

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: P1584660

Luminaire Tested: 14CZSP-A-52-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-A-52-L850-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 4500 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

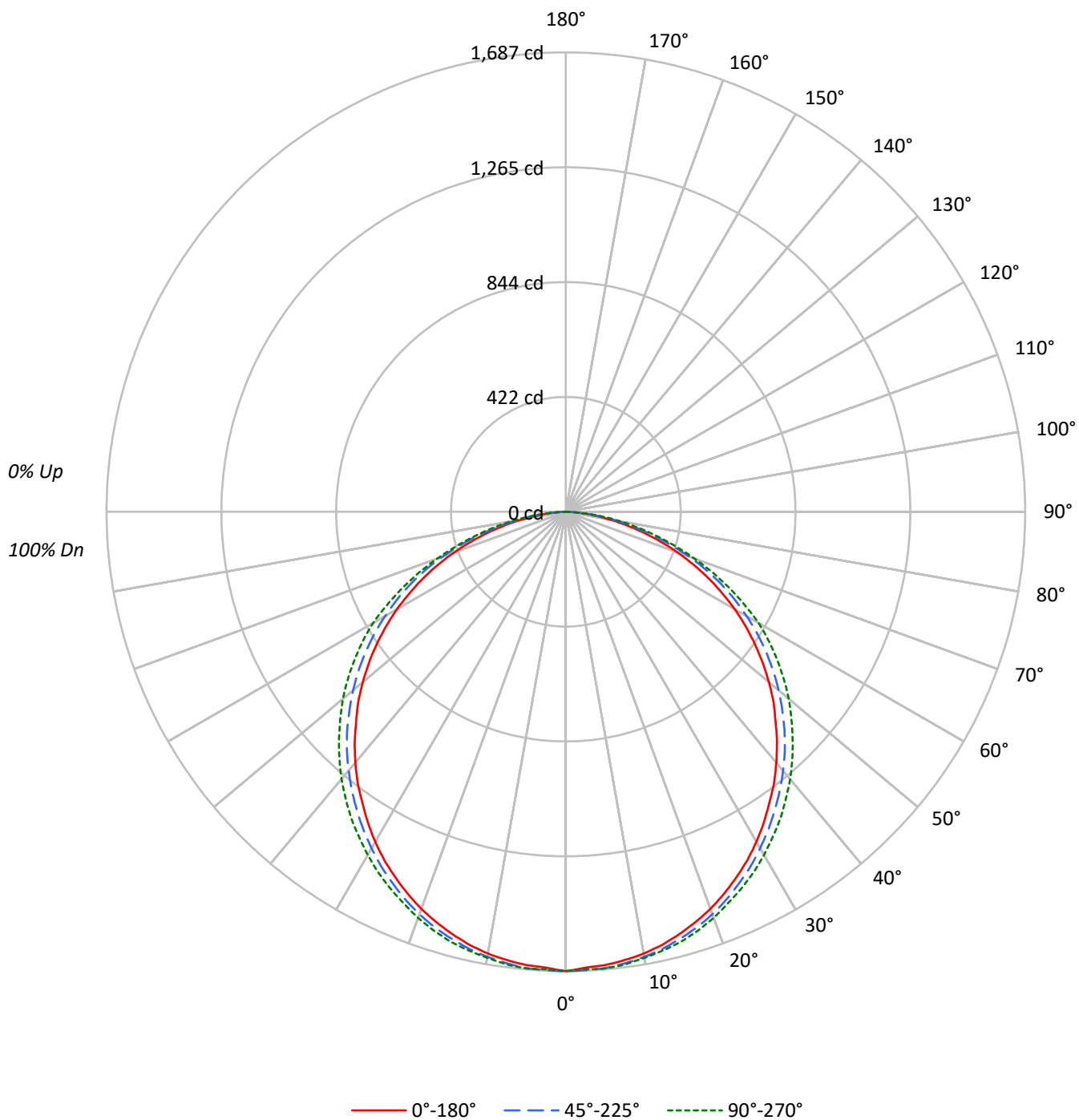
Lumens per Lamp: N/A
Luminaire Lumens: 4877.0 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	41	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	59	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°	5684	5684	5684
5°	5653	5689	5694
10°	5637	5679	5691
15°	5605	5662	5702
20°	5565	5640	5691
25°	5509	5597	5674
30°	5446	5553	5662
35°	5359	5504	5652
40°	5289	5460	5636
45°	5189	5411	5614
50°	5103	5347	5603
55°	4981	5271	5567
60°	4828	5167	5510
65°	4613	5025	5283
70°	4300	4746	4958
75°	3841	4281	4523
80°	3147	3607	3957
85°	2111	2637	2942

