

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: P1584311

Luminaire Tested: 14CZSP-43HE-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2602-698-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-43HE-L950
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

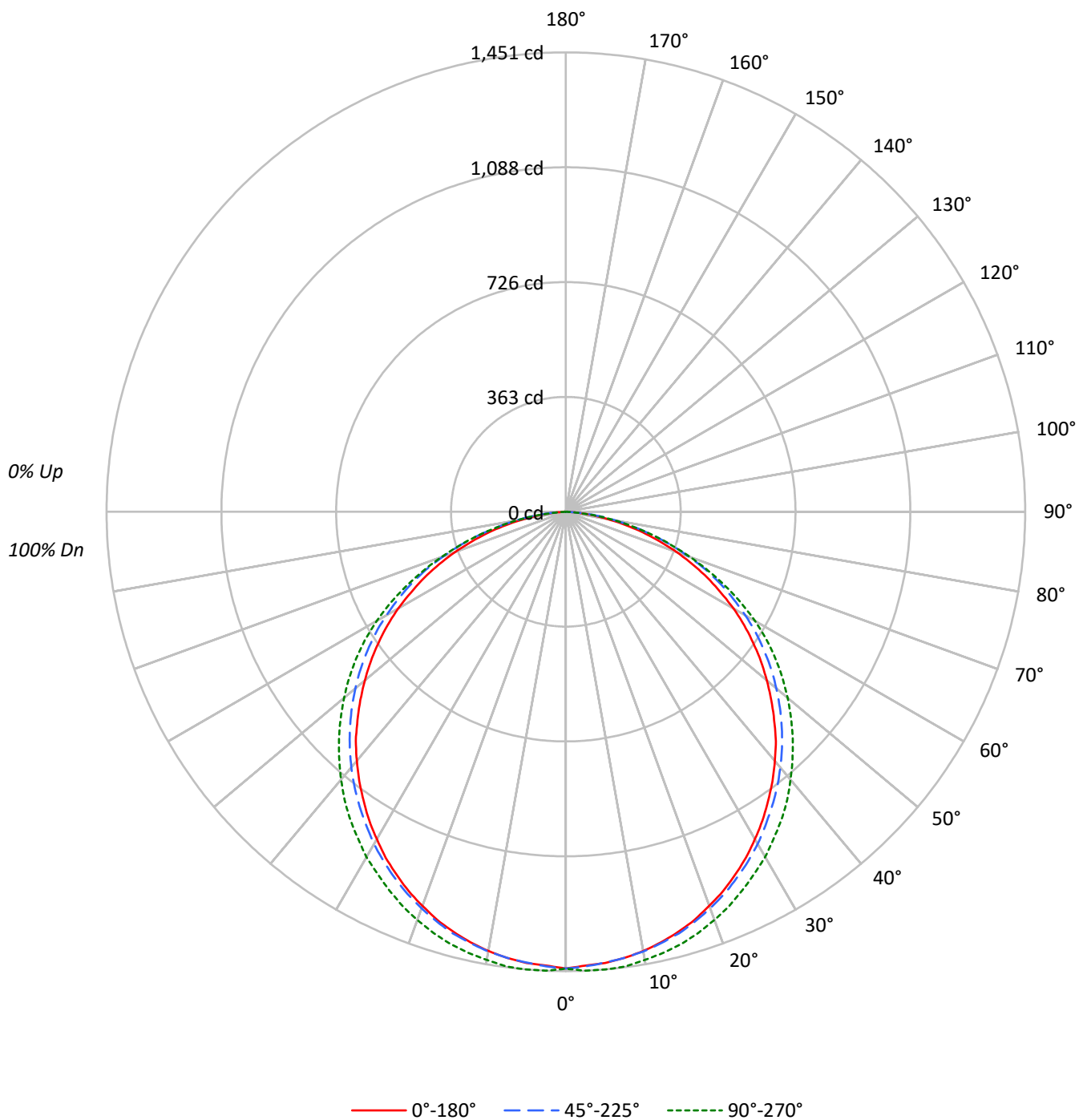
Lumens per Lamp: N/A
Luminaire Lumens: 4156.0 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.9
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

TEST NUMBER: P1584311

CATALOG NUMBER: 14CZSP-43HE-L950

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		94	91	88		90
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	73	61	53	47	59	52	46		57	51	46		55
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46
8	60	47	38	32	59	46	38	32	44	37	32		43	36	32		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°	4862	4862	4862
5°	4839	4834	4908
10°	4820	4825	4918
15°	4791	4810	4929
20°	4750	4779	4920
25°	4702	4748	4905
30°	4646	4715	4900
35°	4582	4672	4884
40°	4518	4637	4858
45°	4435	4597	4830
50°	4344	4551	4793
55°	4246	4494	4749
60°	4120	4413	4651
65°	3932	4301	4441
70°	3667	4055	4122
75°	3272	3661	3696
80°	2662	3085	3058
85°	1732	2153	1682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4830 cd/sqm

