

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: P1585770

Luminaire Tested: 14CZSP-SB-52-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585770
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-52-L950-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 4500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

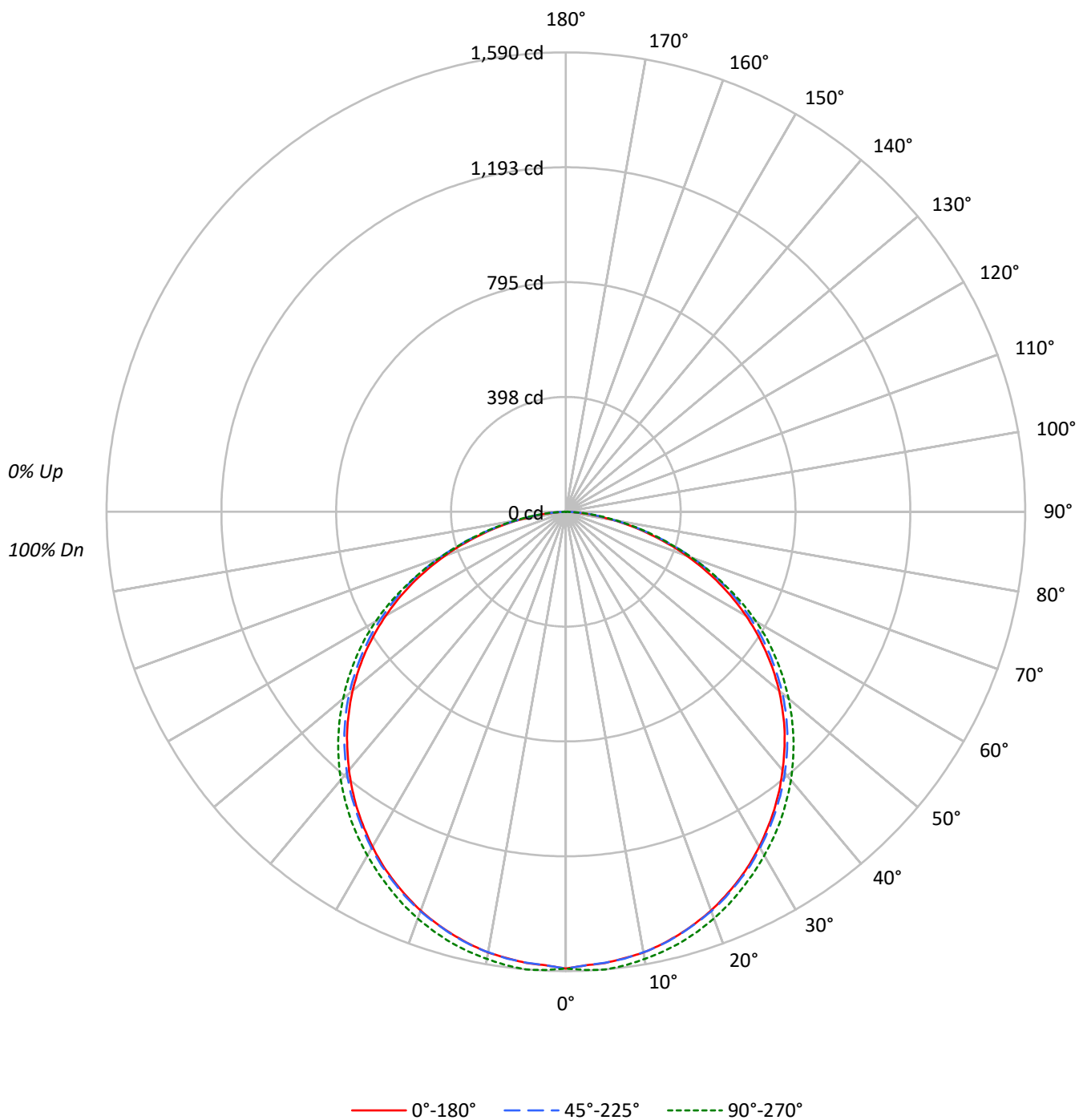
Lumens per Lamp: N/A
Luminaire Lumens: 4666.0 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 36.9
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°	5328	5328	5328
5°	5302	5300	5379
10°	5300	5298	5378
15°	5284	5289	5381
20°	5268	5278	5373
25°	5241	5254	5355
30°	5209	5232	5346
35°	5176	5208	5343
40°	5135	5189	5333
45°	5104	5168	5311
50°	5052	5131	5277
55°	4974	5066	5226
60°	4854	4979	5133
65°	4671	4848	4899
70°	4392	4597	4568
75°	3943	4111	4139
80°	3258	3425	3605
85°	2181	2540	2679

