

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: P1585677

Luminaire Tested: 14CZSP-SB-42-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585677
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-L840
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

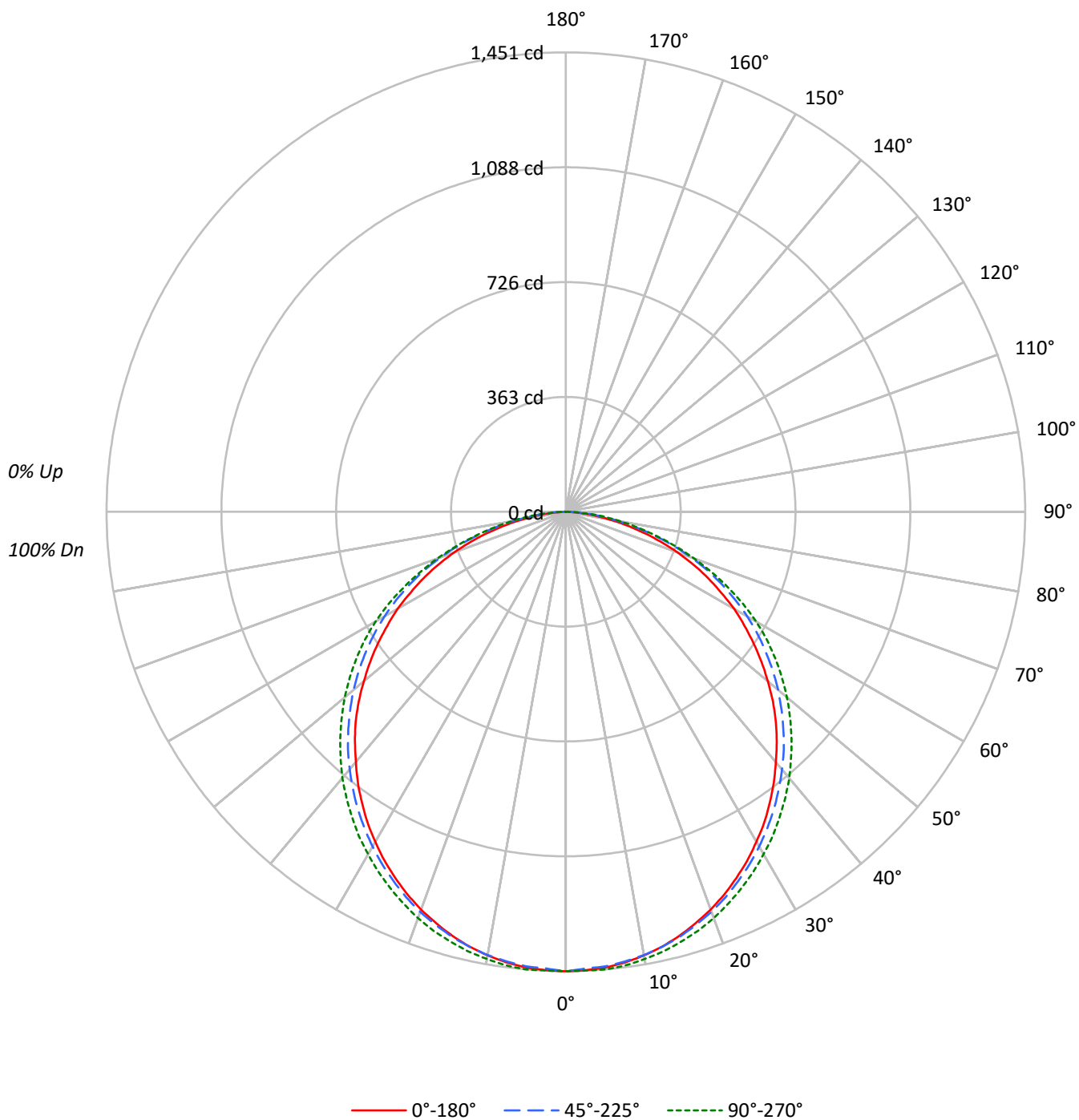
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4193.0 lumens
Efficiency: N/A
Efficacy: 147.1 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	99	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°	4891	4891	4891
5°	4887	4874	4907
10°	4869	4865	4908
15°	4837	4848	4905
20°	4795	4823	4897
25°	4743	4788	4878
30°	4683	4752	4860
35°	4619	4713	4842
40°	4538	4673	4830
45°	4473	4631	4804
50°	4366	4588	4781
55°	4254	4528	4744
60°	4140	4461	4681
65°	3954	4344	4502
70°	3690	4148	4248
75°	3287	3759	3869
80°	2684	3258	3423
85°	1775	2590	2780

