

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: P1584671

Luminaire Tested: 14CZSP-A-52-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584671
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-L950
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 4500 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

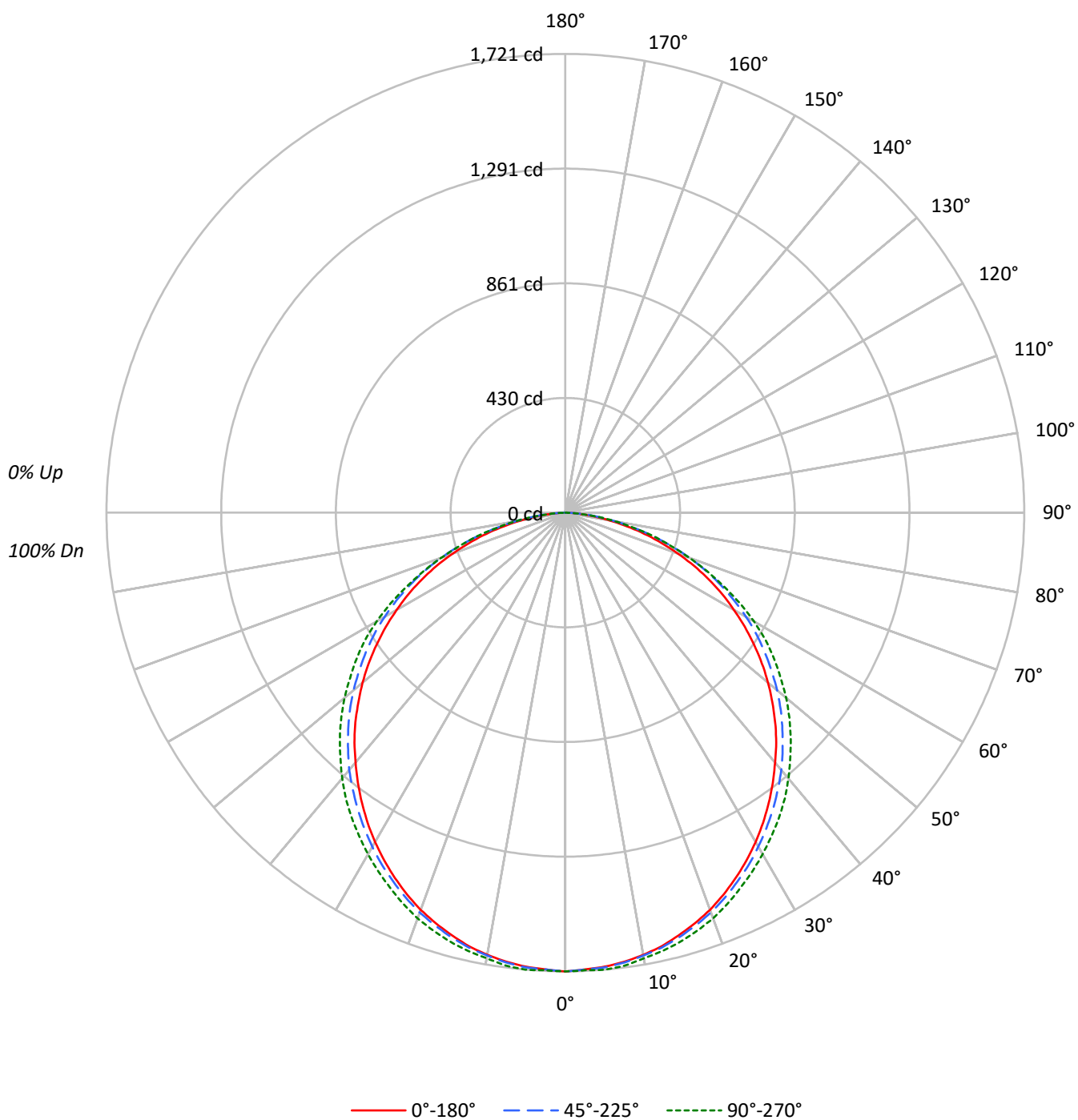
Lumens per Lamp: N/A
Luminaire Lumens: 4967.0 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	5800	5800	5800
5°	5783	5793	5823
10°	5764	5774	5809
15°	5728	5753	5815
20°	5687	5724	5808
25°	5623	5677	5776
30°	5552	5632	5758
35°	5470	5585	5748
40°	5383	5545	5726
45°	5305	5487	5698
50°	5203	5435	5666
55°	5078	5364	5614
60°	4922	5279	5508
65°	4731	5131	5237
70°	4439	4875	4875
75°	3988	4429	4447
80°	3285	3743	3743
85°	2277	2733	2389

