

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: P1585718

Luminaire Tested: 14CZSP-SB-47-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585718
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-47-L845-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 4000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

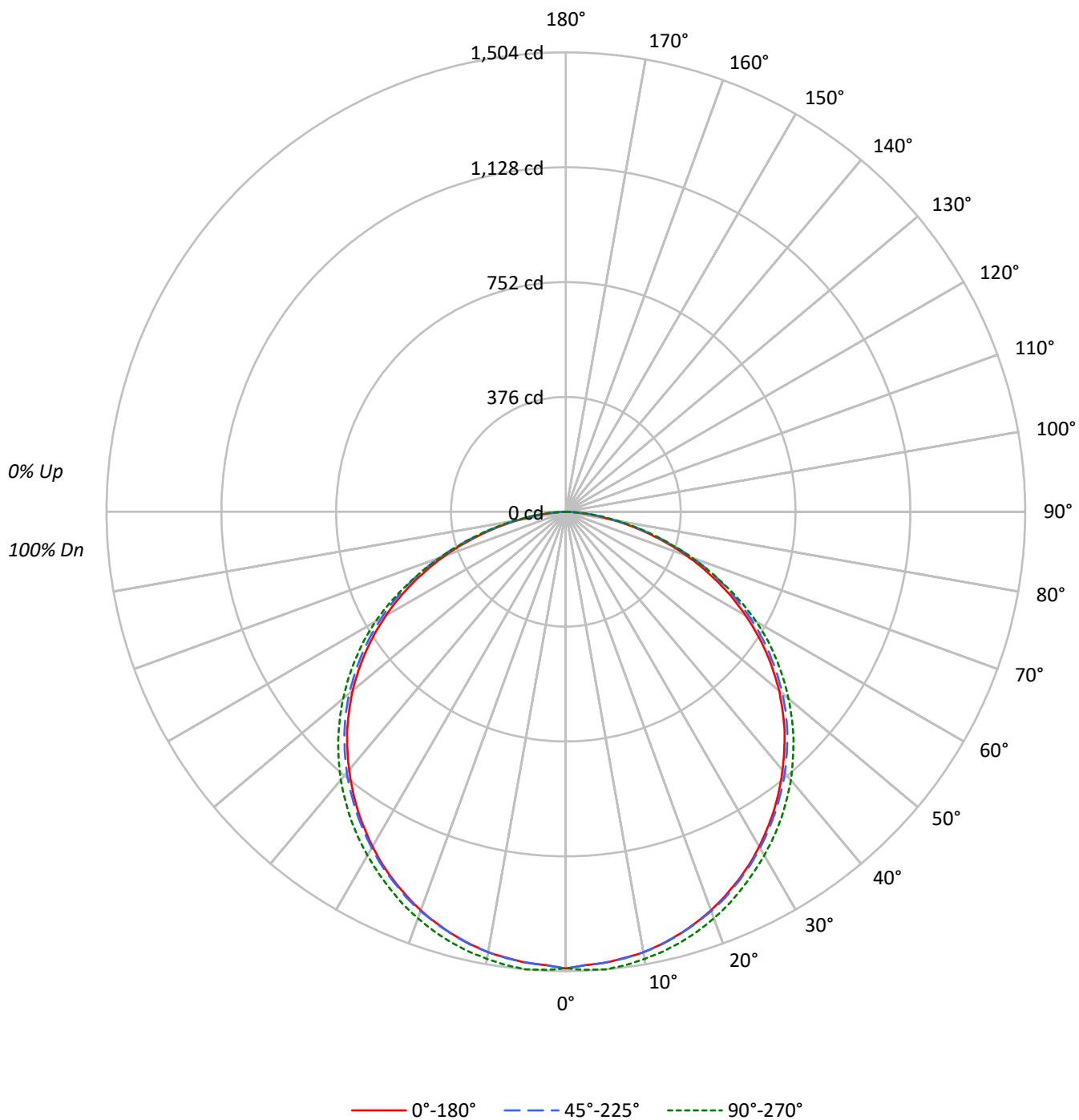
Lumens per Lamp: N/A
Luminaire Lumens: 4412.0 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 32.8
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°	5038	5038	5038
5°	5013	5011	5087
10°	5012	5009	5085
15°	4996	5001	5088
20°	4981	4990	5080
25°	4956	4968	5064
30°	4926	4947	5055
35°	4894	4924	5052
40°	4856	4906	5043
45°	4826	4887	5022
50°	4778	4852	4990
55°	4703	4790	4941
60°	4589	4708	4854
65°	4417	4584	4632
70°	4154	4347	4320
75°	3729	3887	3914
80°	3081	3239	3409
85°	2065	2405	2532

