

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: P1584292

Luminaire Tested: 14CZSP-43HE-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584292
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-43HE-L830-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

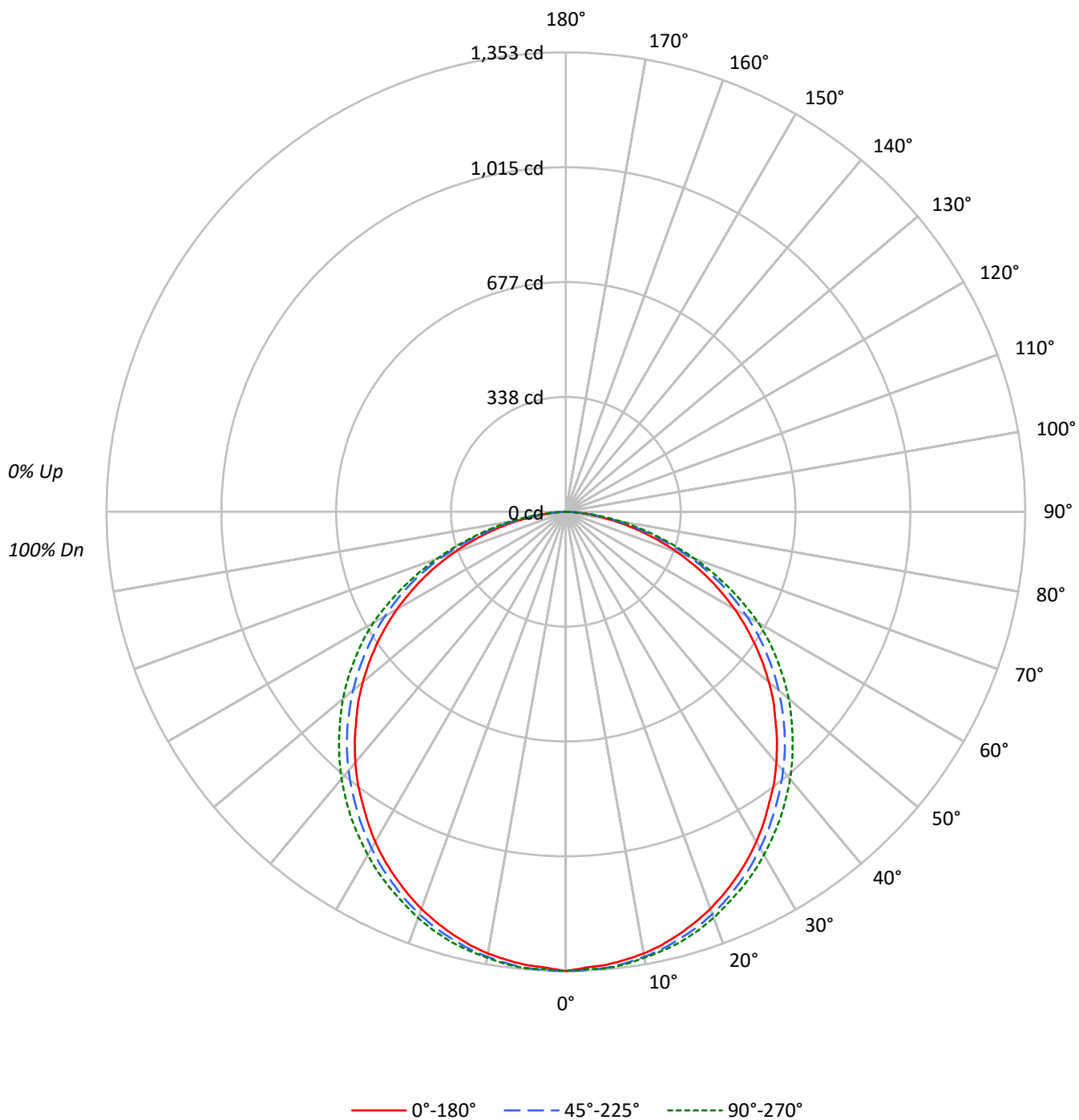
Lumens per Lamp: N/A
Luminaire Lumens: 3911.0 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.9
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: P1584292

CATALOG NUMBER: 14CZSP-43HE-L830-S

Luminous Intensity Polar Plot



TEST NUMBER: P1584292

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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°	4558	4558	4558
5°	4533	4562	4566
10°	4521	4554	4564
15°	4494	4541	4573
20°	4463	4523	4564
25°	4418	4488	4550
30°	4368	4453	4540
35°	4298	4414	4532
40°	4241	4378	4520
45°	4162	4340	4502
50°	4092	4288	4494
55°	3994	4227	4464
60°	3872	4143	4419
65°	3700	4030	4236
70°	3448	3806	3975
75°	3080	3433	3627
80°	2525	2893	3173
85°	1693	2115	2358

