

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: P1584280

Luminaire Tested: 14CZSP-42-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584280
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-42-L850-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 3500 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

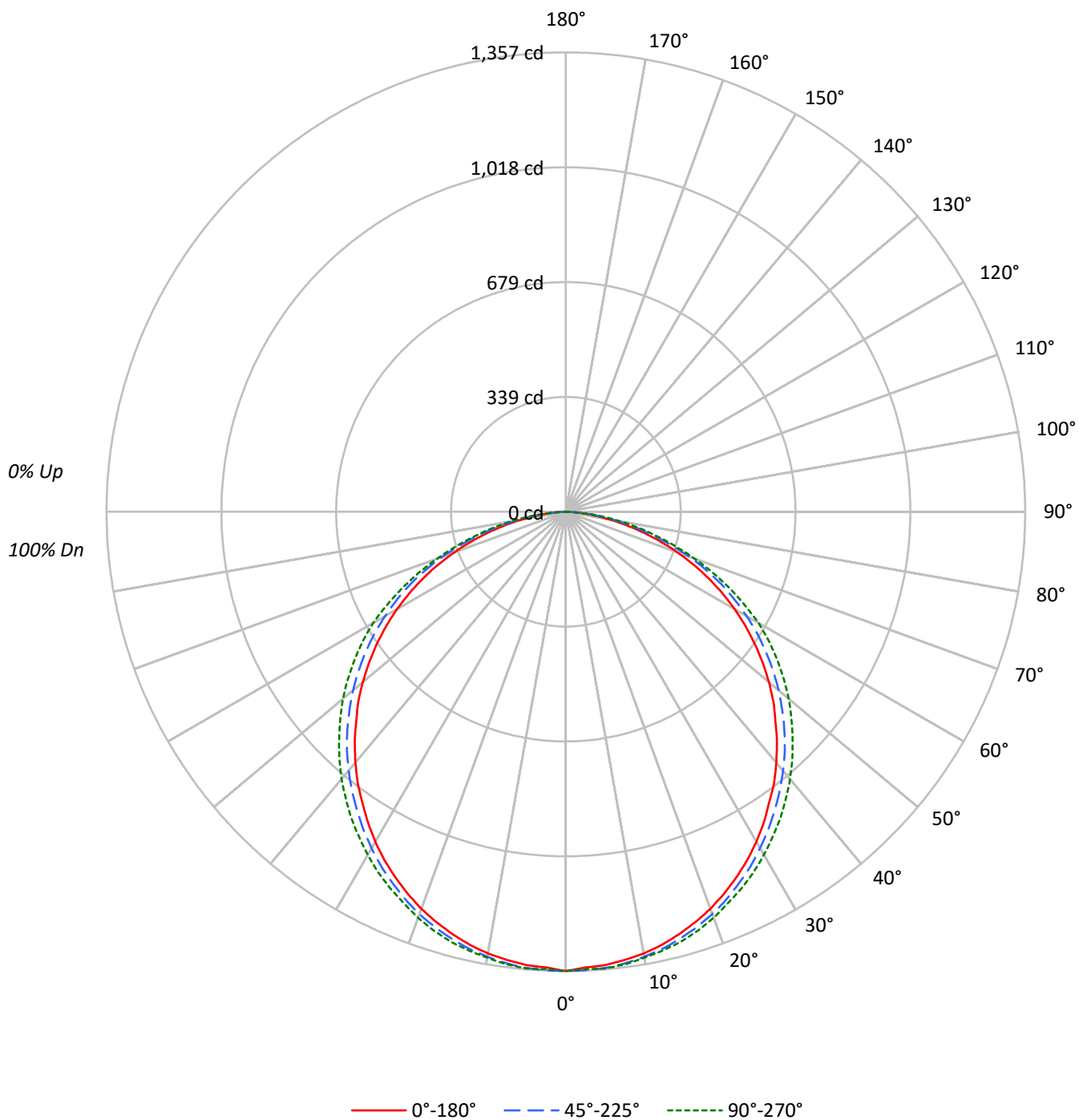
Lumens per Lamp: N/A
Luminaire Lumens: 3922.0 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.5
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			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°	4571	4571	4571
5°	4546	4575	4579
10°	4533	4567	4577
15°	4507	4553	4586
20°	4475	4535	4577
25°	4430	4501	4563
30°	4380	4465	4553
35°	4310	4427	4545
40°	4254	4390	4533
45°	4173	4352	4514
50°	4104	4300	4506
55°	4005	4239	4477
60°	3882	4155	4431
65°	3710	4042	4248
70°	3458	3817	3987
75°	3089	3442	3638
80°	2532	2901	3180
85°	1697	2119	2366

