

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: P1584278

Luminaire Tested: 14CZSP-42-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584278
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-L845-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

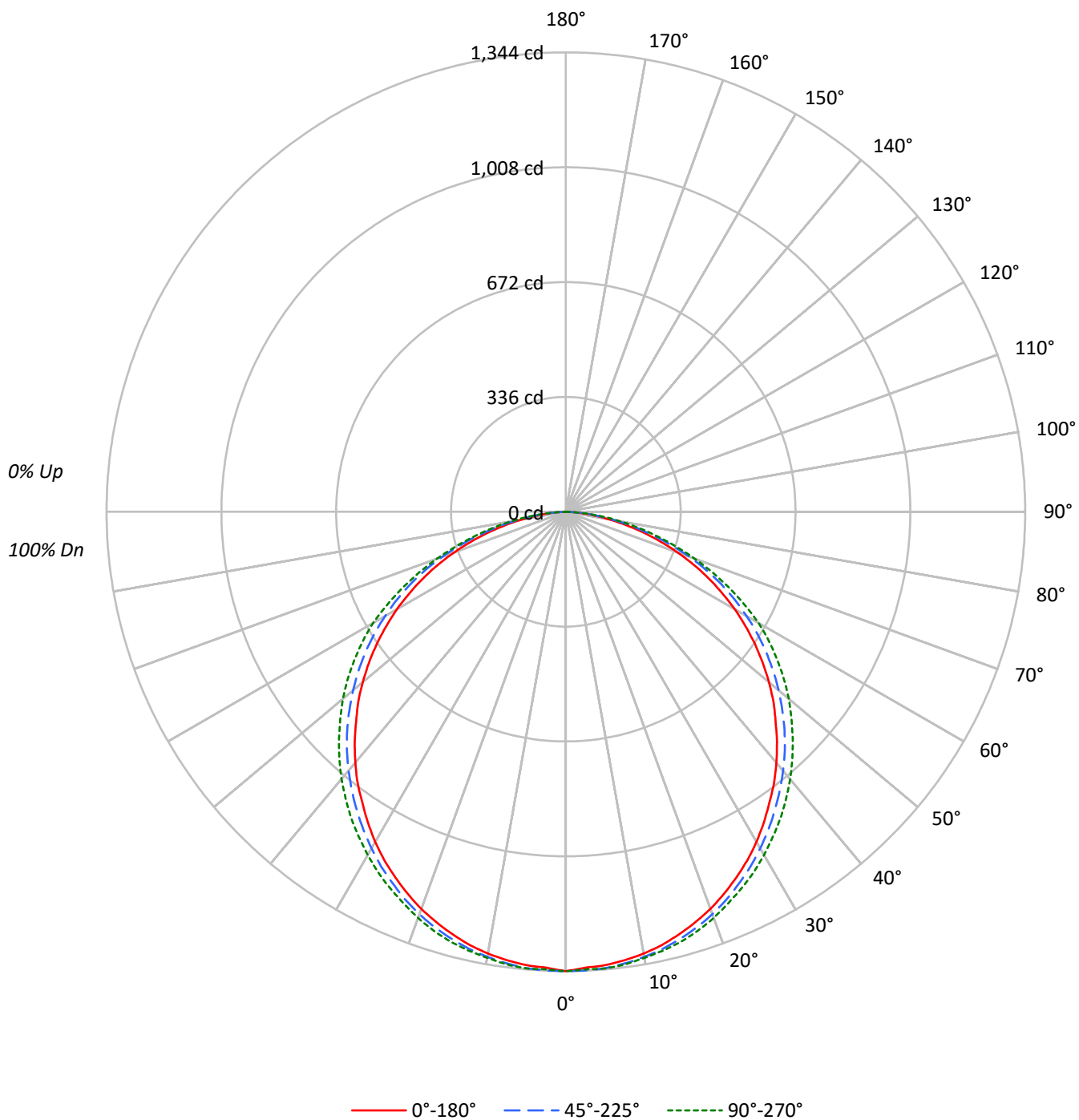
Lumens per Lamp: N/A
Luminaire Lumens: 3886.0 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	4529	4529	4529
5°	4504	4533	4537
10°	4491	4525	4535
15°	4466	4512	4543
20°	4434	4494	4535
25°	4389	4460	4521
30°	4340	4424	4511
35°	4271	4386	4503
40°	4214	4350	4491
45°	4135	4312	4473
50°	4066	4261	4465
55°	3968	4200	4435
60°	3847	4117	4391
65°	3676	4004	4209
70°	3427	3781	3951
75°	3061	3411	3604
80°	2509	2874	3151
85°	1682	2099	2343

