

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: P1584309

Luminaire Tested: 14CZSP-43HE-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584309
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-L945
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 4000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

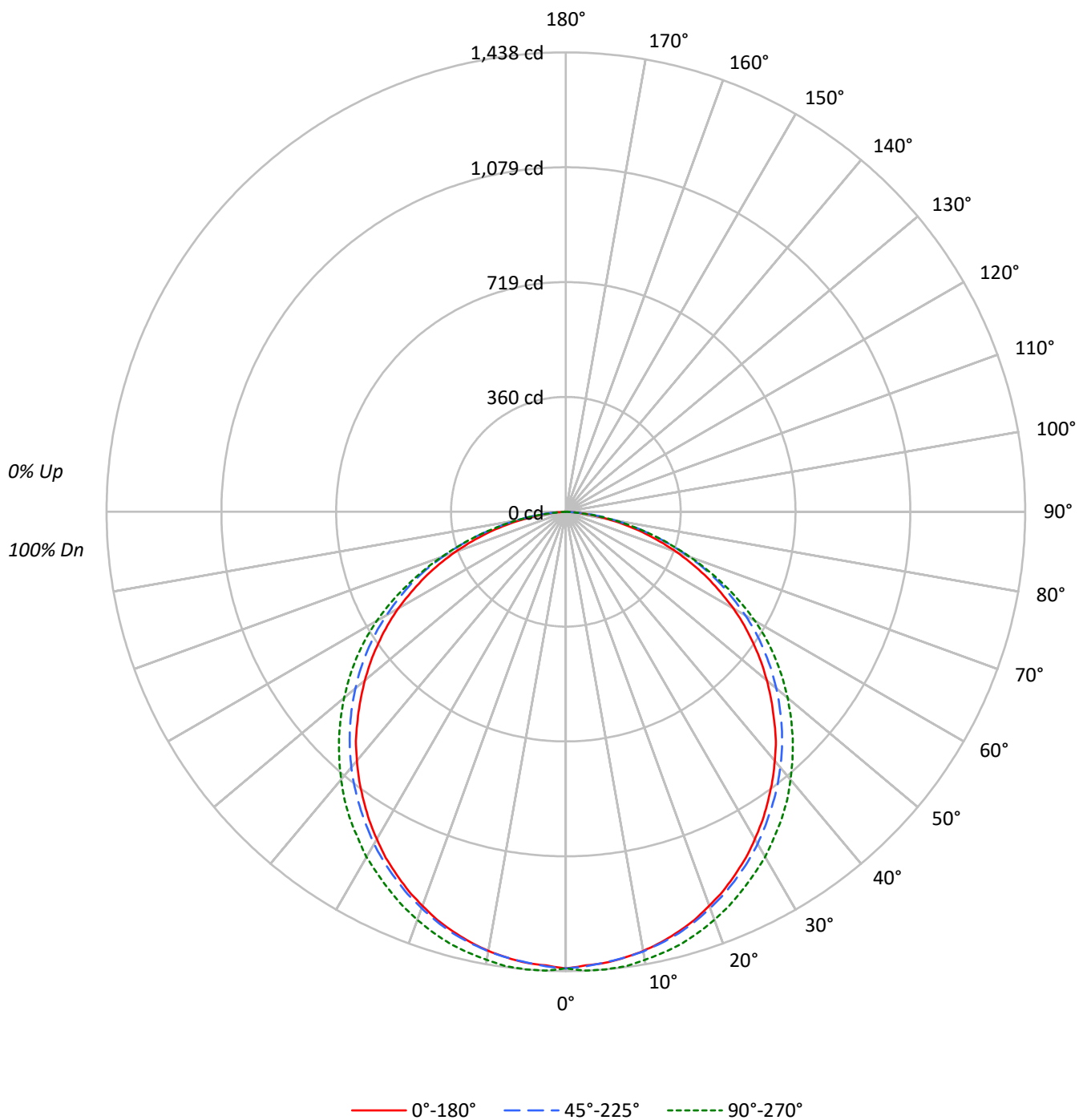
Lumens per Lamp: N/A
Luminaire Lumens: 4118.0 lumens
Efficiency: N/A
Efficacy: 142.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1584309

CATALOG NUMBER: 14CZSP-43HE-L945

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°	4817	4817	4817
5°	4795	4790	4863
10°	4776	4781	4873
15°	4748	4766	4884
20°	4706	4735	4875
25°	4660	4705	4860
30°	4604	4672	4855
35°	4540	4629	4840
40°	4477	4595	4814
45°	4394	4555	4785
50°	4304	4509	4749
55°	4207	4452	4706
60°	4083	4372	4608
65°	3896	4261	4400
70°	3633	4019	4085
75°	3242	3628	3662
80°	2639	3056	3031
85°	1717	2134	1666

