

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: P1585720

Luminaire Tested: 14CZSP-SB-47-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585720
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-L850-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

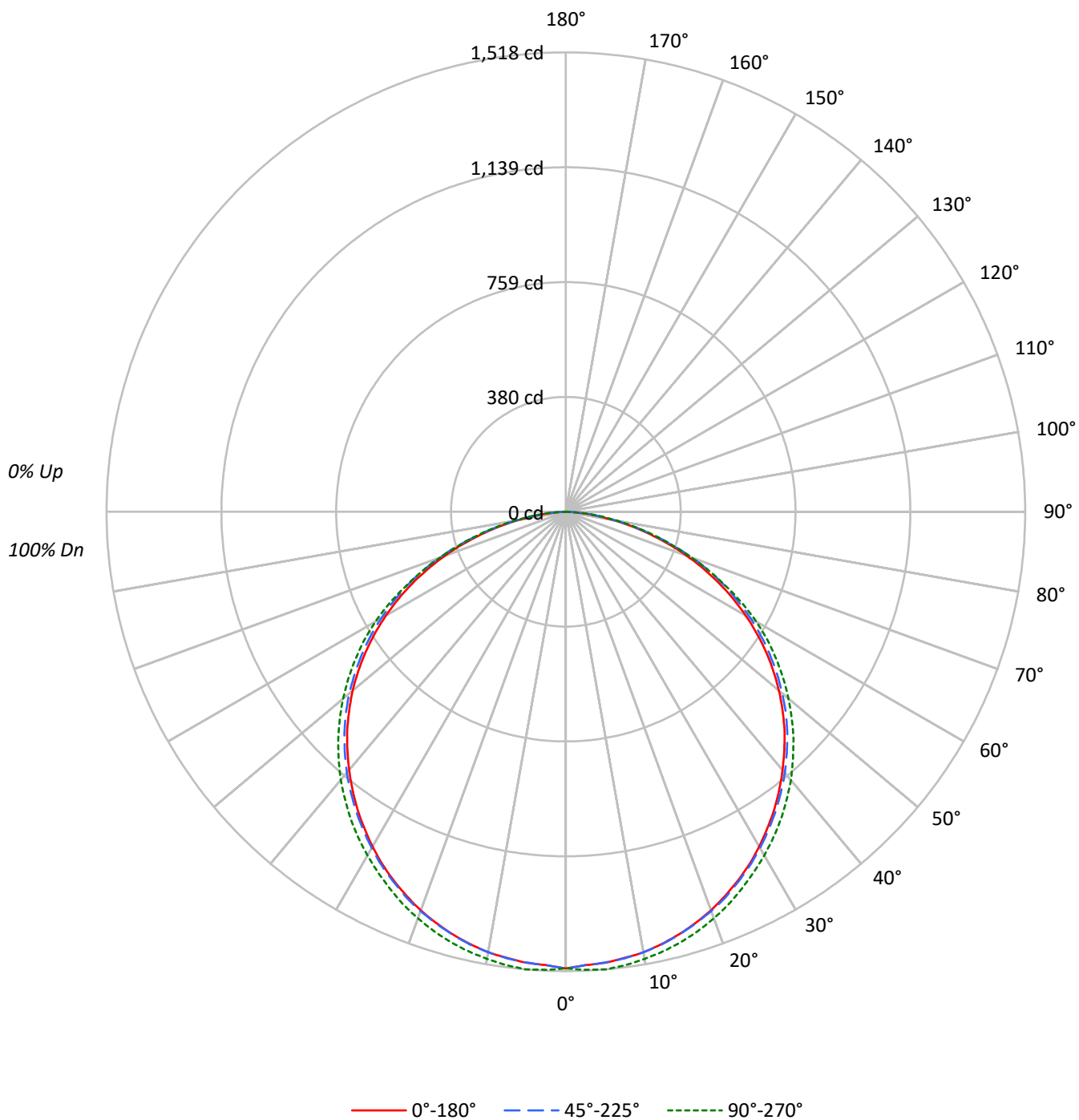
Lumens per Lamp: N/A
Luminaire Lumens: 4453.0 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	5085	5085	5085
5°	5060	5058	5134
10°	5058	5056	5133
15°	5043	5047	5135
20°	5027	5037	5127
25°	5002	5014	5111
30°	4972	4993	5102
35°	4939	4970	5099
40°	4901	4952	5090
45°	4871	4933	5069
50°	4822	4897	5036
55°	4747	4835	4987
60°	4632	4751	4899
65°	4458	4627	4675
70°	4192	4387	4360
75°	3764	3924	3950
80°	3109	3268	3440
85°	2084	2424	2556