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5022 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.7	3.2
10°-20°	407.3	9.2
20°-30°	620.2	14.1
30°-40°	754.8	17.1
40°-50°	795.8	18.0
50°-60°	732.9	16.6
60°-70°	566.1	12.8
70°-80°	316.8	7.2
80°-90°	76.4	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°	1169.2	26.5
0°-40°	1924.1	43.6
0°-60°	3452.8	78.3
0°-90°	4412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4412.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1495	1495	1495	1495	1495	
5°	1482	1503	1482	1484	1504	141
15°	1432	1452	1434	1442	1459	404
25°	1333	1352	1336	1345	1362	614
35°	1190	1207	1197	1212	1228	744
45°	1013	1027	1026	1041	1054	780
55°	801	814	815	832	841	715
65°	554	570	575	580	581	547
75°	286	304	299	298	301	304
85°	53	59	62	70	66	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1495.1	1495.1	1495.1	1495.1	1495.1
2.5°	1485.6	1507.2	1485.6	1489.0	1501.1
5°	1482.2	1503.2	1481.6	1483.6	1503.8
7.5°	1473.4	1495.1	1474.8	1477.5	1497.1
10°	1464.7	1484.3	1464.0	1467.4	1486.3
12.5°	1449.8	1470.1	1451.2	1455.2	1474.1
15°	1432.2	1451.8	1433.6	1441.7	1458.6
17.5°	1412.0	1430.9	1413.3	1422.8	1439.0
20°	1389.0	1407.2	1391.7	1398.5	1416.7
22.5°	1362.0	1380.9	1366.0	1372.1	1391.7
25°	1332.9	1351.8	1336.3	1345.1	1362.0
27.5°	1301.2	1319.4	1305.9	1316.7	1331.6
30°	1266.0	1283.6	1271.4	1284.3	1299.1
32.5°	1228.2	1247.1	1235.0	1249.8	1264.7
35°	1189.7	1207.3	1197.1	1212.0	1228.2
37.5°	1147.8	1164.7	1157.3	1172.8	1187.7
40°	1103.9	1122.8	1115.4	1131.6	1146.5
42.5°	1058.6	1076.9	1070.8	1087.7	1100.5
45°	1012.7	1026.9	1025.5	1041.1	1053.9
47.5°	962.0	979.6	976.9	992.4	1003.9
50°	911.4	925.5	925.5	940.4	951.9
52.5°	856.6	870.8	870.8	888.4	897.8
55°	800.6	814.1	815.4	832.3	841.1
57.5°	741.1	755.3	758.0	774.9	783.0
60°	681.0	694.5	698.6	715.4	720.2
62.5°	618.2	634.4	636.4	649.9	652.6
65°	554.0	570.2	574.9	580.3	581.0
67.5°	488.4	505.3	510.1	510.1	510.1
70°	421.6	437.1	441.2	438.5	438.5
72.5°	354.0	370.9	368.9	366.2	367.5
75°	286.4	304.0	298.6	297.9	300.6
77.5°	221.6	238.5	229.7	235.1	235.8
80°	158.8	171.6	166.9	175.0	175.7
82.5°	102.0	110.1	111.5	118.2	116.2
85°	53.4	58.8	62.2	69.6	65.5
87.5°	16.9	22.3	20.3	23.6	18.2
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	17.65	19.31	18.02	19.62	19.94	17.87	19.52	18.23	19.84	20.15
	3H	19.47	20.97	19.85	21.30	21.66	19.67	21.17	20.05	21.49	21.85
	4H	20.12	21.53	20.52	21.88	22.25	20.31	21.72	20.71	22.07	22.44
	6H	20.55	21.86	20.96	22.22	22.61	20.76	22.07	21.17	22.43	22.82
	8H	20.66	21.91	21.08	22.30	22.70	20.89	22.14	21.32	22.53	22.93
	12H	20.71	21.91	21.14	22.29	22.72	20.97	22.17	21.40	22.55	22.98
4H	2H	18.33	19.74	18.73	20.09	20.47	18.50	19.91	18.90	20.26	20.64
	3H	20.37	21.56	20.78	21.95	22.35	20.52	21.70	20.92	22.10	22.50
	4H	21.15	22.23	21.58	22.64	23.07	21.27	22.35	21.70	22.76	23.19
	6H	21.70	22.64	22.16	23.08	23.53	21.85	22.79	22.30	23.23	23.68
	8H	21.85	22.73	22.31	23.17	23.63	22.02	22.90	22.48	23.34	23.81
	12H	21.93	22.72	22.41	23.20	23.66	22.14	22.93	22.62	23.40	23.87
8H	4H	21.46	22.34	21.92	22.78	23.24	21.57	22.45	22.03	22.89	23.35
	6H	22.12	22.85	22.61	23.34	23.81	22.25	22.98	22.74	23.47	23.94
	8H	22.32	22.98	22.83	23.48	23.97	22.49	23.14	23.00	23.65	24.13
	12H	22.46	23.04	22.97	23.53	24.09	22.67	23.24	23.17	23.73	24.29
12H	4H	21.49	22.28	21.97	22.75	23.22	21.60	22.39	22.08	22.86	23.33
	6H	22.16	22.82	22.67	23.33	23.81	22.29	22.95	22.80	23.45	23.94
	8H	22.42	23.00	22.93	23.49	24.05	22.58	23.16	23.09	23.65	24.21