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4785 cd/sqm

TEST NUMBER: P1584309

CATALOG NUMBER: 14CZSP-43HE-L945

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	3.3
10°-20°	388.0	9.4
20°-30°	587.6	14.3
30°-40°	709.9	17.2
40°-50°	741.5	18.0
50°-60°	679.0	16.5
60°-70°	521.7	12.7
70°-80°	290.5	7.1
80°-90°	64.4	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°	1111.0	27.0
0°-40°	1820.9	44.2
0°-60°	3241.4	78.7
0°-90°	4118.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4118.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1430	1430	1430	1430	1430	
5°	1418	1432	1416	1424	1438	135
15°	1361	1374	1366	1380	1400	384
25°	1253	1268	1265	1284	1307	578
35°	1104	1120	1125	1152	1176	691
45°	922	942	956	984	1004	712
55°	716	739	758	785	801	640
65°	489	514	534	545	552	483
75°	249	275	279	279	281	264
85°	44	52	55	46	43	58
90°	0	0	0	0	0	

TEST NUMBER: P1584309

CATALOG NUMBER: 14CZSP-43HE-L945

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1429.6	1429.6	1429.6	1429.6	1429.6
2.5°	1421.5	1435.0	1424.2	1428.3	1437.7
5°	1417.5	1432.3	1416.1	1424.2	1437.7
7.5°	1408.1	1421.5	1408.1	1417.5	1435.0
10°	1396.0	1410.8	1397.3	1406.7	1424.2
12.5°	1379.8	1391.9	1382.5	1396.0	1413.5
15°	1361.0	1374.4	1366.3	1379.8	1400.0
17.5°	1339.4	1351.5	1344.8	1362.3	1381.1
20°	1312.5	1326.0	1320.6	1338.1	1359.6
22.5°	1285.6	1299.0	1295.0	1312.5	1335.4
25°	1253.3	1268.1	1265.4	1284.2	1307.1
27.5°	1221.0	1235.8	1234.4	1256.0	1277.5
30°	1183.3	1198.1	1200.8	1223.6	1247.9
32.5°	1145.6	1161.7	1163.1	1188.6	1211.5
35°	1103.8	1120.0	1125.4	1152.3	1176.5
37.5°	1062.1	1078.3	1086.3	1111.9	1137.5
40°	1017.7	1035.2	1044.6	1071.5	1094.4
42.5°	973.3	990.8	1001.5	1028.5	1050.0
45°	922.1	942.3	955.8	984.0	1004.2
47.5°	872.3	893.8	908.6	935.6	955.8
50°	821.1	844.0	860.2	887.1	906.0
52.5°	770.0	794.2	810.4	836.0	854.8
55°	716.1	739.0	757.9	784.8	801.0
57.5°	662.3	685.2	705.4	729.6	744.4
60°	605.8	630.0	648.8	673.1	683.8
62.5°	546.5	572.1	591.0	609.8	619.2
65°	488.7	514.2	534.4	545.2	551.9
67.5°	429.4	455.0	473.8	479.2	483.3
70°	368.8	394.4	407.9	410.6	414.6
72.5°	308.3	333.8	344.6	344.6	346.0
75°	249.0	274.6	278.7	278.7	281.3
77.5°	191.2	214.0	216.7	216.7	216.7
80°	136.0	153.5	157.5	157.5	156.2
82.5°	86.2	98.3	105.0	99.6	96.9
85°	44.4	52.5	55.2	45.8	43.1
87.5°	13.5	16.2	13.5	8.1	6.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584309

CATALOG NUMBER: 14CZSP-43HE-L945

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	17.21	18.85	17.57	19.17	19.48	17.71	19.36	18.08	19.67	19.99
	3H	18.98	20.47	19.35	20.79	21.15	19.51	21.00	19.89	21.33	21.69
	4H	19.60	21.00	20.00	21.35	21.73	20.14	21.55	20.54	21.89	22.27
	6H	20.00	21.31	20.41	21.67	22.06	20.56	21.86	20.97	22.23	22.62
	8H	20.10	21.35	20.53	21.73	22.13	20.67	21.91	21.09	22.30	22.70
	12H	20.15	21.34	20.58	21.72	22.15	20.71	21.90	21.14	22.28	22.71
4H	2H	17.93	19.33	18.33	19.68	20.05	18.32	19.73	18.72	20.07	20.45
	3H	19.92	21.10	20.33	21.49	21.89	20.34	21.51	20.75	21.91	22.31
	4H	20.68	21.74	21.11	22.16	22.59	21.09	22.15	21.52	22.57	23.00
	6H	21.20	22.13	21.65	22.57	23.02	21.63	22.56	22.08	23.00	23.45
	8H	21.33	22.20	21.79	22.64	23.11	21.77	22.64	22.23	23.08	23.54
	12H	21.41	22.19	21.89	22.66	23.13	21.83	22.61	22.31	23.09	23.56
8H	4H	21.01	21.88	21.47	22.32	22.79	21.37	22.24	21.83	22.69	23.15
	6H	21.64	22.37	22.14	22.85	23.33	22.01	22.74	22.51	23.22	23.70
	8H	21.84	22.48	22.35	22.99	23.48	22.21	22.86	22.72	23.36	23.85
	12H	21.96	22.53	22.47	23.02	23.58	22.32	22.89	22.82	23.38	23.94
12H	4H	21.04	21.82	21.52	22.30	22.77	21.40	22.18	21.88	22.65	23.12
	6H	21.69	22.34	22.20	22.85	23.33	22.05	22.70	22.56	23.21	23.69
	8H	21.94	22.51	22.44	23.00	23.56	22.30	22.87	22.80	23.36	23.92