

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: P1584591

Luminaire Tested: 14CZSP-A-42-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584591
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-42-L950
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 3500 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

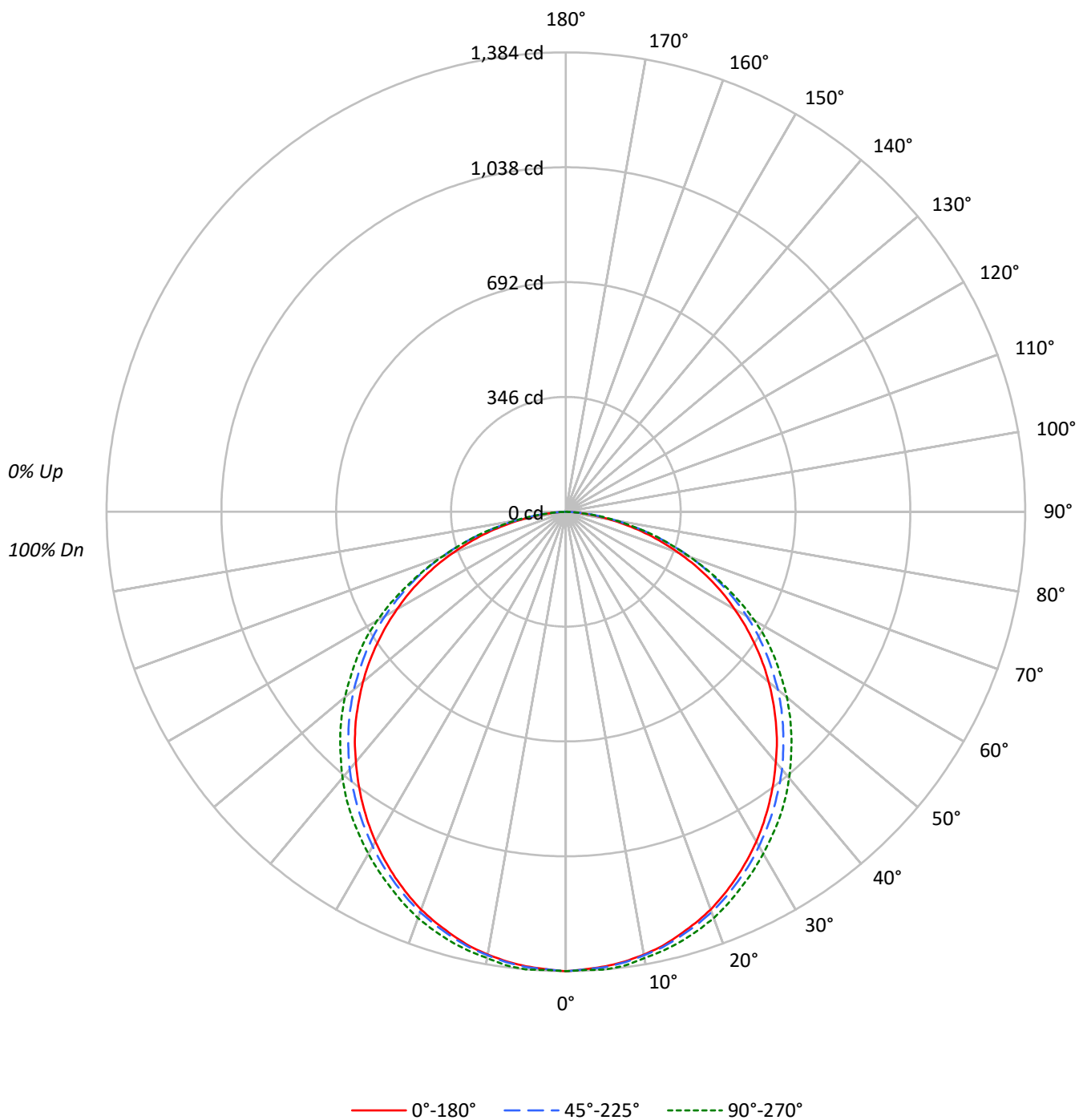
Lumens per Lamp: N/A
Luminaire Lumens: 3994.0 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.5
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

TEST NUMBER: P1584591

CATALOG NUMBER: 14CZSP-A-42-L950

Luminous Intensity Polar Plot



TEST NUMBER: P1584591

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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°	4664	4664	4664
5°	4650	4658	4682
10°	4635	4643	4671
15°	4606	4626	4676
20°	4573	4602	4671
25°	4521	4565	4644
30°	4464	4529	4630
35°	4398	4491	4622
40°	4328	4458	4604
45°	4266	4413	4582
50°	4184	4370	4556
55°	4083	4313	4515
60°	3958	4245	4429
65°	3805	4125	4211
70°	3569	3920	3920
75°	3207	3561	3576
80°	2643	3010	3010
85°	1833	2196	1921

