

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: P1585676

Luminaire Tested: 14CZSP-SB-42-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-42-L840-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

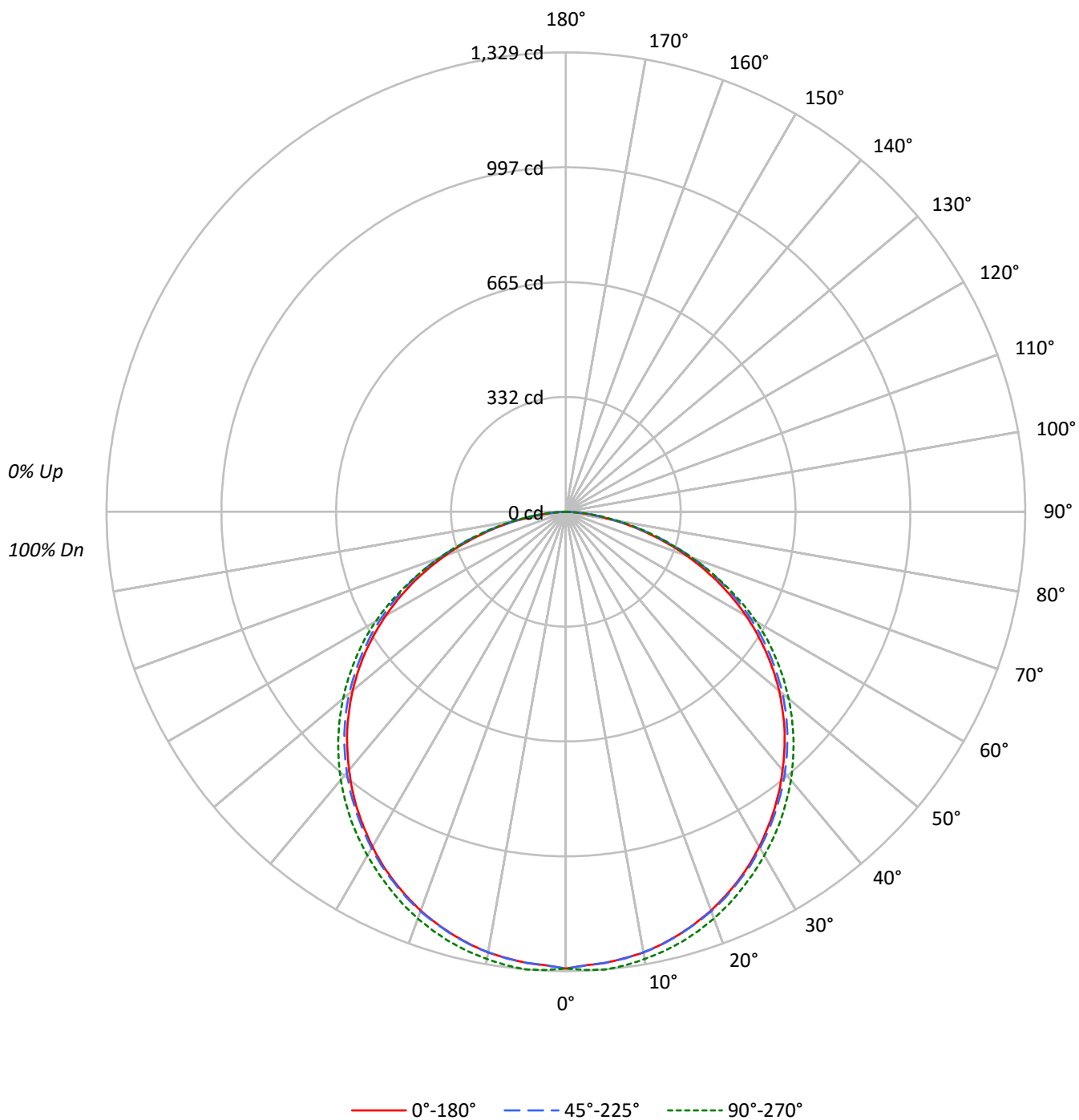
Lumens per Lamp: N/A
Luminaire Lumens: 3900.0 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	99	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	43
6	70	56	47	40	68	55	46	40	53	46	40		52	45	40		50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4453	4453	4453
5°	4432	4430	4496
10°	4430	4428	4495
15°	4416	4421	4498
20°	4403	4411	4491
25°	4380	4392	4476
30°	4354	4373	4468
35°	4326	4353	4466
40°	4292	4337	4458
45°	4266	4320	4439
50°	4223	4289	4411
55°	4158	4234	4368
60°	4057	4161	4290
65°	3904	4052	4095
70°	3671	3842	3819
75°	3296	3437	3459
80°	2722	2862	3014
85°	1825	2123	2239

