

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: P1584663

Luminaire Tested: 14CZSP-A-52-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584663
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-A-52-L930
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 4500 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

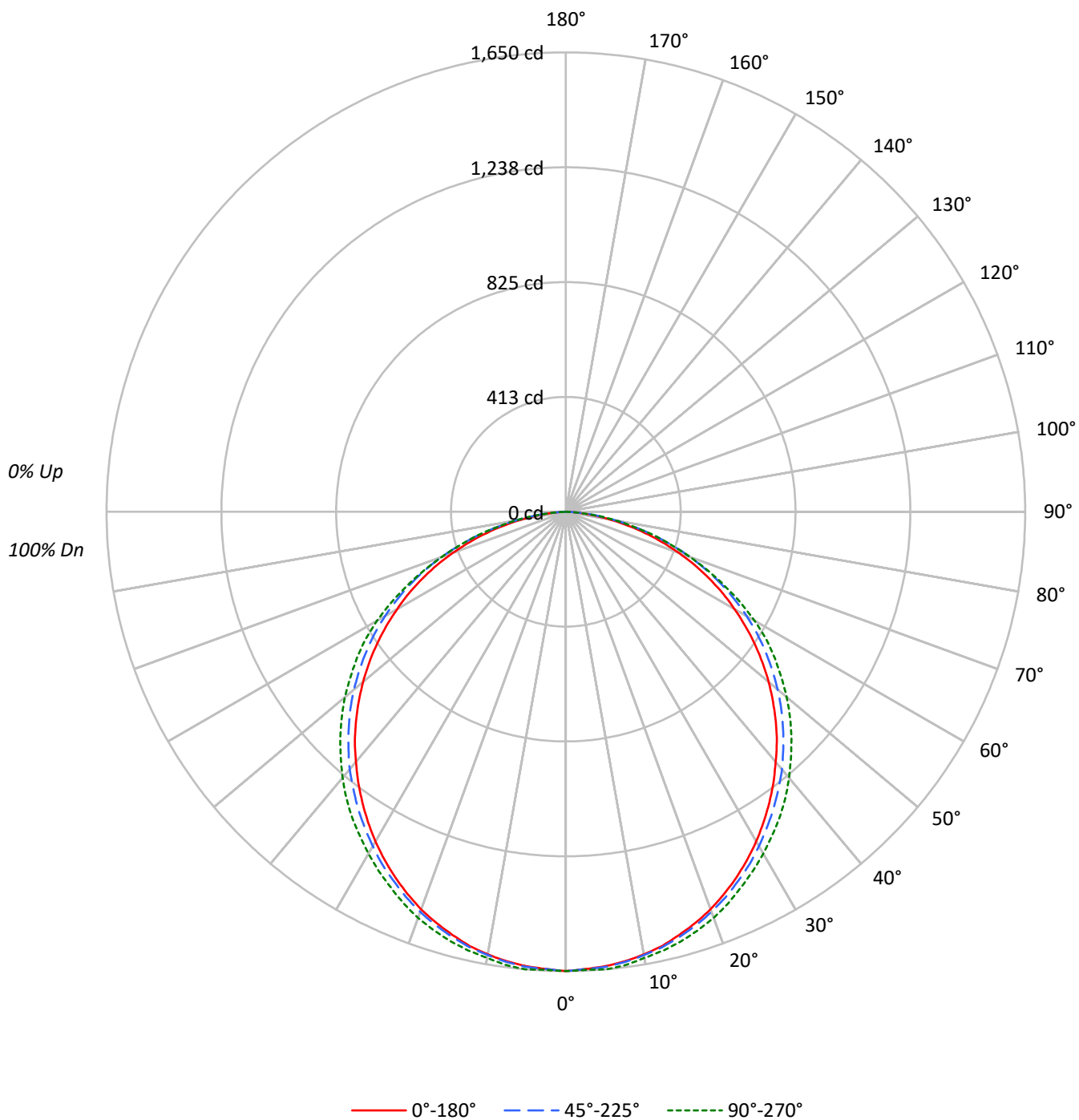
Lumens per Lamp: N/A
Luminaire Lumens: 4760.0 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	53		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	29		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°	5559	5559	5559
5°	5542	5551	5580
10°	5524	5533	5567
15°	5489	5513	5572
20°	5450	5485	5566
25°	5388	5441	5535
30°	5320	5397	5518
35°	5242	5352	5509
40°	5158	5314	5487
45°	5084	5259	5461
50°	4986	5208	5430
55°	4867	5140	5381
60°	4717	5059	5278
65°	4534	4917	5018
70°	4254	4672	4672
75°	3821	4244	4262
80°	3149	3588	3588
85°	2181	2617	2293

