

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: P1584353

Luminaire Tested: 14CZSP-52-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584353
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-L830
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 4500 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

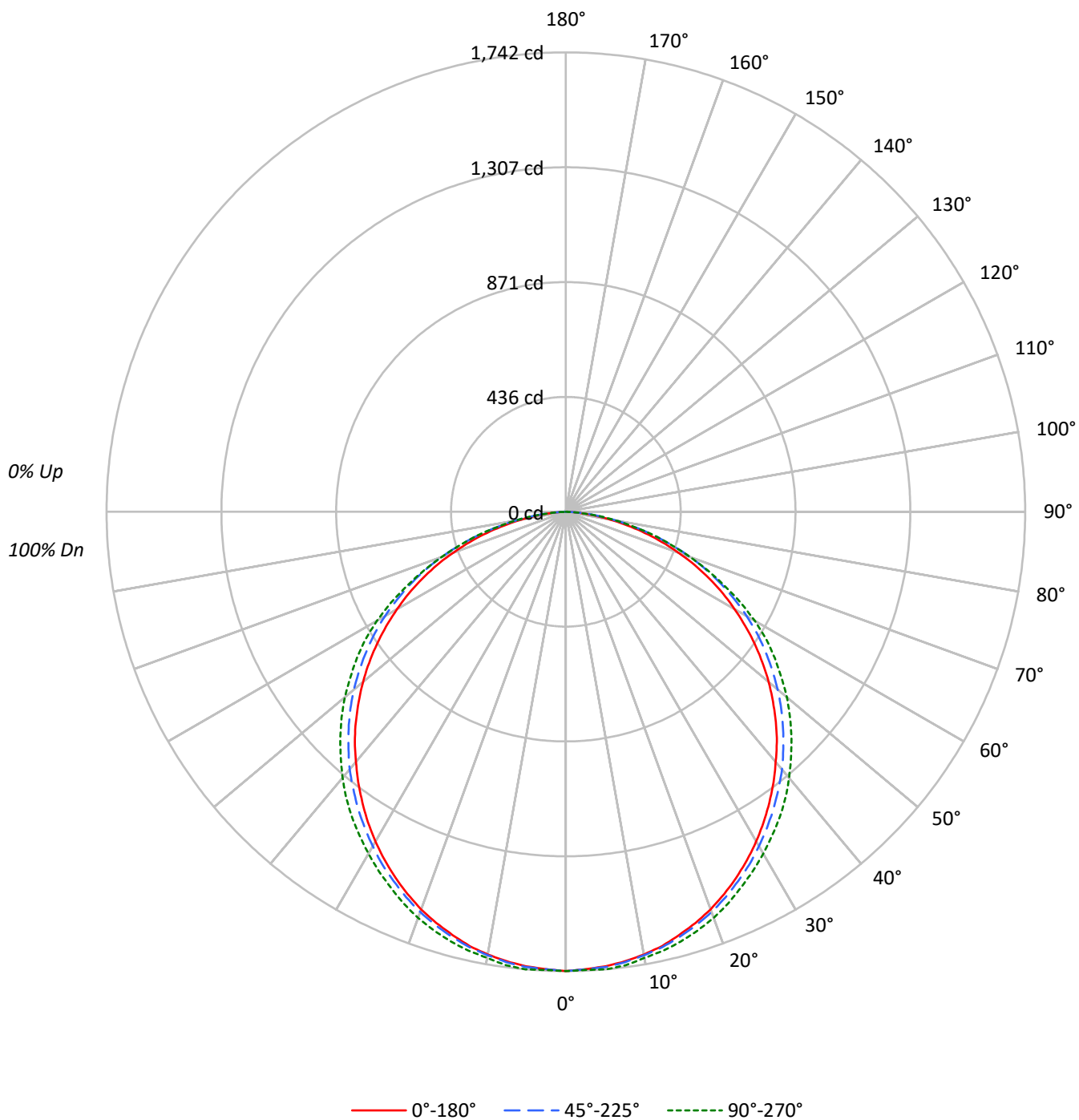
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5026.0 lumens
Efficiency: N/A
Efficacy: 136.2 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			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°	5869	5869	5869
5°	5851	5861	5892
10°	5832	5843	5878
15°	5796	5822	5884
20°	5755	5792	5877
25°	5690	5745	5845
30°	5618	5699	5827
35°	5535	5651	5816
40°	5446	5611	5794
45°	5368	5553	5766
50°	5265	5499	5733
55°	5138	5427	5681
60°	4981	5342	5573
65°	4788	5191	5299
70°	4493	4933	4933
75°	4035	4481	4501
80°	3326	3788	3788
85°	2304	2764	2420