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5069 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	3.2
10°-20°	411.1	9.2
20°-30°	626.0	14.1
30°-40°	761.9	17.1
40°-50°	803.2	18.0
50°-60°	739.7	16.6
60°-70°	571.3	12.8
70°-80°	319.7	7.2
80°-90°	77.0	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°	1180.1	26.5
0°-40°	1942.0	43.6
0°-60°	3484.9	78.3
0°-90°	4453.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4453.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1509	1509	1509	1509	1509	
5°	1496	1517	1495	1497	1518	142
15°	1446	1465	1447	1455	1472	408
25°	1345	1364	1349	1358	1375	620
35°	1201	1218	1208	1223	1240	751
45°	1022	1036	1035	1051	1064	788
55°	808	822	823	840	849	721
65°	559	576	580	586	586	552
75°	289	307	301	301	303	307
85°	54	59	63	70	66	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1509.0	1509.0	1509.0	1509.0	1509.0
2.5°	1499.4	1521.2	1499.4	1502.8	1515.1
5°	1496.0	1517.1	1495.3	1497.4	1517.8
7.5°	1487.1	1509.0	1488.5	1491.2	1511.0
10°	1478.3	1498.0	1477.6	1481.0	1500.1
12.5°	1463.3	1483.7	1464.6	1468.7	1487.8
15°	1445.5	1465.3	1446.9	1455.1	1472.1
17.5°	1425.1	1444.2	1426.5	1436.0	1452.4
20°	1401.9	1420.3	1404.6	1411.5	1429.9
22.5°	1374.6	1393.7	1378.7	1384.9	1404.6
25°	1345.3	1364.4	1348.7	1357.6	1374.6
27.5°	1313.3	1331.7	1318.0	1328.9	1343.9
30°	1277.8	1295.5	1283.3	1296.2	1311.2
32.5°	1239.6	1258.7	1246.4	1261.4	1276.4
35°	1200.8	1218.5	1208.3	1223.3	1239.6
37.5°	1158.5	1175.5	1168.0	1183.7	1198.7
40°	1114.2	1133.3	1125.8	1142.1	1157.1
42.5°	1068.5	1086.9	1080.7	1097.8	1110.8
45°	1022.1	1036.4	1035.1	1050.7	1063.7
47.5°	971.0	988.7	986.0	1001.7	1013.2
50°	919.8	934.1	934.1	949.2	960.7
52.5°	864.6	878.9	878.9	896.6	906.2
55°	808.0	821.6	823.0	840.1	848.9
57.5°	748.0	762.3	765.0	782.1	790.3
60°	687.3	701.0	705.0	722.1	726.9
62.5°	623.9	640.3	642.3	656.0	658.7
65°	559.1	575.5	580.3	585.7	586.4
67.5°	493.0	510.0	514.8	514.8	514.8
70°	425.5	441.2	445.3	442.5	442.5
72.5°	357.3	374.3	372.3	369.6	370.9
75°	289.1	306.8	301.4	300.7	303.4
77.5°	223.7	240.7	231.8	237.3	238.0
80°	160.2	173.2	168.4	176.6	177.3
82.5°	103.0	111.1	112.5	119.3	117.3
85°	53.9	59.3	62.7	70.2	66.1
87.5°	17.0	22.5	20.5	23.9	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	17.68	19.34	18.05	19.65	19.97	17.90	19.56	18.27	19.87	20.19
	3H	19.51	21.00	19.88	21.33	21.69	19.70	21.20	20.08	21.53	21.89
	4H	20.15	21.56	20.55	21.91	22.29	20.34	21.75	20.74	22.10	22.47
	6H	20.58	21.89	20.99	22.25	22.64	20.79	22.10	21.20	22.47	22.86
	8H	20.69	21.94	21.11	22.33	22.73	20.92	22.18	21.35	22.56	22.96
	12H	20.74	21.94	21.17	22.32	22.75	21.00	22.20	21.43	22.58	23.01
4H	2H	18.36	19.78	18.76	20.12	20.50	18.53	19.95	18.93	20.29	20.67
	3H	20.41	21.59	20.81	21.99	22.39	20.55	21.73	20.96	22.13	22.53
	4H	21.18	22.26	21.62	22.67	23.11	21.31	22.38	21.74	22.79	23.23
	6H	21.73	22.67	22.19	23.11	23.57	21.88	22.82	22.33	23.26	23.71
	8H	21.88	22.76	22.34	23.20	23.66	22.05	22.93	22.51	23.37	23.84
	12H	21.96	22.75	22.44	23.23	23.70	22.17	22.96	22.65	23.43	23.90
8H	4H	21.49	22.37	21.95	22.81	23.28	21.60	22.48	22.06	22.92	23.38
	6H	22.15	22.88	22.64	23.37	23.84	22.28	23.01	22.77	23.50	23.97
	8H	22.36	23.01	22.87	23.52	24.00	22.52	23.17	23.03	23.68	24.17
	12H	22.49	23.07	23.00	23.56	24.12	22.70	23.28	23.20	23.77	24.32
12H	4H	21.52	22.31	22.00	22.79	23.26	21.63	22.42	22.11	22.89	23.36
	6H	22.20	22.85	22.70	23.36	23.84	22.32	22.98	22.83	23.48	23.97
	8H	22.45	23.03	22.96	23.52	24.08	22.61	23.19	23.12	23.68	24.24