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5614 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.8	3.3
10°-20°	458.0	9.4
20°-30°	693.6	14.2
30°-40°	837.5	17.2
40°-50°	875.3	17.9
50°-60°	802.1	16.4
60°-70°	619.1	12.7
70°-80°	348.3	7.1
80°-90°	83.3	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°	1311.4	26.9
0°-40°	2148.9	44.1
0°-60°	3826.3	78.5
0°-90°	4877.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4877.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1687	1687	1687	1687	1687	
5°	1671	1683	1682	1683	1683	159
15°	1607	1620	1623	1630	1635	453
25°	1482	1495	1505	1513	1526	683
35°	1303	1319	1338	1356	1374	816
45°	1089	1110	1136	1159	1178	842
55°	848	870	897	925	948	757
65°	579	604	630	655	663	572
75°	295	322	329	342	347	313
85°	55	62	68	75	76	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1687.0	1687.0	1687.0	1687.0	1687.0
2.5°	1675.5	1688.4	1685.5	1689.8	1681.9
5°	1671.2	1683.4	1681.9	1683.4	1683.4
7.5°	1660.4	1673.3	1672.6	1674.8	1676.2
10°	1647.5	1659.7	1659.7	1661.8	1663.3
12.5°	1629.5	1642.5	1643.9	1647.5	1650.3
15°	1606.6	1619.5	1623.1	1629.5	1634.6
17.5°	1580.7	1594.4	1600.1	1606.6	1613.0
20°	1552.0	1564.2	1572.8	1577.8	1587.2
22.5°	1518.3	1531.9	1541.2	1546.3	1556.3
25°	1481.7	1494.6	1505.3	1513.2	1526.2
27.5°	1442.9	1455.8	1468.7	1478.1	1493.1
30°	1399.8	1413.5	1427.1	1441.5	1455.1
32.5°	1353.2	1368.9	1384.0	1399.8	1414.9
35°	1302.9	1319.4	1338.1	1356.0	1374.0
37.5°	1256.2	1271.3	1290.7	1310.1	1328.0
40°	1202.4	1218.9	1241.2	1262.7	1281.4
42.5°	1147.8	1165.8	1190.2	1211.0	1231.1
45°	1089.0	1110.5	1135.6	1158.6	1178.0
47.5°	1034.4	1053.1	1078.2	1103.3	1123.4
50°	973.4	994.2	1020.1	1046.6	1068.9
52.5°	911.7	933.2	959.8	986.3	1009.3
55°	847.8	870.0	897.3	925.3	947.6
57.5°	782.5	806.2	834.1	862.1	884.4
60°	716.4	740.1	766.7	797.5	817.6
62.5°	647.5	674.1	699.2	727.9	740.1
65°	578.6	603.7	630.3	655.4	662.6
67.5°	508.2	534.1	557.8	574.3	583.6
70°	436.5	464.5	481.7	497.5	503.2
72.5°	365.4	393.4	403.4	418.5	424.3
75°	295.0	322.3	328.8	342.4	347.4
77.5°	226.8	252.0	254.1	269.9	274.2
80°	162.2	182.3	185.9	201.0	203.9
82.5°	104.1	118.4	123.5	136.4	140.7
85°	54.6	62.5	68.2	74.7	76.1
87.5°	17.9	22.3	18.7	19.4	17.9
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	17.75	19.40	18.12	19.71	20.03	18.29	19.94	18.65	20.25	20.57
	3H	19.53	21.02	19.90	21.35	21.71	20.15	21.64	20.52	21.97	22.33
	4H	20.15	21.56	20.55	21.91	22.28	20.82	22.22	21.21	22.57	22.94
	6H	20.56	21.87	20.97	22.23	22.62	21.29	22.60	21.70	22.96	23.35
	8H	20.66	21.91	21.09	22.30	22.70	21.44	22.68	21.86	23.07	23.47
	12H	20.71	21.91	21.14	22.29	22.72	21.52	22.72	21.95	23.10	23.53
4H	2H	18.47	19.88	18.87	20.23	20.60	18.90	20.30	19.29	20.65	21.03
	3H	20.47	21.65	20.88	22.05	22.45	20.97	22.15	21.38	22.55	22.95
	4H	21.23	22.29	21.66	22.71	23.14	21.76	22.83	22.20	23.25	23.68
	6H	21.75	22.69	22.21	23.13	23.58	22.37	23.30	22.82	23.74	24.20
	8H	21.89	22.77	22.35	23.21	23.67	22.56	23.43	23.02	23.87	24.34
	12H	21.97	22.76	22.45	23.23	23.70	22.68	23.46	23.16	23.94	24.41
8H	4H	21.56	22.44	22.02	22.88	23.34	22.04	22.91	22.50	23.36	23.82
	6H	22.20	22.93	22.70	23.42	23.89	22.75	23.48	23.25	23.97	24.44
	8H	22.40	23.05	22.91	23.56	24.05	23.01	23.66	23.52	24.17	24.65
	12H	22.53	23.11	23.04	23.60	24.16	23.19	23.77	23.70	24.26	24.82
12H	4H	21.60	22.39	22.08	22.86	23.33	22.06	22.85	22.54	23.32	23.79
	6H	22.26	22.91	22.77	23.42	23.90	22.79	23.44	23.30	23.95	24.43
	8H	22.51	23.09	23.02	23.58	24.14	23.10	23.67	23.60	24.16	24.72