

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: P1585678

Luminaire Tested: 14CZSP-SB-42-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585678
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-L845-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

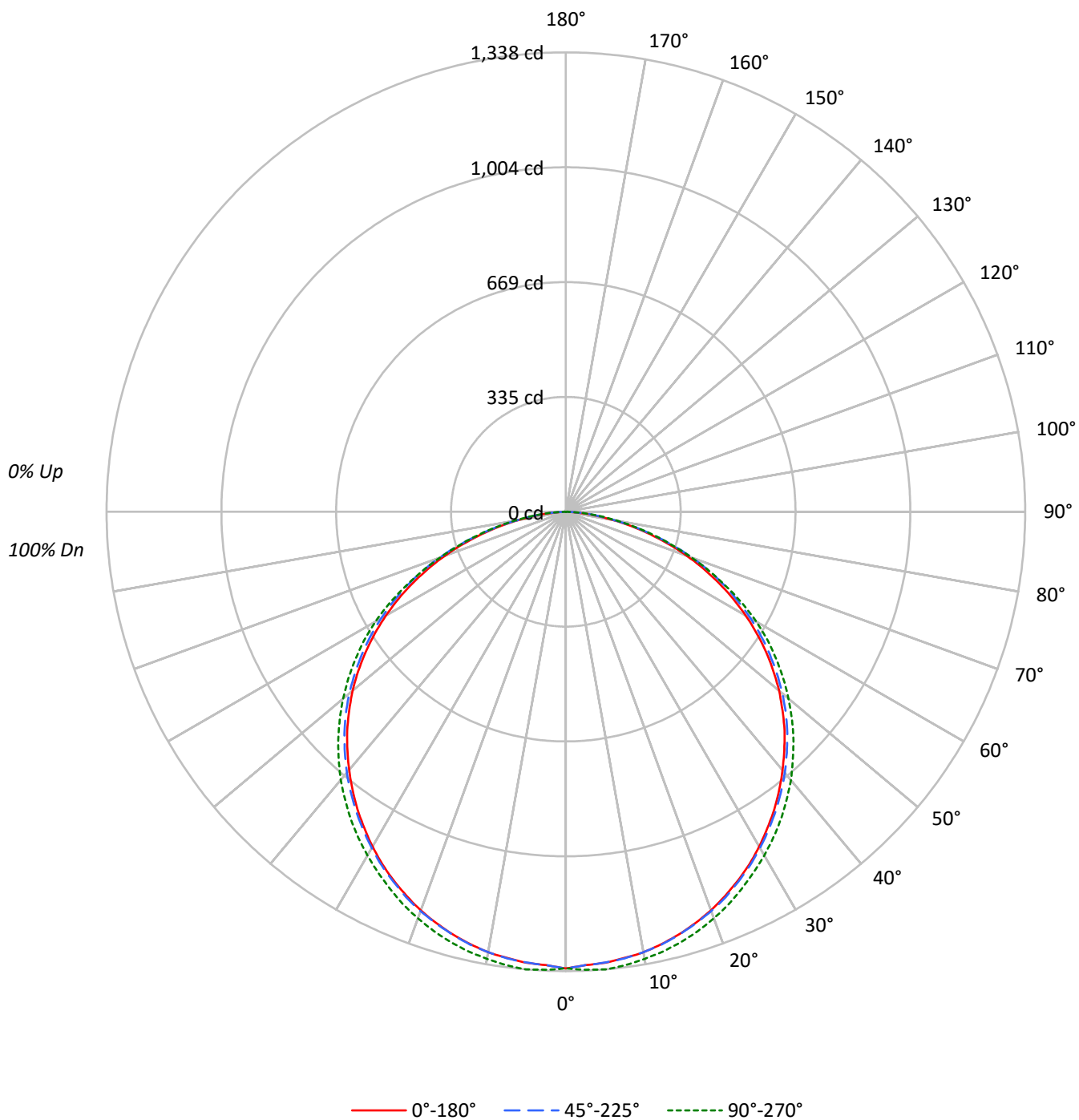
Lumens per Lamp: N/A
Luminaire Lumens: 3925.0 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	4482	4482	4482
5°	4460	4458	4525
10°	4458	4456	4524
15°	4445	4449	4527
20°	4431	4440	4519
25°	4409	4420	4505
30°	4382	4401	4497
35°	4354	4381	4494
40°	4320	4365	4486
45°	4293	4347	4468
50°	4250	4316	4439
55°	4184	4261	4396
60°	4083	4188	4318
65°	3929	4078	4121
70°	3694	3867	3843
75°	3317	3458	3483
80°	2740	2880	3033
85°	1836	2138	2254