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4439 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.3	3.2
10°-20°	360.0	9.2
20°-30°	548.3	14.1
30°-40°	667.2	17.1
40°-50°	703.4	18.0
50°-60°	647.9	16.6
60°-70°	500.4	12.8
70°-80°	280.0	7.2
80°-90°	67.5	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°	1033.5	26.5
0°-40°	1700.8	43.6
0°-60°	3052.1	78.3
0°-90°	3900.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3900.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1322	1322	1322	1322	1322	
5°	1310	1329	1310	1311	1329	125
15°	1266	1283	1267	1274	1289	357
25°	1178	1195	1181	1189	1204	543
35°	1052	1067	1058	1071	1086	658
45°	895	908	906	920	932	690
55°	708	720	721	736	744	632
65°	490	504	508	513	514	484
75°	253	269	264	263	266	268
85°	47	52	55	62	58	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1321.6	1321.6	1321.6	1321.6	1321.6
2.5°	1313.2	1332.3	1313.2	1316.2	1326.9
5°	1310.2	1328.7	1309.6	1311.4	1329.3
7.5°	1302.5	1321.6	1303.7	1306.0	1323.4
10°	1294.7	1312.0	1294.1	1297.1	1313.8
12.5°	1281.6	1299.5	1282.7	1286.3	1303.1
15°	1266.0	1283.3	1267.2	1274.4	1289.3
17.5°	1248.1	1264.8	1249.3	1257.7	1272.0
20°	1227.8	1243.9	1230.2	1236.2	1252.3
22.5°	1203.9	1220.6	1207.5	1212.9	1230.2
25°	1178.2	1195.0	1181.2	1189.0	1203.9
27.5°	1150.2	1166.3	1154.4	1163.9	1177.0
30°	1119.1	1134.6	1123.9	1135.2	1148.4
32.5°	1085.7	1102.4	1091.7	1104.8	1117.9
35°	1051.6	1067.2	1058.2	1071.3	1085.7
37.5°	1014.6	1029.5	1023.0	1036.7	1049.8
40°	975.8	992.5	985.9	1000.3	1013.4
42.5°	935.8	951.9	946.5	961.5	972.8
45°	895.2	907.7	906.5	920.3	931.6
47.5°	850.4	865.9	863.5	877.3	887.4
50°	805.6	818.1	818.1	831.3	841.4
52.5°	757.2	769.8	769.8	785.3	793.7
55°	707.7	719.6	720.8	735.7	743.5
57.5°	655.1	667.7	670.0	685.0	692.1
60°	602.0	613.9	617.5	632.4	636.6
62.5°	546.4	560.8	562.5	574.5	576.9
65°	489.7	504.0	508.2	513.0	513.6
67.5°	431.8	446.7	450.9	450.9	450.9
70°	372.6	386.4	390.0	387.6	387.6
72.5°	312.9	327.9	326.1	323.7	324.9
75°	253.2	268.7	264.0	263.4	265.7
77.5°	195.9	210.8	203.0	207.8	208.4
80°	140.3	151.7	147.5	154.7	155.3
82.5°	90.2	97.3	98.5	104.5	102.7
85°	47.2	52.0	54.9	61.5	57.9
87.5°	14.9	19.7	17.9	20.9	16.1
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	17.22	18.88	17.59	19.19	19.51	17.44	19.10	17.81	19.41	19.72
	3H	19.05	20.54	19.42	20.87	21.23	19.24	20.74	19.62	21.07	21.43
	4H	19.69	21.10	20.09	21.45	21.83	19.88	21.29	20.28	21.64	22.01
	6H	20.12	21.43	20.53	21.79	22.18	20.33	21.64	20.74	22.01	22.40
	8H	20.23	21.48	20.65	21.87	22.27	20.46	21.71	20.89	22.10	22.50
	12H	20.28	21.48	20.71	21.86	22.29	20.54	21.74	20.97	22.12	22.55
4H	2H	17.90	19.32	18.30	19.66	20.04	18.07	19.49	18.47	19.83	20.21
	3H	19.94	21.13	20.35	21.53	21.93	20.09	21.27	20.50	21.67	22.07
	4H	20.72	21.80	21.16	22.21	22.64	20.85	21.92	21.28	22.33	22.77
	6H	21.27	22.21	21.73	22.65	23.11	21.42	22.36	21.87	22.80	23.25
	8H	21.42	22.30	21.88	22.74	23.20	21.59	22.47	22.05	22.91	23.38
	12H	21.50	22.29	21.98	22.77	23.24	21.71	22.50	22.19	22.97	23.44
8H	4H	21.03	21.91	21.49	22.35	22.82	21.14	22.02	21.60	22.46	22.92
	6H	21.69	22.42	22.18	22.91	23.38	21.82	22.55	22.31	23.04	23.51
	8H	21.90	22.55	22.40	23.06	23.54	22.06	22.71	22.57	23.22	23.70
	12H	22.03	22.61	22.54	23.10	23.66	22.24	22.81	22.74	23.30	23.86
12H	4H	21.06	21.85	21.54	22.33	22.79	21.17	21.96	21.65	22.43	22.90
	6H	21.74	22.39	22.24	22.90	23.38	21.86	22.52	22.37	23.02	23.51
	8H	21.99	22.57	22.50	23.06	23.62	22.15	22.73	22.66	23.22	23.78