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5766 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.0	3.3
10°-20°	472.5	9.4
20°-30°	715.2	14.2
30°-40°	863.4	17.2
40°-50°	902.0	17.9
50°-60°	826.3	16.4
60°-70°	637.1	12.7
70°-80°	359.4	7.2
80°-90°	85.1	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°	1352.7	26.9
0°-40°	2216.1	44.1
0°-60°	3944.4	78.5
0°-90°	5026.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5026.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1742	1742	1742	1742	1742	
5°	1730	1742	1733	1736	1742	164
15°	1661	1672	1669	1682	1687	469
25°	1530	1544	1545	1566	1572	705
35°	1346	1363	1374	1404	1414	842
45°	1126	1146	1165	1200	1210	868
55°	875	897	924	958	967	781
65°	600	620	651	674	665	594
75°	310	334	344	353	346	329
85°	60	67	72	76	63	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1741.8	1741.8	1741.8	1741.8	1741.8
2.5°	1735.9	1747.8	1735.9	1741.8	1738.9
5°	1729.9	1741.8	1732.9	1735.9	1741.8
7.5°	1719.5	1731.4	1722.5	1726.9	1734.4
10°	1704.6	1716.5	1707.6	1715.0	1718.0
12.5°	1686.7	1697.1	1691.2	1700.1	1704.6
15°	1661.4	1671.8	1668.8	1682.2	1686.7
17.5°	1634.6	1646.5	1643.5	1659.9	1664.4
20°	1604.8	1615.2	1615.2	1630.1	1639.0
22.5°	1569.0	1580.9	1582.4	1598.8	1607.7
25°	1530.3	1543.7	1545.2	1566.0	1572.0
27.5°	1488.5	1502.0	1507.9	1530.3	1536.2
30°	1443.8	1457.3	1464.7	1490.0	1497.5
32.5°	1396.2	1412.6	1420.0	1448.3	1455.8
35°	1345.5	1363.4	1373.8	1403.6	1414.0
37.5°	1293.3	1311.2	1324.6	1355.9	1367.9
40°	1238.2	1257.6	1275.5	1306.8	1317.2
42.5°	1184.6	1203.9	1220.3	1253.1	1263.5
45°	1126.5	1145.8	1165.2	1199.5	1209.9
47.5°	1065.4	1086.2	1108.6	1139.9	1153.3
50°	1004.3	1025.1	1049.0	1081.8	1093.7
52.5°	940.2	962.6	986.4	1020.7	1029.6
55°	874.6	897.0	923.8	958.1	967.0
57.5°	807.6	831.4	859.7	892.5	901.5
60°	739.1	762.9	792.7	824.0	827.0
62.5°	672.0	692.9	722.7	752.5	748.0
65°	600.5	619.9	651.1	673.5	664.6
67.5°	529.0	549.8	578.1	594.5	582.6
70°	456.0	478.3	500.7	512.6	500.7
72.5°	382.9	406.8	423.2	430.6	420.2
75°	309.9	333.8	344.2	353.1	345.7
77.5°	239.9	262.2	266.7	277.1	266.7
80°	171.4	192.2	195.2	205.6	195.2
82.5°	110.3	123.7	129.6	138.6	128.1
85°	59.6	67.1	71.5	76.0	62.6
87.5°	20.9	23.8	20.9	17.9	7.5
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	17.86	19.51	18.23	19.82	20.14	18.40	20.05	18.77	20.37	20.68
	3H	19.65	21.14	20.03	21.47	21.83	20.21	21.70	20.59	22.03	22.39
	4H	20.29	21.69	20.69	22.04	22.42	20.86	22.26	21.26	22.61	22.99
	6H	20.71	22.02	21.12	22.38	22.77	21.30	22.60	21.71	22.97	23.36
	8H	20.82	22.07	21.24	22.46	22.85	21.42	22.67	21.84	23.05	23.45
	12H	20.88	22.07	21.30	22.45	22.88	21.48	22.67	21.91	23.05	23.48
4H	2H	18.59	19.99	18.99	20.34	20.72	19.01	20.42	19.41	20.77	21.14
	3H	20.59	21.77	21.00	22.17	22.57	21.05	22.23	21.46	22.63	23.03
	4H	21.36	22.43	21.79	22.84	23.28	21.83	22.90	22.26	23.31	23.75
	6H	21.91	22.84	22.36	23.28	23.74	22.40	23.33	22.85	23.77	24.22
	8H	22.05	22.93	22.51	23.37	23.83	22.56	23.44	23.02	23.88	24.34
	12H	22.14	22.92	22.62	23.40	23.87	22.65	23.44	23.13	23.91	24.38
8H	4H	21.71	22.58	22.16	23.02	23.49	22.12	22.99	22.58	23.43	23.90
	6H	22.36	23.09	22.86	23.58	24.05	22.80	23.53	23.29	24.01	24.49
	8H	22.57	23.22	23.08	23.73	24.21	23.03	23.68	23.54	24.19	24.67
	12H	22.71	23.28	23.21	23.77	24.33	23.18	23.76	23.69	24.25	24.81
12H	4H	21.74	22.53	22.22	23.00	23.47	22.14	22.93	22.62	23.40	23.87
	6H	22.42	23.07	22.93	23.58	24.06	22.84	23.49	23.35	24.00	24.48
	8H	22.68	23.25	23.18	23.74	24.30	23.12	23.70	23.63	24.19	24.75