

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: P1585689

Luminaire Tested: 14CZSP-SB-42-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-42-L945
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

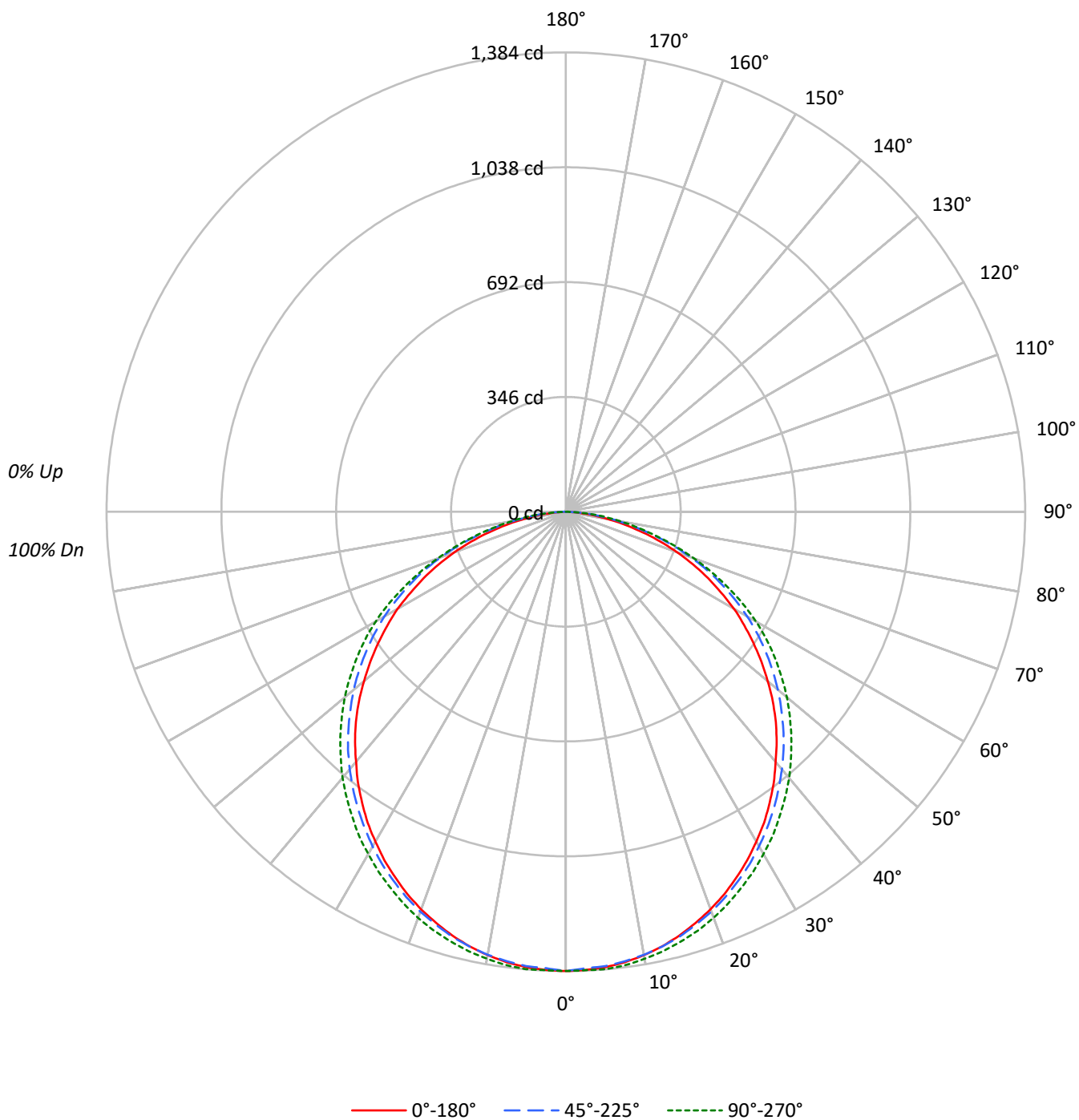
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3997.0 lumens
Efficiency: N/A
Efficacy: 140.2 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	79	75		82	77	73		79	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	40	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	58	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°	4662	4662	4662
5°	4658	4646	4678
10°	4641	4637	4679
15°	4611	4621	4676
20°	4571	4598	4668
25°	4521	4564	4649
30°	4465	4530	4633
35°	4403	4493	4616
40°	4326	4455	4604
45°	4264	4415	4579
50°	4162	4374	4558
55°	4055	4316	4522
60°	3946	4252	4462
65°	3769	4140	4292
70°	3517	3954	4050
75°	3134	3583	3688
80°	2558	3107	3262
85°	1693	2470	2648

