	1524.0	1529.8
27.5°	1448.6	1461.6	1467.4	1489.2	1495.0
30°	1405.1	1418.1	1425.4	1450.0	1457.3
32.5°	1358.7	1374.6	1381.9	1409.4	1416.7
35°	1309.4	1326.8	1336.9	1365.9	1376.1
37.5°	1258.6	1276.0	1289.1	1319.5	1331.1
40°	1205.0	1223.8	1241.2	1271.7	1281.8
42.5°	1152.8	1171.6	1187.6	1219.5	1229.6
45°	1096.2	1115.1	1133.9	1167.3	1177.4
47.5°	1036.8	1057.1	1078.8	1109.3	1122.3
50°	977.3	997.6	1020.8	1052.7	1064.3
52.5°	915.0	936.7	959.9	993.3	1002.0
55°	851.2	872.9	899.0	932.4	941.1
57.5°	785.9	809.1	836.7	868.6	877.3
60°	719.2	742.4	771.4	801.9	804.8
62.5°	654.0	674.3	703.3	732.3	727.9
65°	584.4	603.2	633.7	655.4	646.7
67.5°	514.8	535.1	562.6	578.6	567.0
70°	443.7	465.5	487.2	498.8	487.2
72.5°	372.7	395.9	411.8	419.1	408.9
75°	301.6	324.8	335.0	343.7	336.4
77.5°	233.5	255.2	259.6	269.7	259.6
80°	166.8	187.1	190.0	200.1	190.0
82.5°	107.3	120.4	126.2	134.9	124.7
85°	58.0	65.3	69.6	74.0	60.9
87.5°	20.3	23.2	20.3	17.4	7.3
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	17.77	19.42	18.13	19.73	20.04	18.31	19.96	18.68	20.27	20.59
	3H	19.55	21.05	19.93	21.37	21.73	20.12	21.61	20.49	21.94	22.30
	4H	20.19	21.60	20.59	21.95	22.32	20.76	22.17	21.16	22.52	22.89
	6H	20.62	21.92	21.03	22.29	22.68	21.20	22.51	21.61	22.87	23.26
	8H	20.73	21.97	21.15	22.36	22.76	21.33	22.57	21.75	22.96	23.36
	12H	20.78	21.98	21.21	22.36	22.79	21.38	22.58	21.81	22.96	23.39
4H	2H	18.49	19.90	18.89	20.25	20.62	18.92	20.33	19.32	20.67	21.05
	3H	20.50	21.68	20.91	22.08	22.48	20.95	22.14	21.36	22.53	22.93
	4H	21.27	22.34	21.70	22.75	23.18	21.73	22.80	22.17	23.22	23.65
	6H	21.81	22.75	22.27	23.19	23.64	22.30	23.24	22.76	23.68	24.13
	8H	21.96	22.83	22.42	23.27	23.74	22.47	23.34	22.93	23.78	24.25
	12H	22.04	22.83	22.52	23.30	23.77	22.56	23.35	23.04	23.82	24.29
8H	4H	21.61	22.48	22.07	22.93	23.39	22.02	22.90	22.48	23.34	23.80
	6H	22.27	23.00	22.76	23.48	23.96	22.71	23.43	23.20	23.92	24.39
	8H	22.48	23.13	22.98	23.63	24.12	22.94	23.59	23.45	24.09	24.58
	12H	22.61	23.19	23.12	23.68	24.24	23.09	23.66	23.59	24.15	24.71
12H	4H	21.65	22.43	22.13	22.91	23.38	22.05	22.83	22.53	23.31	23.78
	6H	22.33	22.98	22.83	23.48	23.97	22.75	23.40	23.25	23.90	24.39
	8H	22.58	23.16	23.09	23.65	24.21	23.03	23.61	23.54	24.10	24.66