

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: P1584352

Luminaire Tested: 14CZSP-52-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584352
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-52-L830-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 4500 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

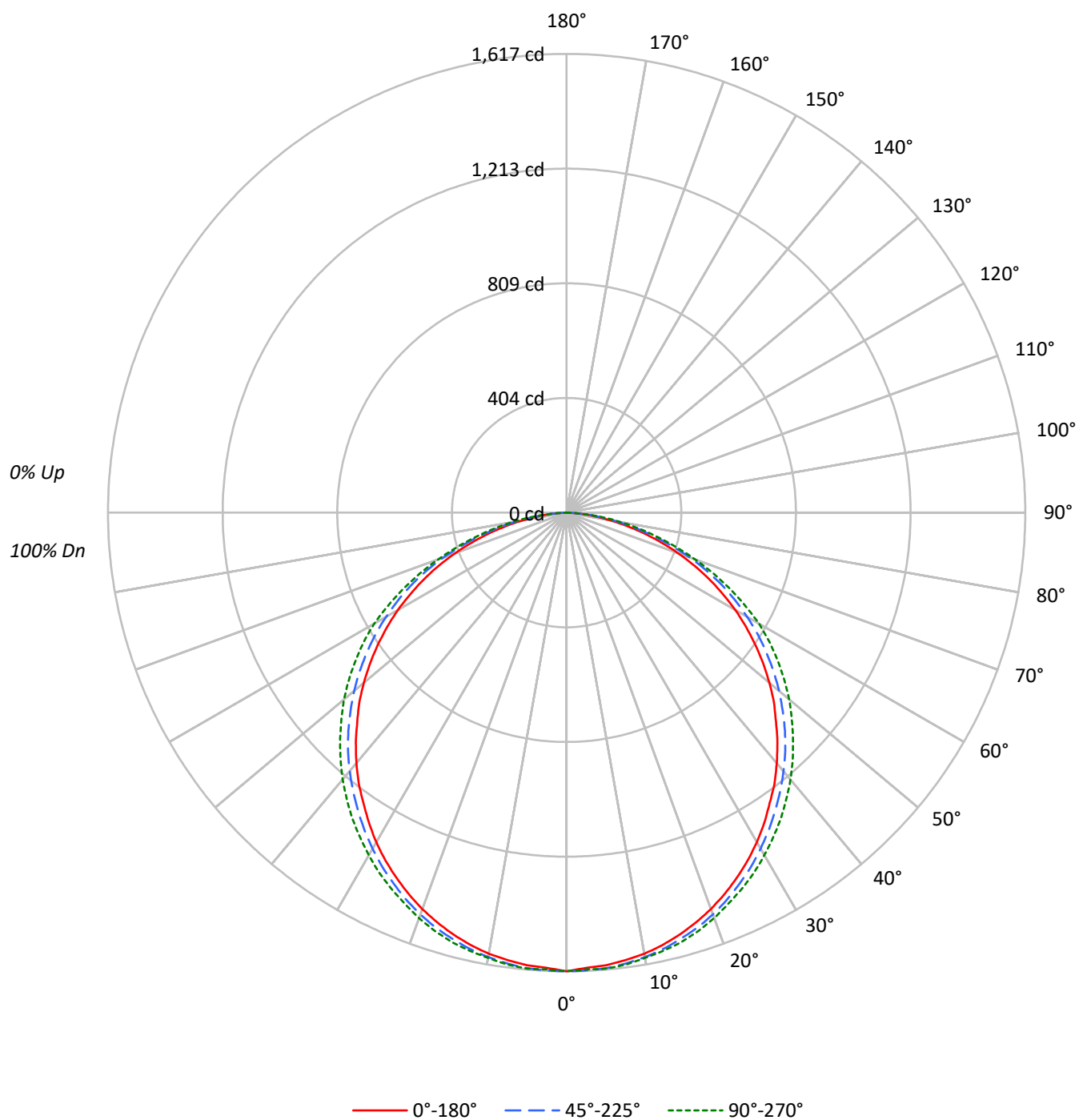
Lumens per Lamp: N/A
Luminaire Lumens: 4674.0 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	52		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	28		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°	5448	5448	5448
5°	5417	5452	5457
10°	5402	5442	5454
15°	5371	5426	5465
20°	5334	5405	5454
25°	5279	5364	5438
30°	5220	5322	5426
35°	5137	5275	5417
40°	5069	5232	5402
45°	4974	5187	5380
50°	4890	5125	5370
55°	4773	5052	5335
60°	4627	4952	5281
65°	4421	4816	5063
70°	4121	4548	4752
75°	3682	4102	4335
80°	3017	3458	3792
85°	2022	2528	2818