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4579 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.0	3.3
10°-20°	375.4	9.4
20°-30°	568.3	14.2
30°-40°	686.0	17.2
40°-50°	716.4	17.9
50°-60°	655.3	16.4
60°-70°	506.6	12.7
70°-80°	286.8	7.2
80°-90°	71.2	1.8
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°	1074.7	26.9
0°-40°	1760.6	44.0
0°-60°	3132.3	78.4
0°-90°	3997.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3997.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1384	1384	1384	1384	1384	
5°	1377	1387	1374	1375	1383	131
15°	1322	1333	1325	1331	1340	373
25°	1216	1232	1228	1239	1250	560
35°	1070	1085	1092	1111	1122	670
45°	895	912	926	950	961	689
55°	690	711	735	758	770	617
65°	473	492	519	535	538	467
75°	241	261	275	282	283	255
85°	44	51	64	67	68	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1383.5	1383.5	1383.5	1383.5	1383.5
2.5°	1381.8	1391.6	1376.6	1379.5	1382.4
5°	1377.2	1387.0	1373.7	1374.9	1383.0
7.5°	1368.6	1379.5	1365.7	1368.0	1377.8
10°	1356.5	1367.4	1355.3	1357.6	1367.4
12.5°	1340.9	1351.9	1341.5	1345.0	1355.9
15°	1321.9	1333.4	1324.8	1331.1	1340.3
17.5°	1298.9	1313.3	1304.1	1313.9	1323.1
20°	1274.7	1289.1	1282.2	1290.8	1301.8
22.5°	1247.1	1261.5	1256.3	1265.5	1277.6
25°	1216.0	1231.5	1227.5	1239.0	1250.5
27.5°	1183.7	1198.7	1197.6	1210.2	1222.3
30°	1147.5	1163.6	1164.2	1179.1	1190.7
32.5°	1111.2	1125.6	1129.0	1145.7	1159.0
35°	1070.3	1085.3	1092.2	1110.6	1122.1
37.5°	1028.9	1045.6	1053.0	1073.2	1085.3
40°	983.4	1002.4	1012.7	1034.0	1046.7
42.5°	940.2	957.5	971.3	992.6	1004.1
45°	894.7	912.0	926.4	950.0	960.9
47.5°	845.8	864.8	880.3	903.4	915.4
50°	794.0	814.7	834.3	856.7	869.4
52.5°	742.7	762.9	785.3	807.2	819.9
55°	690.3	711.1	734.7	757.7	769.8
57.5°	637.4	658.1	684.0	704.7	717.4
60°	585.5	604.5	631.0	651.8	662.1
62.5°	526.8	548.7	575.8	596.5	602.2
65°	472.7	492.3	519.3	534.9	538.3
67.5°	415.1	434.7	461.8	470.4	475.6
70°	357.0	377.7	401.3	407.1	411.1
72.5°	298.2	319.5	338.0	343.7	347.2
75°	240.7	261.4	275.2	282.1	283.3
77.5°	184.8	203.8	216.5	224.5	224.5
80°	131.8	146.2	160.1	168.7	168.1
82.5°	84.1	95.0	109.4	115.7	119.8
85°	43.8	50.7	63.9	66.8	68.5
87.5°	13.8	17.8	23.0	19.0	18.4
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	17.03	18.68	17.39	18.99	19.31	17.57	19.22	17.93	19.53	19.85
	3H	18.80	20.30	19.18	20.62	20.98	19.43	20.92	19.81	21.25	21.61
	4H	19.43	20.83	19.82	21.18	21.56	20.10	21.51	20.50	21.86	22.23
	6H	19.83	21.14	20.24	21.50	21.89	20.59	21.89	21.00	22.26	22.65
	8H	19.93	21.18	20.35	21.57	21.97	20.74	21.99	21.17	22.38	22.78
	12H	19.98	21.17	20.41	21.56	21.98	20.84	22.04	21.27	22.42	22.85
4H	2H	17.77	19.18	18.17	19.52	19.90	18.19	19.60	18.59	19.94	20.32
	3H	19.76	20.94	20.17	21.34	21.74	20.27	21.45	20.68	21.85	22.25
	4H	20.51	21.58	20.94	21.99	22.43	21.07	22.14	21.50	22.55	22.99
	6H	21.03	21.96	21.48	22.40	22.86	21.68	22.62	22.14	23.06	23.51
	8H	21.16	22.04	21.62	22.48	22.94	21.89	22.76	22.35	23.20	23.67
	12H	21.24	22.03	21.72	22.50	22.97	22.03	22.81	22.51	23.29	23.76
8H	4H	20.86	21.74	21.32	22.18	22.65	21.36	22.23	21.82	22.68	23.14
	6H	21.50	22.22	21.99	22.71	23.19	22.09	22.82	22.58	23.31	23.78
	8H	21.69	22.34	22.20	22.85	23.33	22.36	23.02	22.87	23.52	24.01
	12H	21.82	22.39	22.32	22.88	23.44	22.57	23.15	23.08	23.64	24.20
12H	4H	20.91	21.69	21.38	22.17	22.64	21.38	22.17	21.86	22.64	23.11
	6H	21.56	22.21	22.07	22.72	23.21	22.13	22.79	22.64	23.29	23.78
	8H	21.81	22.39	22.32	22.88	23.44	22.46	23.04	22.97	23.53	24.09