

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: P1584594

Luminaire Tested: 14CZSP-A-43HE-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584594
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-A-43HE-L835-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

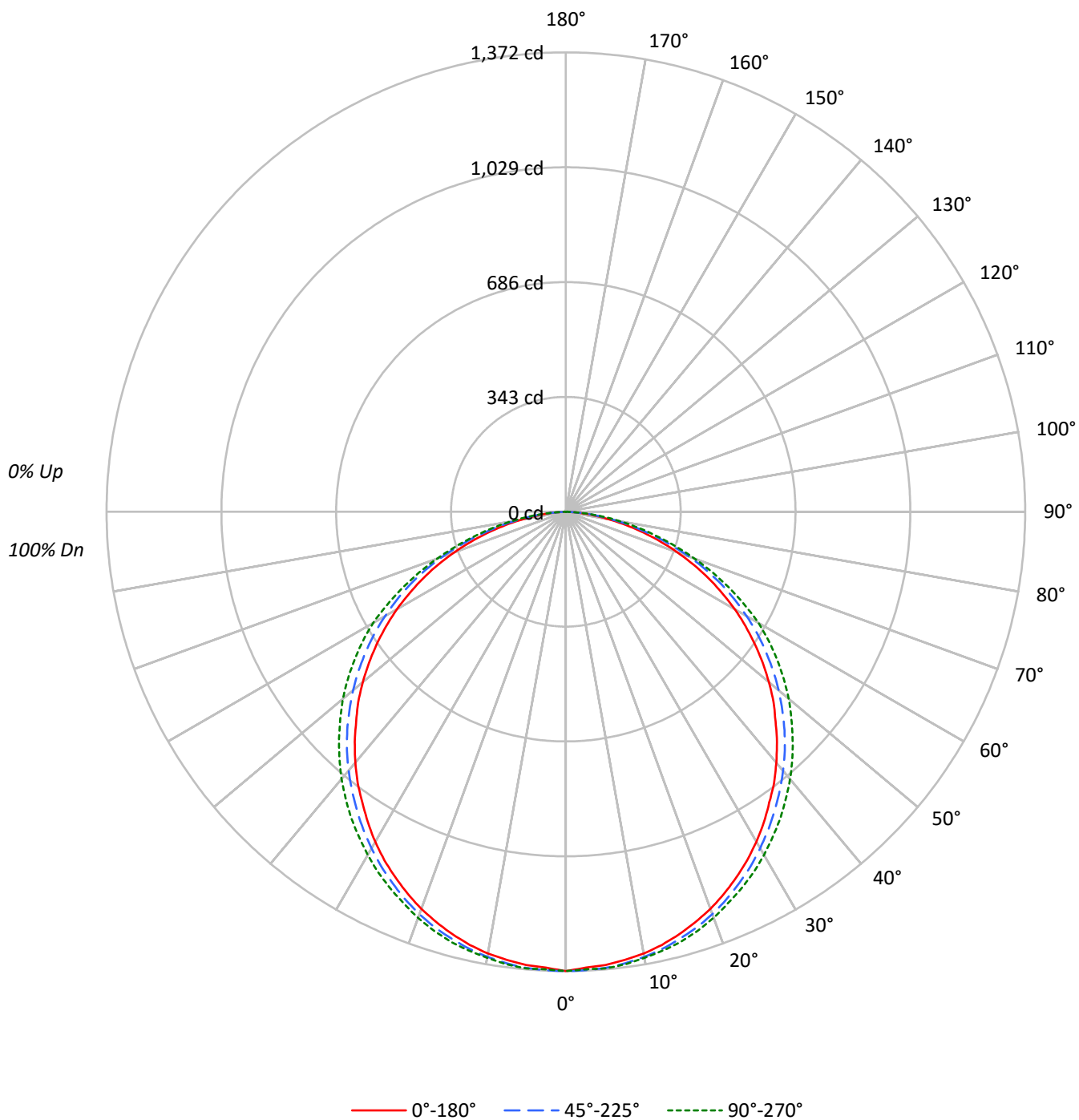
Lumens per Lamp: N/A
Luminaire Lumens: 3966.0 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

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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
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		93	91	88		90
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		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°	4622	4622	4622
5°	4597	4627	4630
10°	4584	4618	4628
15°	4558	4604	4637
20°	4526	4586	4628
25°	4480	4551	4614
30°	4429	4515	4604
35°	4358	4476	4596
40°	4301	4440	4583
45°	4220	4401	4565
50°	4150	4348	4556
55°	4050	4287	4527
60°	3926	4202	4481
65°	3751	4086	4296
70°	3496	3859	4031
75°	3123	3481	3678
80°	2559	2934	3217
85°	1717	2146	2393