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5380 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.1	3.3
10°-20°	439.0	9.4
20°-30°	664.7	14.2
30°-40°	802.7	17.2
40°-50°	838.9	17.9
50°-60°	768.7	16.4
60°-70°	593.4	12.7
70°-80°	333.8	7.1
80°-90°	79.8	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°	1256.8	26.9
0°-40°	2059.5	44.1
0°-60°	3667.0	78.5
0°-90°	4674.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4674.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1617	1617	1617	1617	1617	
5°	1602	1613	1612	1613	1613	152
15°	1540	1552	1556	1562	1566	434
25°	1420	1432	1443	1450	1463	654
35°	1249	1264	1282	1300	1317	782
45°	1044	1064	1088	1110	1129	807
55°	812	834	860	887	908	726
65°	554	579	604	628	635	548
75°	283	309	315	328	333	300
85°	52	60	65	72	73	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1616.7	1616.7	1616.7	1616.7	1616.7
2.5°	1605.7	1618.1	1615.4	1619.5	1611.9
5°	1601.6	1613.3	1611.9	1613.3	1613.3
7.5°	1591.3	1603.7	1603.0	1605.0	1606.4
10°	1578.9	1590.6	1590.6	1592.7	1594.0
12.5°	1561.7	1574.1	1575.5	1578.9	1581.7
15°	1539.7	1552.1	1555.5	1561.7	1566.5
17.5°	1514.9	1528.0	1533.5	1539.7	1545.9
20°	1487.4	1499.1	1507.4	1512.2	1521.1
22.5°	1455.1	1468.1	1477.1	1481.9	1491.5
25°	1420.0	1432.4	1442.7	1450.3	1462.6
27.5°	1382.8	1395.2	1407.6	1416.5	1431.0
30°	1341.6	1354.6	1367.7	1381.5	1394.5
32.5°	1296.8	1312.0	1326.4	1341.6	1356.0
35°	1248.7	1264.5	1282.4	1299.6	1316.8
37.5°	1204.0	1218.4	1237.0	1255.6	1272.8
40°	1152.4	1168.2	1189.5	1210.1	1228.0
42.5°	1100.1	1117.3	1140.7	1160.6	1179.9
45°	1043.7	1064.3	1088.4	1110.4	1129.0
47.5°	991.4	1009.3	1033.3	1057.4	1076.7
50°	932.9	952.8	977.6	1003.1	1024.4
52.5°	873.7	894.4	919.8	945.3	967.3
55°	812.5	833.8	860.0	886.8	908.1
57.5°	749.9	772.6	799.4	826.3	847.6
60°	686.6	709.3	734.8	764.3	783.6
62.5°	620.6	646.0	670.1	697.6	709.3
65°	554.5	578.6	604.0	628.1	635.0
67.5°	487.1	511.9	534.6	550.4	559.3
70°	418.3	445.1	461.6	476.8	482.3
72.5°	350.2	377.0	386.6	401.1	406.6
75°	282.8	308.9	315.1	328.2	333.0
77.5°	217.4	241.5	243.5	258.7	262.8
80°	155.5	174.7	178.2	192.6	195.4
82.5°	99.8	113.5	118.3	130.7	134.8
85°	52.3	59.9	65.4	71.5	72.9
87.5°	17.2	21.3	17.9	18.6	17.2
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	17.60	19.25	17.97	19.57	19.88	18.14	19.79	18.51	20.11	20.42
	3H	19.38	20.87	19.75	21.20	21.56	20.00	21.49	20.38	21.82	22.18
	4H	20.00	21.41	20.40	21.76	22.13	20.67	22.07	21.07	22.42	22.80
	6H	20.41	21.72	20.82	22.08	22.47	21.14	22.45	21.55	22.81	23.20
	8H	20.52	21.76	20.94	22.15	22.55	21.29	22.54	21.71	22.93	23.32
	12H	20.57	21.76	21.00	22.14	22.57	21.37	22.57	21.80	22.95	23.38
4H	2H	18.33	19.73	18.72	20.08	20.46	18.75	20.16	19.15	20.50	20.88
	3H	20.32	21.50	20.73	21.90	22.30	20.82	22.00	21.23	22.40	22.80
	4H	21.08	22.15	21.51	22.56	22.99	21.62	22.69	22.05	23.10	23.53
	6H	21.61	22.54	22.06	22.98	23.43	22.22	23.15	22.67	23.59	24.05
	8H	21.75	22.62	22.21	23.06	23.53	22.41	23.28	22.87	23.73	24.19
	12H	21.82	22.61	22.30	23.08	23.55	22.53	23.32	23.01	23.79	24.26
8H	4H	21.42	22.29	21.87	22.73	23.20	21.89	22.77	22.35	23.21	23.67
	6H	22.06	22.78	22.55	23.27	23.74	22.61	23.33	23.10	23.82	24.29
	8H	22.26	22.91	22.76	23.41	23.90	22.86	23.51	23.37	24.02	24.50
	12H	22.39	22.96	22.89	23.45	24.01	23.04	23.62	23.55	24.11	24.67
12H	4H	21.45	22.24	21.93	22.71	23.18	21.92	22.70	22.40	23.18	23.65
	6H	22.11	22.76	22.62	23.27	23.75	22.64	23.29	23.15	23.80	24.29
	8H	22.36	22.94	22.87	23.43	23.99	22.95	23.52	23.46	24.01	24.57