

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: P1584598

Luminaire Tested: 14CZSP-A-43HE-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584598
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-L845-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 4000 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

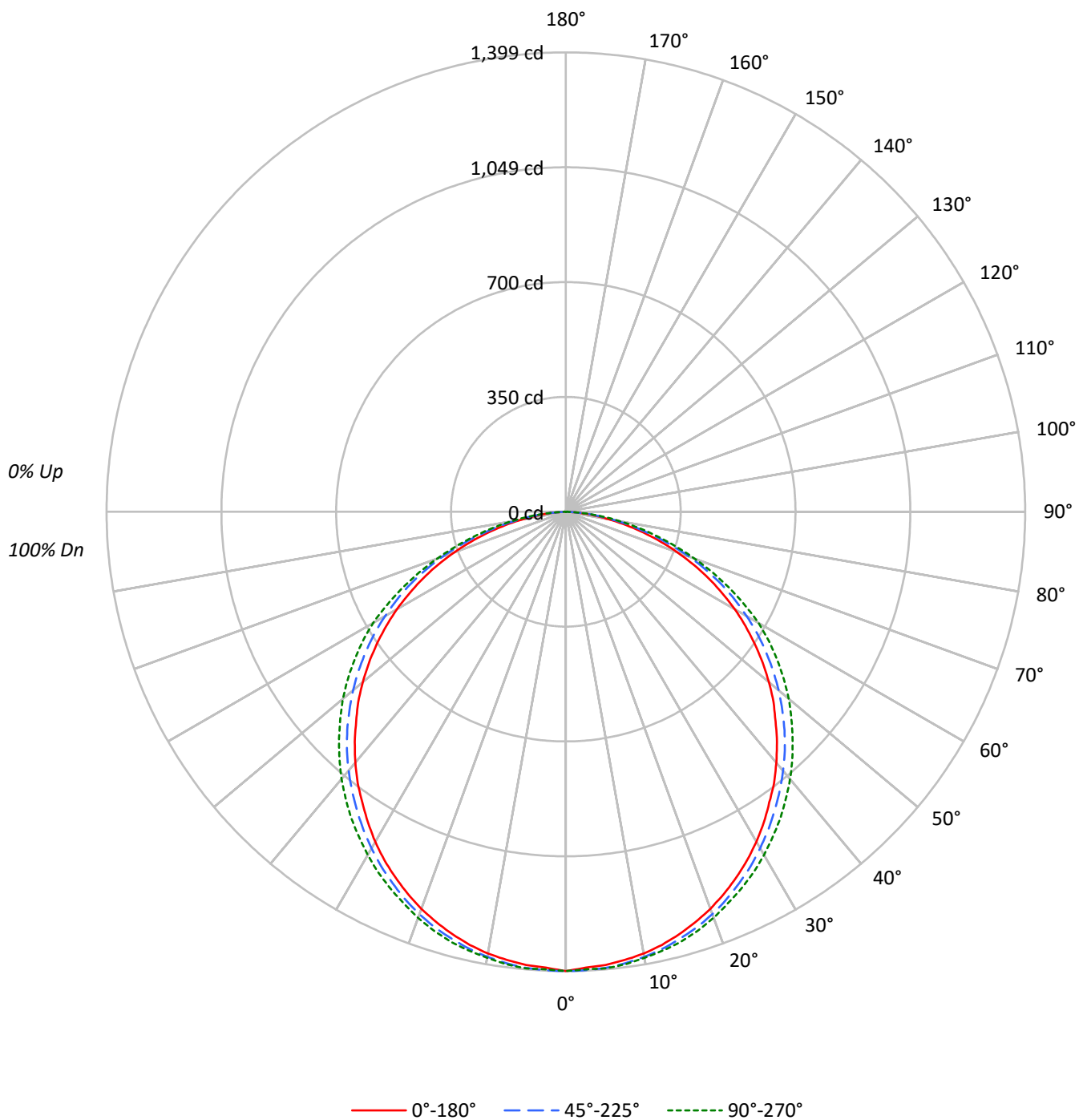
Lumens per Lamp: N/A
Luminaire Lumens: 4044.0 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	4713	4713	4713
5°	4687	4718	4721
10°	4674	4709	4719
15°	4647	4695	4728
20°	4615	4677	4719
25°	4568	4641	4705
30°	4516	4604	4695
35°	4444	4564	4687
40°	4385	4527	4674
45°	4303	4487	4655
50°	4231	4434	4646
55°	4130	4371	4616
60°	4004	4284	4569
65°	3825	4167	4380
70°	3565	3935	4111
75°	3184	3549	3751
80°	2610	2992	3279
85°	1748	2184	2440