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4582 cd/sqm

TEST NUMBER: P1584591

CATALOG NUMBER: 14CZSP-A-42-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	3.3
10°-20°	375.5	9.4
20°-30°	568.3	14.2
30°-40°	686.1	17.2
40°-50°	716.8	17.9
50°-60°	656.7	16.4
60°-70°	506.3	12.7
70°-80°	285.6	7.2
80°-90°	67.6	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°	1074.9	26.9
0°-40°	1761.0	44.1
0°-60°	3134.5	78.5
0°-90°	3994.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3994.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1384	1384	1384	1384	1384	
5°	1375	1384	1377	1380	1384	131
15°	1320	1328	1326	1337	1340	373
25°	1216	1227	1228	1244	1249	560
35°	1069	1083	1092	1115	1124	669
45°	895	911	926	953	962	690
55°	695	713	734	761	768	621
65°	477	493	517	535	528	472
75°	246	265	274	281	275	261
85°	47	53	57	60	50	60
90°	0	0	0	0	0	

TEST NUMBER: P1584591

CATALOG NUMBER: 14CZSP-A-42-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1384.2	1384.2	1384.2	1384.2	1384.2
2.5°	1379.5	1388.9	1379.5	1384.2	1381.8
5°	1374.7	1384.2	1377.1	1379.5	1384.2
7.5°	1366.4	1375.9	1368.8	1372.4	1378.3
10°	1354.6	1364.1	1357.0	1362.9	1365.2
12.5°	1340.4	1348.7	1343.9	1351.0	1354.6
15°	1320.3	1328.5	1326.2	1336.8	1340.4
17.5°	1298.9	1308.4	1306.0	1319.1	1322.6
20°	1275.3	1283.5	1283.5	1295.4	1302.5
22.5°	1246.8	1256.3	1257.5	1270.5	1277.6
25°	1216.1	1226.7	1227.9	1244.5	1249.2
27.5°	1182.9	1193.6	1198.3	1216.1	1220.8
30°	1147.4	1158.0	1164.0	1184.1	1190.0
32.5°	1109.5	1122.5	1128.4	1150.9	1156.8
35°	1069.2	1083.4	1091.7	1115.4	1123.7
37.5°	1027.8	1042.0	1052.6	1077.5	1087.0
40°	984.0	999.4	1013.6	1038.4	1046.7
42.5°	941.3	956.7	969.8	995.8	1004.1
45°	895.2	910.6	926.0	953.2	961.5
47.5°	846.6	863.2	881.0	905.8	916.5
50°	798.1	814.6	833.6	859.6	869.1
52.5°	747.2	764.9	783.9	811.1	818.2
55°	695.1	712.8	734.1	761.4	768.5
57.5°	641.8	660.7	683.2	709.3	716.4
60°	587.3	606.2	629.9	654.8	657.2
62.5°	534.0	550.6	574.3	598.0	594.4
65°	477.2	492.6	517.4	535.2	528.1
67.5°	420.3	436.9	459.4	472.4	463.0
70°	362.3	380.1	397.9	407.3	397.9
72.5°	304.3	323.3	336.3	342.2	333.9
75°	246.3	265.2	273.5	280.6	274.7
77.5°	190.6	208.4	212.0	220.2	212.0
80°	136.2	152.7	155.1	163.4	155.1
82.5°	87.6	98.3	103.0	110.1	101.8
85°	47.4	53.3	56.8	60.4	49.7
87.5°	16.6	18.9	16.6	14.2	5.9
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584591

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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	17.06	18.71	17.43	19.03	19.34	17.61	19.26	17.97	19.57	19.88
	3H	18.85	20.34	19.23	20.67	21.03	19.41	20.91	19.79	21.23	21.59
	4H	19.49	20.90	19.89	21.24	21.62	20.06	21.47	20.46	21.81	22.19
	6H	19.91	21.22	20.32	21.58	21.97	20.50	21.80	20.91	22.17	22.56
	8H	20.02	21.27	20.45	21.66	22.06	20.62	21.87	21.05	22.26	22.65
	12H	20.08	21.27	20.51	21.65	22.08	20.68	21.87	21.11	22.25	22.68
4H	2H	17.79	19.20	18.19	19.54	19.92	18.21	19.62	18.61	19.97	20.34
	3H	19.80	20.98	20.20	21.37	21.77	20.25	21.43	20.66	21.83	22.23
	4H	20.56	21.63	20.99	22.04	22.48	21.03	22.10	21.46	22.51	22.95
	6H	21.11	22.04	21.56	22.48	22.94	21.60	22.53	22.05	22.97	23.43
	8H	21.25	22.13	21.71	22.57	23.03	21.76	22.64	22.22	23.08	23.54
	12H	21.34	22.12	21.82	22.60	23.07	21.86	22.64	22.34	23.12	23.58
8H	4H	20.91	21.78	21.37	22.22	22.69	21.32	22.19	21.78	22.63	23.10
	6H	21.57	22.29	22.06	22.78	23.25	22.00	22.73	22.49	23.21	23.69
	8H	21.77	22.42	22.28	22.93	23.41	22.23	22.88	22.74	23.39	23.88
	12H	21.91	22.48	22.41	22.97	23.53	22.38	22.96	22.89	23.45	24.01
12H	4H	20.94	21.73	21.42	22.20	22.67	21.34	22.13	21.82	22.60	23.07
	6H	21.62	22.27	22.13	22.78	23.26	22.04	22.69	22.55	23.20	23.68
	8H	21.88	22.45	22.39	22.94	23.50	22.33	22.90	22.83	23.39	23.95

END OF REPORT