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4565 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	3.3
10°-20°	372.5	9.4
20°-30°	564.0	14.2
30°-40°	681.1	17.2
40°-50°	711.8	17.9
50°-60°	652.3	16.4
60°-70°	503.5	12.7
70°-80°	283.2	7.1
80°-90°	67.8	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°	1066.4	26.9
0°-40°	1747.5	44.1
0°-60°	3111.5	78.5
0°-90°	3966.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3966.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1372	1372	1372	1372	1372	
5°	1359	1369	1368	1369	1369	129
15°	1306	1317	1320	1325	1329	369
25°	1205	1215	1224	1231	1241	555
35°	1060	1073	1088	1103	1117	664
45°	886	903	924	942	958	684
55°	689	708	730	752	771	616
65°	470	491	512	533	539	465
75°	240	262	267	278	282	254
85°	44	51	56	61	62	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1371.8	1371.8	1371.8	1371.8	1371.8
2.5°	1362.5	1373.0	1370.7	1374.2	1367.8
5°	1359.0	1368.9	1367.8	1368.9	1368.9
7.5°	1350.2	1360.8	1360.2	1361.9	1363.1
10°	1339.7	1349.7	1349.7	1351.4	1352.6
12.5°	1325.1	1335.6	1336.8	1339.7	1342.1
15°	1306.5	1317.0	1319.9	1325.1	1329.2
17.5°	1285.4	1296.5	1301.2	1306.5	1311.7
20°	1262.1	1272.0	1279.0	1283.1	1290.7
22.5°	1234.7	1245.7	1253.3	1257.4	1265.6
25°	1204.9	1215.4	1224.2	1230.6	1241.1
27.5°	1173.4	1183.9	1194.4	1202.0	1214.2
30°	1138.3	1149.4	1160.5	1172.2	1183.3
32.5°	1100.4	1113.2	1125.5	1138.3	1150.6
35°	1059.5	1073.0	1088.1	1102.7	1117.3
37.5°	1021.6	1033.8	1049.6	1065.4	1080.0
40°	977.8	991.2	1009.3	1026.8	1042.0
42.5°	933.4	948.0	967.9	984.8	1001.2
45°	885.6	903.1	923.5	942.2	958.0
47.5°	841.2	856.4	876.8	897.2	913.6
50°	791.6	808.5	829.5	851.1	869.2
52.5°	741.4	758.9	780.5	802.1	820.8
55°	689.4	707.5	729.7	752.5	770.6
57.5°	636.3	655.6	678.3	701.1	719.2
60°	582.6	601.9	623.5	648.6	664.9
62.5°	526.6	548.2	568.6	591.9	601.9
65°	470.5	490.9	512.5	533.0	538.8
67.5°	413.3	434.3	453.6	467.0	474.6
70°	354.9	377.7	391.7	404.5	409.2
72.5°	297.1	319.9	328.1	340.3	345.0
75°	239.9	262.1	267.4	278.5	282.5
77.5°	184.5	204.9	206.7	219.5	223.0
80°	131.9	148.3	151.2	163.5	165.8
82.5°	84.6	96.3	100.4	110.9	114.4
85°	44.4	50.8	55.5	60.7	61.9
87.5°	14.6	18.1	15.2	15.8	14.6
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	17.03	18.68	17.40	19.00	19.31	17.57	19.22	17.94	19.54	19.85
	3H	18.81	20.30	19.18	20.63	20.99	19.43	20.92	19.80	21.25	21.61
	4H	19.43	20.84	19.83	21.19	21.56	20.10	21.50	20.49	21.85	22.23
	6H	19.84	21.15	20.25	21.51	21.90	20.57	21.88	20.98	22.24	22.63
	8H	19.95	21.19	20.37	21.58	21.98	20.72	21.97	21.14	22.35	22.75
	12H	20.00	21.19	20.42	21.57	22.00	20.80	22.00	21.23	22.38	22.81
4H	2H	17.76	19.16	18.15	19.51	19.89	18.18	19.58	18.58	19.93	20.31
	3H	19.75	20.93	20.16	21.33	21.73	20.25	21.43	20.66	21.83	22.23
	4H	20.51	21.58	20.94	21.99	22.42	21.05	22.11	21.48	22.53	22.96
	6H	21.04	21.97	21.49	22.41	22.86	21.65	22.58	22.10	23.02	23.48
	8H	21.17	22.05	21.63	22.49	22.95	21.84	22.71	22.30	23.16	23.62
	12H	21.25	22.04	21.73	22.51	22.98	21.96	22.75	22.44	23.22	23.69
8H	4H	20.84	21.72	21.30	22.16	22.62	21.32	22.20	21.78	22.64	23.10
	6H	21.49	22.21	21.98	22.70	23.17	22.03	22.76	22.53	23.25	23.72
	8H	21.69	22.34	22.19	22.84	23.33	22.29	22.94	22.80	23.45	23.93
	12H	21.81	22.39	22.32	22.88	23.44	22.47	23.05	22.98	23.54	24.10
12H	4H	20.88	21.67	21.36	22.14	22.61	21.35	22.13	21.83	22.61	23.07
	6H	21.54	22.19	22.05	22.70	23.18	22.07	22.72	22.58	23.23	23.71
	8H	21.79	22.37	22.30	22.86	23.42	22.38	22.95	22.88	23.44	24.00