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4468 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	3.2
10°-20°	362.3	9.2
20°-30°	551.8	14.1
30°-40°	671.5	17.1
40°-50°	707.9	18.0
50°-60°	652.0	16.6
60°-70°	503.6	12.8
70°-80°	281.8	7.2
80°-90°	67.9	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°	1040.2	26.5
0°-40°	1711.7	43.6
0°-60°	3071.7	78.3
0°-90°	3925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3925.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1330	1330	1330	1330	1330	
5°	1319	1337	1318	1320	1338	125
15°	1274	1292	1275	1283	1298	360
25°	1186	1203	1189	1197	1212	547
35°	1058	1074	1065	1078	1093	662
45°	901	914	912	926	938	694
55°	712	724	725	740	748	636
65°	493	507	512	516	517	487
75°	255	270	266	265	268	270
85°	48	52	55	62	58	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1330.0	1330.0	1330.0	1330.0	1330.0
2.5°	1321.6	1340.9	1321.6	1324.6	1335.4
5°	1318.6	1337.3	1318.0	1319.8	1337.9
7.5°	1310.8	1330.0	1312.0	1314.4	1331.8
10°	1303.0	1320.4	1302.4	1305.4	1322.2
12.5°	1289.8	1307.8	1291.0	1294.6	1311.4
15°	1274.1	1291.6	1275.3	1282.6	1297.6
17.5°	1256.1	1272.9	1257.3	1265.7	1280.2
20°	1235.7	1251.9	1238.1	1244.1	1260.3
22.5°	1211.6	1228.5	1215.2	1220.7	1238.1
25°	1185.8	1202.6	1188.8	1196.6	1211.6
27.5°	1157.5	1173.8	1161.8	1171.4	1184.6
30°	1126.3	1141.9	1131.1	1142.5	1155.7
32.5°	1092.6	1109.5	1098.6	1111.9	1125.1
35°	1058.4	1074.0	1065.0	1078.2	1092.6
37.5°	1021.1	1036.1	1029.5	1043.4	1056.6
40°	982.1	998.9	992.3	1006.7	1019.9
42.5°	941.8	958.0	952.6	967.6	979.0
45°	900.9	913.5	912.3	926.2	937.6
47.5°	855.8	871.5	869.1	882.9	893.1
50°	810.8	823.4	823.4	836.6	846.8
52.5°	762.1	774.7	774.7	790.3	798.7
55°	712.2	724.2	725.4	740.4	748.3
57.5°	659.3	671.9	674.3	689.4	696.6
60°	605.8	617.8	621.4	636.5	640.7
62.5°	549.9	564.3	566.2	578.2	580.6
65°	492.8	507.3	511.5	516.3	516.9
67.5°	434.5	449.6	453.8	453.8	453.8
70°	375.0	388.9	392.5	390.1	390.1
72.5°	314.9	330.0	328.2	325.7	327.0
75°	254.8	270.5	265.6	265.0	267.5
77.5°	197.1	212.2	204.3	209.2	209.8
80°	141.2	152.7	148.4	155.7	156.3
82.5°	90.8	98.0	99.2	105.2	103.4
85°	47.5	52.3	55.3	61.9	58.3
87.5°	15.0	19.8	18.0	21.0	16.2
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	17.25	18.90	17.61	19.22	19.53	17.46	19.12	17.83	19.43	19.75
	3H	19.07	20.57	19.44	20.89	21.25	19.26	20.76	19.64	21.09	21.45
	4H	19.71	21.13	20.11	21.47	21.85	19.90	21.31	20.30	21.66	22.04
	6H	20.14	21.45	20.55	21.82	22.21	20.35	21.66	20.76	22.03	22.42
	8H	20.25	21.50	20.67	21.89	22.29	20.49	21.74	20.91	22.13	22.52
	12H	20.30	21.50	20.73	21.89	22.31	20.56	21.76	20.99	22.14	22.57
4H	2H	17.93	19.34	18.32	19.68	20.06	18.10	19.51	18.49	19.86	20.23
	3H	19.97	21.15	20.38	21.55	21.95	20.11	21.29	20.52	21.69	22.09
	4H	20.75	21.82	21.18	22.23	22.67	20.87	21.94	21.30	22.35	22.79
	6H	21.30	22.23	21.75	22.67	23.13	21.44	22.38	21.90	22.82	23.27
	8H	21.44	22.32	21.90	22.76	23.23	21.62	22.49	22.08	22.94	23.40
	12H	21.53	22.31	22.01	22.79	23.26	21.73	22.52	22.21	22.99	23.46
8H	4H	21.05	21.93	21.51	22.37	22.84	21.16	22.04	21.62	22.48	22.95
	6H	21.71	22.44	22.21	22.93	23.40	21.84	22.57	22.34	23.06	23.53
	8H	21.92	22.57	22.43	23.08	23.56	22.08	22.74	22.59	23.24	23.73
	12H	22.05	22.63	22.56	23.12	23.68	22.26	22.84	22.77	23.33	23.89
12H	4H	21.08	21.87	21.56	22.35	22.82	21.19	21.98	21.67	22.45	22.92
	6H	21.76	22.41	22.27	22.92	23.40	21.89	22.54	22.39	23.05	23.53
	8H	22.01	22.59	22.52	23.08	23.64	22.18	22.75	22.68	23.24	23.80