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4502 cd/sqm

TEST NUMBER: P1584292

CATALOG NUMBER: 14CZSP-43HE-L830-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	3.3
10°-20°	367.3	9.4
20°-30°	556.2	14.2
30°-40°	671.6	17.2
40°-50°	701.9	17.9
50°-60°	643.2	16.4
60°-70°	496.5	12.7
70°-80°	279.3	7.1
80°-90°	66.8	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°	1051.6	26.9
0°-40°	1723.3	44.1
0°-60°	3068.4	78.5
0°-90°	3911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3911.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1353	1353	1353	1353	1353	
5°	1340	1350	1349	1350	1350	127
15°	1288	1299	1302	1307	1311	364
25°	1188	1198	1207	1214	1224	548
35°	1045	1058	1073	1087	1102	655
45°	873	891	911	929	945	675
55°	680	698	720	742	760	607
65°	464	484	505	526	531	458
75°	237	258	264	275	279	251
85°	44	50	55	60	61	56
90°	0	0	0	0	0	

TEST NUMBER: P1584292

CATALOG NUMBER: 14CZSP-43HE-L830-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1352.8	1352.8	1352.8	1352.8	1352.8
2.5°	1343.6	1354.0	1351.7	1355.1	1348.8
5°	1340.2	1349.9	1348.8	1349.9	1349.9
7.5°	1331.5	1341.9	1341.3	1343.0	1344.2
10°	1321.2	1330.9	1330.9	1332.7	1333.8
12.5°	1306.8	1317.1	1318.3	1321.2	1323.5
15°	1288.3	1298.7	1301.6	1306.8	1310.8
17.5°	1267.6	1278.6	1283.2	1288.3	1293.5
20°	1244.6	1254.4	1261.3	1265.3	1272.8
22.5°	1217.5	1228.5	1236.0	1240.0	1248.0
25°	1188.2	1198.5	1207.2	1213.5	1223.9
27.5°	1157.1	1167.5	1177.8	1185.3	1197.4
30°	1122.6	1133.5	1144.4	1155.9	1166.9
32.5°	1085.1	1097.8	1109.9	1122.6	1134.6
35°	1044.8	1058.1	1073.0	1087.4	1101.8
37.5°	1007.4	1019.5	1035.0	1050.6	1065.0
40°	964.2	977.5	995.3	1012.6	1027.6
42.5°	920.5	934.9	954.5	971.2	987.3
45°	873.3	890.6	910.7	929.1	944.7
47.5°	829.5	844.5	864.7	884.8	900.9
50°	780.6	797.3	818.0	839.3	857.2
52.5°	731.1	748.4	769.7	791.0	809.4
55°	679.9	697.7	719.6	742.0	759.9
57.5°	627.5	646.5	668.9	691.4	709.2
60°	574.5	593.5	614.8	639.6	655.7
62.5°	519.3	540.6	560.7	583.7	593.5
65°	464.0	484.1	505.4	525.6	531.3
67.5°	407.6	428.3	447.3	460.5	468.0
70°	350.0	372.5	386.3	398.9	403.5
72.5°	293.0	315.5	323.5	335.6	340.2
75°	236.6	258.5	263.7	274.6	278.6
77.5°	181.9	202.1	203.8	216.5	219.9
80°	130.1	146.2	149.1	161.2	163.5
82.5°	83.5	95.0	99.0	109.4	112.8
85°	43.8	50.1	54.7	59.9	61.0
87.5°	14.4	17.8	15.0	15.5	14.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584292

CATALOG NUMBER: 14CZSP-43HE-L830-S

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	16.98	18.63	17.35	18.95	19.26	17.52	19.17	17.89	19.49	19.80
	3H	18.76	20.25	19.14	20.58	20.94	19.38	20.87	19.76	21.20	21.56
	4H	19.39	20.79	19.78	21.14	21.51	20.05	21.46	20.45	21.80	22.18
	6H	19.79	21.10	20.20	21.46	21.85	20.52	21.83	20.94	22.19	22.58
	8H	19.90	21.14	20.32	21.53	21.93	20.67	21.92	21.09	22.31	22.70
	12H	19.95	21.14	20.38	21.52	21.95	20.75	21.95	21.18	22.33	22.76
4H	2H	17.71	19.11	18.11	19.46	19.84	18.13	19.54	18.53	19.88	20.26
	3H	19.70	20.88	20.11	21.28	21.68	20.20	21.38	20.61	21.78	22.18
	4H	20.46	21.53	20.89	21.94	22.38	21.00	22.07	21.43	22.48	22.91
	6H	20.99	21.92	21.44	22.36	22.82	21.60	22.53	22.05	22.97	23.43
	8H	21.13	22.00	21.59	22.44	22.91	21.79	22.66	22.25	23.11	23.57
	12H	21.21	21.99	21.68	22.47	22.93	21.91	22.70	22.39	23.17	23.64
8H	4H	20.80	21.67	21.26	22.11	22.58	21.27	22.15	21.73	22.59	23.05
	6H	21.44	22.16	21.93	22.65	23.12	21.99	22.71	22.48	23.20	23.67
	8H	21.64	22.29	22.15	22.79	23.28	22.24	22.89	22.75	23.40	23.89
	12H	21.77	22.34	22.27	22.83	23.39	22.42	23.00	22.93	23.49	24.05
12H	4H	20.83	21.62	21.31	22.09	22.56	21.30	22.08	21.78	22.56	23.03
	6H	21.49	22.14	22.00	22.65	23.13	22.02	22.67	22.53	23.18	23.67
	8H	21.74	22.32	22.25	22.81	23.37	22.33	22.91	22.84	23.40	23.96