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4473 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.3	3.3
10°-20°	365.0	9.4
20°-30°	552.6	14.2
30°-40°	667.4	17.2
40°-50°	697.4	17.9
50°-60°	639.1	16.4
60°-70°	493.3	12.7
70°-80°	277.5	7.1
80°-90°	66.4	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°	1044.9	26.9
0°-40°	1712.3	44.1
0°-60°	3048.8	78.5
0°-90°	3886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3886.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1344	1344	1344	1344	1344	
5°	1332	1341	1340	1341	1341	126
15°	1280	1290	1293	1298	1302	361
25°	1181	1191	1200	1206	1216	544
35°	1038	1051	1066	1080	1095	650
45°	868	885	905	923	939	671
55°	676	693	715	737	755	604
65°	461	481	502	522	528	455
75°	235	257	262	273	277	249
85°	44	50	54	60	61	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1344.2	1344.2	1344.2	1344.2	1344.2
2.5°	1335.0	1345.3	1343.0	1346.5	1340.2
5°	1331.6	1341.3	1340.2	1341.3	1341.3
7.5°	1323.0	1333.3	1332.7	1334.4	1335.6
10°	1312.7	1322.4	1322.4	1324.2	1325.3
12.5°	1298.4	1308.7	1309.9	1312.7	1315.0
15°	1280.1	1290.4	1293.3	1298.4	1302.4
17.5°	1259.5	1270.4	1275.0	1280.1	1285.3
20°	1236.6	1246.4	1253.2	1257.2	1264.7
22.5°	1209.8	1220.6	1228.1	1232.1	1240.1
25°	1180.6	1190.9	1199.5	1205.7	1216.0
27.5°	1149.7	1160.0	1170.3	1177.7	1189.7
30°	1115.4	1126.2	1137.1	1148.6	1159.4
32.5°	1078.2	1090.8	1102.8	1115.4	1127.4
35°	1038.2	1051.3	1066.2	1080.5	1094.8
37.5°	1001.0	1013.0	1028.4	1043.9	1058.2
40°	958.1	971.2	989.0	1006.1	1021.0
42.5°	914.6	928.9	948.4	964.9	981.0
45°	867.7	884.9	904.9	923.2	938.6
47.5°	824.2	839.1	859.1	879.1	895.2
50°	775.6	792.2	812.8	834.0	851.7
52.5°	726.4	743.6	764.7	785.9	804.2
55°	675.5	693.2	715.0	737.3	755.0
57.5°	623.5	642.3	664.6	687.0	704.7
60°	570.8	589.7	610.9	635.5	651.5
62.5°	515.9	537.1	557.1	580.0	589.7
65°	461.0	481.0	502.2	522.2	527.9
67.5°	405.0	425.6	444.4	457.6	465.0
70°	347.8	370.1	383.8	396.4	401.0
72.5°	291.1	313.4	321.5	333.5	338.0
75°	235.1	256.8	262.0	272.8	276.8
77.5°	180.7	200.8	202.5	215.1	218.5
80°	129.3	145.3	148.1	160.2	162.4
82.5°	82.9	94.4	98.4	108.7	112.1
85°	43.5	49.8	54.3	59.5	60.6
87.5°	14.3	17.7	14.9	15.4	14.3
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	16.96	18.61	17.33	18.92	19.24	17.50	19.15	17.87	19.47	19.78
	3H	18.74	20.23	19.11	20.56	20.92	19.36	20.85	19.73	21.18	21.54
	4H	19.36	20.77	19.76	21.12	21.49	20.03	21.43	20.42	21.78	22.16
	6H	19.77	21.08	20.18	21.44	21.83	20.50	21.81	20.91	22.17	22.56
	8H	19.87	21.12	20.30	21.51	21.91	20.65	21.90	21.07	22.28	22.68
	12H	19.92	21.12	20.35	21.50	21.93	20.73	21.93	21.16	22.31	22.74
4H	2H	17.68	19.09	18.08	19.44	19.81	18.11	19.51	18.51	19.86	20.24
	3H	19.68	20.86	20.09	21.26	21.66	20.18	21.36	20.59	21.76	22.16
	4H	20.44	21.51	20.87	21.92	22.35	20.98	22.04	21.41	22.46	22.89
	6H	20.96	21.90	21.42	22.34	22.79	21.58	22.51	22.03	22.95	23.41
	8H	21.10	21.98	21.56	22.42	22.88	21.77	22.64	22.23	23.08	23.55
	12H	21.18	21.97	21.66	22.44	22.91	21.89	22.68	22.37	23.15	23.62
8H	4H	20.77	21.65	21.23	22.09	22.55	21.25	22.12	21.71	22.57	23.03
	6H	21.41	22.14	21.91	22.63	23.10	21.96	22.69	22.46	23.18	23.65
	8H	21.61	22.27	22.12	22.77	23.26	22.22	22.87	22.73	23.38	23.86
	12H	21.74	22.32	22.25	22.81	23.37	22.40	22.98	22.91	23.47	24.03
12H	4H	20.81	21.60	21.29	22.07	22.54	21.27	22.06	21.75	22.54	23.00
	6H	21.47	22.12	21.98	22.63	23.11	22.00	22.65	22.51	23.16	23.64
	8H	21.72	22.30	22.23	22.79	23.35	22.31	22.88	22.81	23.37	23.93