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5698 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.1	3.3
10°-20°	467.0	9.4
20°-30°	706.8	14.2
30°-40°	853.2	17.2
40°-50°	891.4	17.9
50°-60°	816.6	16.4
60°-70°	629.6	12.7
70°-80°	355.2	7.2
80°-90°	84.1	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°	1336.8	26.9
0°-40°	2190.1	44.1
0°-60°	3898.1	78.5
0°-90°	4967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4967.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1721	1721	1721	1721	1721	
5°	1710	1721	1713	1716	1721	162
15°	1642	1652	1649	1662	1667	463
25°	1512	1526	1527	1548	1554	697
35°	1330	1347	1358	1387	1397	832
45°	1113	1132	1152	1185	1196	858
55°	864	886	913	947	956	772
65°	593	613	644	666	657	587
75°	306	330	340	349	342	325
85°	59	66	71	75	62	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1721.4	1721.4	1721.4	1721.4	1721.4
2.5°	1715.5	1727.3	1715.5	1721.4	1718.5
5°	1709.6	1721.4	1712.6	1715.5	1721.4
7.5°	1699.3	1711.1	1702.3	1706.7	1714.0
10°	1684.6	1696.4	1687.5	1694.9	1697.8
12.5°	1666.9	1677.2	1671.3	1680.2	1684.6
15°	1641.9	1652.2	1649.2	1662.5	1666.9
17.5°	1615.4	1627.2	1624.2	1640.4	1644.8
20°	1585.9	1596.2	1596.2	1611.0	1619.8
22.5°	1550.6	1562.4	1563.8	1580.0	1588.9
25°	1512.3	1525.6	1527.0	1547.6	1553.5
27.5°	1471.1	1484.3	1490.2	1512.3	1518.2
30°	1426.9	1440.1	1447.5	1472.5	1479.9
32.5°	1379.8	1396.0	1403.3	1431.3	1438.7
35°	1329.7	1347.4	1357.7	1387.1	1397.4
37.5°	1278.2	1295.8	1309.1	1340.0	1351.8
40°	1223.7	1242.8	1260.5	1291.4	1301.7
42.5°	1170.7	1189.8	1206.0	1238.4	1248.7
45°	1113.2	1132.4	1151.5	1185.4	1195.7
47.5°	1052.9	1073.5	1095.6	1126.5	1139.7
50°	992.5	1013.1	1036.7	1069.1	1080.8
52.5°	929.2	951.3	974.8	1008.7	1017.5
55°	864.4	886.5	913.0	946.8	955.7
57.5°	798.1	821.7	849.7	882.1	890.9
60°	730.4	753.9	783.4	814.3	817.3
62.5°	664.1	684.7	714.2	743.6	739.2
65°	593.4	612.6	643.5	665.6	656.8
67.5°	522.8	543.4	571.3	587.5	575.8
70°	450.6	472.7	494.8	506.6	494.8
72.5°	378.4	402.0	418.2	425.6	415.3
75°	306.3	329.8	340.2	349.0	341.6
77.5°	237.1	259.2	263.6	273.9	263.6
80°	169.3	190.0	192.9	203.2	192.9
82.5°	109.0	122.2	128.1	136.9	126.6
85°	58.9	66.3	70.7	75.1	61.8
87.5°	20.6	23.6	20.6	17.7	7.4
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	17.82	19.47	18.18	19.78	20.10	18.36	20.01	18.73	20.33	20.64
	3H	19.61	21.10	19.98	21.43	21.79	20.17	21.66	20.55	21.99	22.35
	4H	20.25	21.65	20.65	22.00	22.38	20.82	22.22	21.21	22.57	22.95
	6H	20.67	21.98	21.08	22.34	22.73	21.26	22.56	21.67	22.92	23.32
	8H	20.78	22.03	21.20	22.41	22.81	21.38	22.62	21.80	23.01	23.41
	12H	20.83	22.03	21.26	22.41	22.84	21.44	22.63	21.87	23.01	23.44
4H	2H	18.55	19.95	18.94	20.30	20.68	18.97	20.38	19.37	20.73	21.10
	3H	20.55	21.73	20.96	22.13	22.53	21.01	22.19	21.42	22.59	22.99
	4H	21.32	22.39	21.75	22.80	23.24	21.79	22.86	22.22	23.27	23.70
	6H	21.87	22.80	22.32	23.24	23.69	22.36	23.29	22.81	23.73	24.18
	8H	22.01	22.88	22.47	23.33	23.79	22.52	23.39	22.98	23.84	24.30
	12H	22.10	22.88	22.58	23.36	23.82	22.61	23.40	23.09	23.87	24.34
8H	4H	21.66	22.54	22.12	22.98	23.44	22.08	22.95	22.54	23.39	23.86
	6H	22.32	23.05	22.82	23.54	24.01	22.76	23.48	23.25	23.97	24.45
	8H	22.53	23.18	23.04	23.69	24.17	22.99	23.64	23.50	24.15	24.63
	12H	22.67	23.24	23.17	23.73	24.29	23.14	23.72	23.65	24.21	24.77
12H	4H	21.70	22.49	22.18	22.96	23.43	22.10	22.89	22.58	23.36	23.83
	6H	22.38	23.03	22.89	23.54	24.02	22.80	23.45	23.31	23.96	24.44
	8H	22.64	23.21	23.14	23.70	24.26	23.08	23.66	23.59	24.15	24.71

END OF REPORT