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4514 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.5	3.3
10°-20°	368.3	9.4
20°-30°	557.7	14.2
30°-40°	673.5	17.2
40°-50°	703.9	17.9
50°-60°	645.0	16.4
60°-70°	497.9	12.7
70°-80°	280.1	7.1
80°-90°	67.0	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°	1054.6	26.9
0°-40°	1728.1	44.1
0°-60°	3077.0	78.5
0°-90°	3922.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3922.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1357	1357	1357	1357	1357	
5°	1344	1354	1353	1354	1354	128
15°	1292	1302	1305	1310	1314	365
25°	1192	1202	1211	1217	1227	549
35°	1048	1061	1076	1090	1105	657
45°	876	893	913	932	947	677
55°	682	700	722	744	762	609
65°	465	486	507	527	533	460
75°	237	259	264	275	279	252
85°	44	50	55	60	61	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1356.6	1356.6	1356.6	1356.6	1356.6
2.5°	1347.4	1357.8	1355.5	1358.9	1352.6
5°	1343.9	1353.7	1352.6	1353.7	1353.7
7.5°	1335.3	1345.7	1345.1	1346.8	1348.0
10°	1324.9	1334.7	1334.7	1336.4	1337.6
12.5°	1310.4	1320.8	1322.0	1324.9	1327.2
15°	1292.0	1302.4	1305.2	1310.4	1314.5
17.5°	1271.2	1282.2	1286.8	1292.0	1297.2
20°	1248.1	1257.9	1264.8	1268.9	1276.4
22.5°	1221.0	1231.9	1239.4	1243.5	1251.6
25°	1191.5	1201.9	1210.6	1216.9	1227.3
27.5°	1160.3	1170.7	1181.1	1188.6	1200.8
30°	1125.7	1136.7	1147.6	1159.2	1170.2
32.5°	1088.2	1100.9	1113.0	1125.7	1137.8
35°	1047.8	1061.1	1076.1	1090.5	1104.9
37.5°	1010.3	1022.4	1038.0	1053.5	1068.0
40°	967.0	980.2	998.1	1015.4	1030.5
42.5°	923.1	937.5	957.1	973.9	990.0
45°	875.7	893.1	913.3	931.7	947.3
47.5°	831.9	846.9	867.1	887.3	903.5
50°	782.8	799.5	820.3	841.7	859.6
52.5°	733.2	750.5	771.8	793.2	811.7
55°	681.8	699.7	721.6	744.1	762.0
57.5°	629.2	648.3	670.8	693.3	711.2
60°	576.1	595.2	616.5	641.4	657.5
62.5°	520.7	542.1	562.3	585.4	595.2
65°	465.3	485.5	506.9	527.1	532.8
67.5°	408.7	429.5	448.6	461.8	469.3
70°	351.0	373.5	387.4	400.1	404.7
72.5°	293.8	316.4	324.4	336.6	341.2
75°	237.3	259.2	264.4	275.4	279.4
77.5°	182.4	202.6	204.4	217.1	220.5
80°	130.5	146.6	149.5	161.6	163.9
82.5°	83.7	95.3	99.3	109.7	113.1
85°	43.9	50.2	54.8	60.0	61.2
87.5°	14.4	17.9	15.0	15.6	14.4
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	16.99	18.64	17.36	18.96	19.27	17.53	19.18	17.90	19.50	19.81
	3H	18.77	20.26	19.14	20.59	20.95	19.39	20.88	19.77	21.21	21.57
	4H	19.39	20.80	19.79	21.15	21.52	20.06	21.47	20.46	21.81	22.19
	6H	19.80	21.11	20.21	21.47	21.86	20.53	21.84	20.95	22.20	22.59
	8H	19.91	21.15	20.33	21.54	21.94	20.68	21.93	21.10	22.32	22.71
	12H	19.96	21.15	20.39	21.53	21.96	20.76	21.96	21.19	22.34	22.77
4H	2H	17.72	19.12	18.11	19.47	19.85	18.14	19.55	18.54	19.89	20.27
	3H	19.71	20.89	20.12	21.29	21.69	20.21	21.39	20.62	21.79	22.19
	4H	20.47	21.54	20.90	21.95	22.39	21.01	22.08	21.44	22.49	22.92
	6H	21.00	21.93	21.45	22.37	22.83	21.61	22.54	22.06	22.98	23.44
	8H	21.14	22.01	21.60	22.45	22.92	21.80	22.67	22.26	23.12	23.58
	12H	21.21	22.00	21.69	22.48	22.94	21.92	22.71	22.40	23.18	23.65
8H	4H	20.81	21.68	21.27	22.12	22.59	21.28	22.16	21.74	22.60	23.06
	6H	21.45	22.17	21.94	22.66	23.13	22.00	22.72	22.49	23.21	23.68
	8H	21.65	22.30	22.15	22.80	23.29	22.25	22.90	22.76	23.41	23.89
	12H	21.78	22.35	22.28	22.84	23.40	22.43	23.01	22.94	23.50	24.06
12H	4H	20.84	21.63	21.32	22.10	22.57	21.31	22.09	21.79	22.57	23.04
	6H	21.50	22.15	22.01	22.66	23.14	22.03	22.68	22.54	23.19	23.68
	8H	21.75	22.33	22.26	22.82	23.38	22.34	22.91	22.85	23.41	23.96