TEST NUMBER: P1584311

CATALOG NUMBER: 14CZSP-43HE-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.7	3.3
10°-20°	391.5	9.4
20°-30°	593.1	14.3
30°-40°	716.4	17.2
40°-50°	748.4	18.0
50°-60°	685.3	16.5
60°-70°	526.6	12.7
70°-80°	293.2	7.1
80°-90°	64.9	1.6
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°	1121.3	27.0
0°-40°	1837.7	44.2
0°-60°	3271.3	78.7
0°-90°	4156.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4156.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1443	1443	1443	1443	1443	
5°	1431	1446	1429	1437	1451	136
15°	1374	1387	1379	1392	1413	387
25°	1265	1280	1277	1296	1319	583
35°	1114	1130	1136	1163	1187	697
45°	931	951	965	993	1014	718
55°	723	746	765	792	808	646
65°	493	519	539	550	557	487
75°	251	277	281	281	284	266
85°	45	53	56	46	44	58
90°	0	0	0	0	0	

TEST NUMBER: P1584311

CATALOG NUMBER: 14CZSP-43HE-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1442.8	1442.8	1442.8	1442.8	1442.8
2.5°	1434.6	1448.2	1437.4	1441.4	1451.0
5°	1430.6	1445.5	1429.2	1437.4	1451.0
7.5°	1421.1	1434.6	1421.1	1430.6	1448.2
10°	1408.8	1423.8	1410.2	1419.7	1437.4
12.5°	1392.5	1404.8	1395.2	1408.8	1426.5
15°	1373.5	1387.1	1378.9	1392.5	1412.9
17.5°	1351.8	1364.0	1357.2	1374.9	1393.9
20°	1324.6	1338.2	1332.8	1350.4	1372.2
22.5°	1297.4	1311.0	1306.9	1324.6	1347.7
25°	1264.8	1279.8	1277.1	1296.1	1319.2
27.5°	1232.2	1247.2	1245.8	1267.5	1289.3
30°	1194.2	1209.1	1211.8	1234.9	1259.4
32.5°	1156.1	1172.4	1173.8	1199.6	1222.7
35°	1114.0	1130.3	1135.8	1162.9	1187.4
37.5°	1071.9	1088.2	1096.4	1122.2	1148.0
40°	1027.1	1044.7	1054.2	1081.4	1104.5
42.5°	982.2	999.9	1010.8	1037.9	1059.7
45°	930.6	951.0	964.6	993.1	1013.5
47.5°	880.4	902.1	917.0	944.2	964.6
50°	828.7	851.8	868.1	895.3	914.3
52.5°	777.1	801.6	817.9	843.7	862.7
55°	722.8	745.9	764.9	792.0	808.3
57.5°	668.4	691.5	711.9	736.3	751.3
60°	611.4	635.8	654.8	679.3	690.2
62.5°	551.6	577.4	596.4	615.4	624.9
65°	493.2	519.0	539.4	550.2	557.0
67.5°	433.4	459.2	478.2	483.7	487.7
70°	372.2	398.1	411.6	414.4	418.4
72.5°	311.1	336.9	347.8	347.8	349.2
75°	251.3	277.1	281.2	281.2	283.9
77.5°	192.9	216.0	218.7	218.7	218.7
80°	137.2	154.9	159.0	159.0	157.6
82.5°	86.9	99.2	106.0	100.5	97.8
85°	44.8	53.0	55.7	46.2	43.5
87.5°	13.6	16.3	13.6	8.2	6.8
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584311

CATALOG NUMBER: 14CZSP-43HE-L950

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	17.24	18.89	17.60	19.20	19.51	17.74	19.39	18.11	19.71	20.02
	3H	19.01	20.50	19.39	20.83	21.19	19.54	21.03	19.92	21.36	21.72
	4H	19.63	21.04	20.03	21.38	21.76	20.17	21.58	20.57	21.92	22.30
	6H	20.04	21.34	20.45	21.70	22.09	20.59	21.90	21.00	22.26	22.65
	8H	20.13	21.38	20.56	21.77	22.16	20.70	21.94	21.12	22.33	22.73
	12H	20.18	21.37	20.61	21.75	22.18	20.74	21.93	21.17	22.31	22.74
4H	2H	17.96	19.36	18.36	19.71	20.09	18.36	19.76	18.75	20.11	20.48
	3H	19.95	21.13	20.36	21.53	21.93	20.37	21.55	20.78	21.94	22.34
	4H	20.71	21.77	21.14	22.19	22.62	21.12	22.18	21.55	22.60	23.03
	6H	21.23	22.16	21.68	22.60	23.06	21.66	22.59	22.11	23.03	23.48
	8H	21.36	22.23	21.82	22.68	23.14	21.80	22.67	22.26	23.11	23.58
	12H	21.44	22.22	21.92	22.69	23.16	21.86	22.65	22.34	23.12	23.59
8H	4H	21.04	21.91	21.50	22.35	22.82	21.41	22.28	21.86	22.72	23.18
	6H	21.68	22.40	22.17	22.89	23.36	22.05	22.77	22.54	23.26	23.73
	8H	21.87	22.52	22.38	23.02	23.51	22.24	22.89	22.75	23.39	23.88
	12H	21.99	22.56	22.50	23.05	23.61	22.35	22.92	22.85	23.41	23.97
12H	4H	21.07	21.86	21.55	22.33	22.80	21.43	22.21	21.91	22.69	23.16
	6H	21.73	22.37	22.23	22.88	23.37	22.09	22.73	22.59	23.24	23.73
	8H	21.97	22.54	22.48	23.03	23.59	22.33	22.90	22.84	23.39	23.95