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4804 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.5	3.3
10°-20°	393.8	9.4
20°-30°	596.2	14.2
30°-40°	719.6	17.2
40°-50°	751.5	17.9
50°-60°	687.5	16.4
60°-70°	531.5	12.7
70°-80°	300.9	7.2
80°-90°	74.8	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°	1127.4	26.9
0°-40°	1847.0	44.0
0°-60°	3285.9	78.4
0°-90°	4193.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4193.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1451	1451	1451	1451	1451	
5°	1445	1455	1441	1442	1451	137
15°	1387	1399	1390	1396	1406	391
25°	1276	1292	1288	1300	1312	588
35°	1123	1138	1146	1165	1177	702
45°	939	957	972	997	1008	723
55°	724	746	771	795	808	648
65°	496	516	545	561	565	489
75°	252	274	289	296	297	268
85°	46	53	67	70	72	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1451.4	1451.4	1451.4	1451.4	1451.4
2.5°	1449.6	1459.8	1444.1	1447.1	1450.2
5°	1444.7	1455.0	1441.1	1442.3	1450.8
7.5°	1435.7	1447.1	1432.7	1435.1	1445.3
10°	1423.0	1434.5	1421.8	1424.2	1434.5
12.5°	1406.7	1418.2	1407.3	1410.9	1422.4
15°	1386.7	1398.8	1389.8	1396.4	1406.1
17.5°	1362.6	1377.7	1368.0	1378.3	1388.0
20°	1337.2	1352.3	1345.1	1354.1	1365.6
22.5°	1308.2	1323.3	1317.9	1327.6	1340.2
25°	1275.6	1291.9	1287.7	1299.8	1311.9
27.5°	1241.8	1257.5	1256.3	1269.6	1282.3
30°	1203.7	1220.7	1221.3	1237.0	1249.0
32.5°	1165.7	1180.8	1184.4	1201.9	1215.8
35°	1122.8	1138.5	1145.8	1165.1	1177.2
37.5°	1079.3	1096.8	1104.7	1125.8	1138.5
40°	1031.6	1051.5	1062.4	1084.8	1098.0
42.5°	986.3	1004.4	1018.9	1041.3	1053.3
45°	938.6	956.7	971.8	996.6	1008.1
47.5°	887.3	907.2	923.5	947.7	960.3
50°	832.9	854.6	875.2	898.7	912.0
52.5°	779.1	800.3	823.8	846.8	860.1
55°	724.2	745.9	770.7	794.8	807.5
57.5°	668.6	690.4	717.5	739.3	752.6
60°	614.3	634.2	662.0	683.7	694.6
62.5°	552.6	575.6	604.0	625.7	631.8
65°	495.9	516.4	544.8	561.1	564.7
67.5°	435.5	456.0	484.4	493.5	498.9
70°	374.5	396.2	421.0	427.0	431.2
72.5°	312.9	335.2	354.5	360.6	364.2
75°	252.5	274.2	288.7	296.0	297.2
77.5°	193.9	213.8	227.1	235.6	235.6
80°	138.3	153.4	167.9	177.0	176.4
82.5°	88.2	99.7	114.8	121.4	125.6
85°	45.9	53.2	67.0	70.1	71.9
87.5°	14.5	18.7	24.2	19.9	19.3
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	17.19	18.85	17.56	19.16	19.47	17.74	19.39	18.10	19.70	20.01
	3H	18.97	20.46	19.34	20.79	21.15	19.60	21.09	19.97	21.42	21.78
	4H	19.59	21.00	19.99	21.35	21.72	20.27	21.68	20.67	22.02	22.40
	6H	20.00	21.30	20.41	21.67	22.06	20.75	22.06	21.16	22.42	22.81
	8H	20.10	21.34	20.52	21.73	22.13	20.91	22.16	21.33	22.55	22.94
	12H	20.15	21.34	20.57	21.72	22.15	21.01	22.20	21.44	22.58	23.01
4H	2H	17.93	19.34	18.33	19.69	20.06	18.36	19.76	18.75	20.11	20.49
	3H	19.93	21.11	20.34	21.50	21.90	20.43	21.62	20.84	22.01	22.41
	4H	20.68	21.74	21.11	22.16	22.59	21.24	22.30	21.67	22.72	23.15
	6H	21.19	22.13	21.65	22.57	23.02	21.85	22.79	22.30	23.23	23.68
	8H	21.33	22.21	21.79	22.65	23.11	22.05	22.93	22.51	23.37	23.83
	12H	21.41	22.19	21.89	22.67	23.14	22.19	22.98	22.67	23.45	23.92
8H	4H	21.03	21.91	21.49	22.35	22.81	21.52	22.40	21.98	22.84	23.31
	6H	21.66	22.39	22.16	22.88	23.35	22.26	22.99	22.75	23.47	23.95
	8H	21.86	22.51	22.37	23.02	23.50	22.53	23.18	23.04	23.69	24.17
	12H	21.98	22.56	22.49	23.05	23.61	22.74	23.31	23.24	23.80	24.36
12H	4H	21.07	21.86	21.55	22.33	22.80	21.55	22.34	22.03	22.81	23.28
	6H	21.73	22.38	22.24	22.89	23.37	22.30	22.95	22.81	23.46	23.94
	8H	21.98	22.55	22.48	23.04	23.60	22.63	23.20	23.13	23.69	24.25