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4655 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.5	3.3
10°-20°	379.8	9.4
20°-30°	575.1	14.2
30°-40°	694.5	17.2
40°-50°	725.8	17.9
50°-60°	665.1	16.4
60°-70°	513.4	12.7
70°-80°	288.8	7.1
80°-90°	69.1	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°	1087.4	26.9
0°-40°	1781.9	44.1
0°-60°	3172.7	78.5
0°-90°	4044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4044.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1399	1399	1399	1399	1399	
5°	1386	1396	1395	1396	1396	132
15°	1332	1343	1346	1351	1355	376
25°	1229	1239	1248	1255	1266	566
35°	1080	1094	1110	1124	1139	677
45°	903	921	942	961	977	698
55°	703	721	744	767	786	628
65°	480	501	523	544	549	474
75°	245	267	273	284	288	259
85°	45	52	56	62	63	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1398.8	1398.8	1398.8	1398.8	1398.8
2.5°	1389.3	1400.0	1397.6	1401.2	1394.7
5°	1385.7	1395.8	1394.7	1395.8	1395.8
7.5°	1376.8	1387.5	1386.9	1388.7	1389.9
10°	1366.1	1376.2	1376.2	1378.0	1379.2
12.5°	1351.2	1361.9	1363.1	1366.1	1368.5
15°	1332.2	1342.9	1345.8	1351.2	1355.4
17.5°	1310.7	1322.0	1326.8	1332.2	1337.5
20°	1286.9	1297.0	1304.2	1308.3	1316.1
22.5°	1258.9	1270.3	1278.0	1282.2	1290.5
25°	1228.6	1239.3	1248.2	1254.8	1265.5
27.5°	1196.4	1207.2	1217.9	1225.6	1238.1
30°	1160.7	1172.0	1183.3	1195.2	1206.6
32.5°	1122.0	1135.1	1147.6	1160.7	1173.2
35°	1080.4	1094.1	1109.5	1124.4	1139.3
37.5°	1041.7	1054.2	1070.2	1086.3	1101.2
40°	997.0	1010.7	1029.2	1047.0	1062.5
42.5°	951.8	966.7	986.9	1004.2	1020.8
45°	903.0	920.8	941.7	960.7	976.8
47.5°	857.7	873.2	894.1	914.9	931.6
50°	807.2	824.4	845.8	867.9	886.3
52.5°	756.0	773.8	795.8	817.9	836.9
55°	703.0	721.4	744.1	767.3	785.7
57.5°	648.8	668.5	691.7	714.9	733.3
60°	594.1	613.7	635.7	661.3	678.0
62.5°	536.9	558.9	579.8	603.6	613.7
65°	479.8	500.6	522.6	543.5	549.4
67.5°	421.4	442.9	462.5	476.2	483.9
70°	361.9	385.1	399.4	412.5	417.3
72.5°	303.0	326.2	334.5	347.0	351.8
75°	244.6	267.3	272.6	283.9	288.1
77.5°	188.1	208.9	210.7	223.8	227.4
80°	134.5	151.2	154.2	166.7	169.0
82.5°	86.3	98.2	102.4	113.1	116.7
85°	45.2	51.8	56.5	61.9	63.1
87.5°	14.9	18.5	15.5	16.1	14.9
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	17.10	18.75	17.46	19.06	19.38	17.64	19.29	18.00	19.60	19.92
	3H	18.88	20.37	19.25	20.69	21.05	19.50	20.99	19.87	21.32	21.68
	4H	19.50	20.91	19.90	21.26	21.63	20.16	21.57	20.56	21.92	22.29
	6H	19.91	21.21	20.32	21.58	21.97	20.64	21.95	21.05	22.31	22.70
	8H	20.01	21.26	20.44	21.65	22.05	20.79	22.03	21.21	22.42	22.82
	12H	20.06	21.26	20.49	21.64	22.07	20.87	22.06	21.30	22.45	22.87
4H	2H	17.82	19.23	18.22	19.58	19.95	18.25	19.65	18.64	20.00	20.38
	3H	19.82	21.00	20.23	21.40	21.80	20.32	21.50	20.73	21.89	22.29
	4H	20.58	21.64	21.01	22.06	22.49	21.11	22.18	21.54	22.59	23.03
	6H	21.10	22.04	21.56	22.48	22.93	21.72	22.65	22.17	23.09	23.54
	8H	21.24	22.12	21.70	22.56	23.02	21.91	22.78	22.37	23.22	23.69
	12H	21.32	22.11	21.80	22.58	23.05	22.03	22.81	22.51	23.29	23.76
8H	4H	20.91	21.79	21.37	22.23	22.69	21.39	22.26	21.85	22.71	23.17
	6H	21.55	22.28	22.05	22.77	23.24	22.10	22.83	22.59	23.32	23.79
	8H	21.75	22.40	22.26	22.91	23.39	22.36	23.01	22.87	23.52	24.00
	12H	21.88	22.46	22.39	22.95	23.51	22.54	23.12	23.05	23.61	24.17
12H	4H	20.95	21.74	21.43	22.21	22.68	21.41	22.20	21.89	22.67	23.14
	6H	21.61	22.26	22.12	22.77	23.25	22.14	22.79	22.65	23.30	23.78
	8H	21.86	22.43	22.37	22.92	23.48	22.45	23.02	22.95	23.51	24.07