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5461 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.3	3.3
10°-20°	447.5	9.4
20°-30°	677.3	14.2
30°-40°	817.7	17.2
40°-50°	854.3	17.9
50°-60°	782.6	16.4
60°-70°	603.4	12.7
70°-80°	340.4	7.2
80°-90°	80.6	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°	1281.1	26.9
0°-40°	2098.8	44.1
0°-60°	3735.7	78.5
0°-90°	4760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4760.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1650	1650	1650	1650	1650	
5°	1638	1650	1641	1644	1650	156
15°	1574	1583	1580	1593	1597	444
25°	1449	1462	1463	1483	1489	668
35°	1274	1291	1301	1329	1339	797
45°	1067	1085	1104	1136	1146	822
55°	828	850	875	907	916	740
65°	569	587	617	638	629	562
75°	294	316	326	334	327	311
85°	56	64	68	72	59	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1649.7	1649.7	1649.7	1649.7	1649.7
2.5°	1644.0	1655.3	1644.0	1649.7	1646.8
5°	1638.4	1649.7	1641.2	1644.0	1649.7
7.5°	1628.5	1639.8	1631.3	1635.6	1642.6
10°	1614.4	1625.7	1617.2	1624.3	1627.1
12.5°	1597.4	1607.3	1601.7	1610.1	1614.4
15°	1573.5	1583.3	1580.5	1593.2	1597.4
17.5°	1548.1	1559.3	1556.5	1572.0	1576.3
20°	1519.8	1529.7	1529.7	1543.8	1552.3
22.5°	1486.0	1497.3	1498.7	1514.2	1522.7
25°	1449.3	1462.0	1463.4	1483.1	1488.8
27.5°	1409.8	1422.5	1428.1	1449.3	1454.9
30°	1367.4	1380.1	1387.2	1411.2	1418.2
32.5°	1322.3	1337.8	1344.8	1371.7	1378.7
35°	1274.3	1291.2	1301.1	1329.3	1339.2
37.5°	1224.9	1241.8	1254.5	1284.2	1295.5
40°	1172.7	1191.0	1208.0	1237.6	1247.5
42.5°	1121.9	1140.2	1155.8	1186.8	1196.7
45°	1066.8	1085.2	1103.5	1136.0	1145.9
47.5°	1009.0	1028.7	1049.9	1079.5	1092.2
50°	951.1	970.9	993.5	1024.5	1035.8
52.5°	890.5	911.6	934.2	966.7	975.1
55°	828.4	849.5	874.9	907.4	915.9
57.5°	764.9	787.4	814.2	845.3	853.8
60°	699.9	722.5	750.7	780.4	783.2
62.5°	636.4	656.2	684.4	712.6	708.4
65°	568.7	587.0	616.7	637.9	629.4
67.5°	501.0	520.7	547.5	563.1	551.8
70°	431.8	453.0	474.2	485.4	474.2
72.5°	362.7	385.3	400.8	407.8	398.0
75°	293.5	316.1	326.0	334.4	327.4
77.5°	227.2	248.4	252.6	262.5	252.6
80°	162.3	182.0	184.9	194.7	184.9
82.5°	104.4	117.1	122.8	131.2	121.4
85°	56.4	63.5	67.7	72.0	59.3
87.5°	19.8	22.6	19.8	16.9	7.1
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	17.67	19.32	18.04	19.64	19.95	18.22	19.87	18.58	20.18	20.49
	3H	19.46	20.95	19.84	21.28	21.64	20.02	21.52	20.40	21.84	22.20
	4H	20.10	21.51	20.50	21.85	22.23	20.67	22.08	21.07	22.42	22.80
	6H	20.52	21.83	20.93	22.19	22.58	21.11	22.41	21.52	22.78	23.17
	8H	20.63	21.88	21.06	22.27	22.66	21.23	22.48	21.65	22.87	23.26
	12H	20.69	21.88	21.12	22.26	22.69	21.29	22.48	21.72	22.86	23.29
4H	2H	18.40	19.81	18.80	20.15	20.53	18.82	20.23	19.22	20.58	20.95
	3H	20.41	21.59	20.81	21.98	22.38	20.86	22.04	21.27	22.44	22.84
	4H	21.17	22.24	21.60	22.65	23.09	21.64	22.71	22.07	23.12	23.56
	6H	21.72	22.65	22.17	23.09	23.55	22.21	23.14	22.66	23.58	24.04
	8H	21.86	22.74	22.32	23.18	23.64	22.37	23.25	22.83	23.69	24.15
	12H	21.95	22.73	22.43	23.21	23.68	22.47	23.25	22.95	23.73	24.19
8H	4H	21.52	22.39	21.98	22.83	23.30	21.93	22.80	22.39	23.24	23.71
	6H	22.18	22.90	22.67	23.39	23.86	22.61	23.34	23.10	23.82	24.30
	8H	22.38	23.03	22.89	23.54	24.02	22.84	23.49	23.35	24.00	24.49
	12H	22.52	23.09	23.02	23.58	24.14	22.99	23.57	23.50	24.06	24.62
12H	4H	21.55	22.34	22.03	22.81	23.28	21.95	22.74	22.43	23.21	23.68
	6H	22.23	22.88	22.74	23.39	23.87	22.65	23.30	23.16	23.81	24.29
	8H	22.49	23.06	22.99	23.55	24.11	22.94	23.51	23.44	24.00	24.56