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5311 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.9	3.2
10°-20°	430.8	9.2
20°-30°	656.0	14.1
30°-40°	798.3	17.1
40°-50°	841.6	18.0
50°-60°	775.1	16.6
60°-70°	598.7	12.8
70°-80°	335.0	7.2
80°-90°	80.7	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°	1236.6	26.5
0°-40°	2034.9	43.6
0°-60°	3651.6	78.3
0°-90°	4666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1581	1581	1581	1581	1581	
5°	1568	1590	1567	1569	1590	149
15°	1515	1535	1516	1525	1543	428
25°	1410	1430	1413	1422	1440	650
35°	1258	1277	1266	1282	1299	787
45°	1071	1086	1085	1101	1115	825
55°	847	861	862	880	890	756
65°	586	603	608	614	614	579
75°	303	322	316	315	318	321
85°	56	62	66	74	69	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1581.1	1581.1	1581.1	1581.1	1581.1
2.5°	1571.1	1594.0	1571.1	1574.7	1587.6
5°	1567.6	1589.7	1566.8	1569.0	1590.4
7.5°	1558.3	1581.1	1559.7	1562.6	1583.3
10°	1549.0	1569.7	1548.3	1551.8	1571.8
12.5°	1533.3	1554.7	1534.7	1539.0	1559.0
15°	1514.7	1535.4	1516.1	1524.7	1542.6
17.5°	1493.3	1513.3	1494.7	1504.7	1521.8
20°	1469.0	1488.3	1471.8	1479.0	1498.3
22.5°	1440.4	1460.4	1444.7	1451.1	1471.8
25°	1409.7	1429.7	1413.2	1422.5	1440.4
27.5°	1376.1	1395.4	1381.1	1392.5	1408.2
30°	1338.9	1357.5	1344.6	1358.2	1373.9
32.5°	1298.9	1318.9	1306.1	1321.8	1337.5
35°	1258.2	1276.8	1266.1	1281.8	1298.9
37.5°	1213.9	1231.8	1223.9	1240.3	1256.0
40°	1167.5	1187.5	1179.6	1196.7	1212.5
42.5°	1119.6	1138.9	1132.4	1150.3	1163.9
45°	1071.0	1086.0	1084.6	1101.0	1114.6
47.5°	1017.4	1036.0	1033.1	1049.6	1061.7
50°	963.8	978.8	978.8	994.6	1006.7
52.5°	906.0	921.0	921.0	939.5	949.5
55°	846.7	860.9	862.4	880.2	889.5
57.5°	783.8	798.8	801.6	819.5	828.1
60°	720.2	734.5	738.8	756.6	761.6
62.5°	653.7	670.9	673.0	687.3	690.2
65°	585.9	603.0	608.0	613.7	614.4
67.5°	516.6	534.4	539.4	539.4	539.4
70°	445.8	462.3	466.6	463.7	463.7
72.5°	374.4	392.2	390.1	387.2	388.7
75°	302.9	321.5	315.8	315.1	317.9
77.5°	234.3	252.2	242.9	248.6	249.4
80°	167.9	181.5	176.5	185.0	185.8
82.5°	107.9	116.5	117.9	125.0	122.9
85°	56.4	62.2	65.7	73.6	69.3
87.5°	17.9	23.6	21.4	25.0	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	17.85	19.50	18.21	19.82	20.13	18.06	19.72	18.43	20.03	20.35
	3H	19.67	21.17	20.04	21.49	21.85	19.86	21.36	20.24	21.69	22.05
	4H	20.31	21.73	20.71	22.07	22.45	20.50	21.91	20.90	22.26	22.64
	6H	20.74	22.05	21.15	22.42	22.81	20.95	22.26	21.37	22.63	23.02
	8H	20.85	22.10	21.28	22.49	22.89	21.09	22.34	21.51	22.73	23.12
	12H	20.91	22.10	21.33	22.49	22.91	21.16	22.36	21.59	22.74	23.17
4H	2H	18.53	19.94	18.92	20.29	20.66	18.70	20.11	19.09	20.46	20.83
	3H	20.57	21.75	20.98	22.15	22.55	20.71	21.90	21.12	22.29	22.69
	4H	21.35	22.42	21.78	22.83	23.27	21.47	22.54	21.90	22.95	23.39
	6H	21.90	22.83	22.35	23.27	23.73	22.04	22.98	22.50	23.42	23.87
	8H	22.04	22.92	22.50	23.36	23.83	22.22	23.09	22.68	23.54	24.00
	12H	22.13	22.92	22.61	23.39	23.86	22.33	23.12	22.81	23.59	24.06
8H	4H	21.65	22.53	22.11	22.97	23.44	21.76	22.64	22.22	23.08	23.55
	6H	22.31	23.04	22.81	23.53	24.00	22.44	23.17	22.94	23.66	24.13
	8H	22.52	23.17	23.03	23.68	24.16	22.68	23.34	23.19	23.84	24.33
	12H	22.65	23.23	23.16	23.72	24.28	22.86	23.44	23.37	23.93	24.49
12H	4H	21.69	22.47	22.16	22.95	23.42	21.79	22.58	22.27	23.05	23.52
	6H	22.36	23.01	22.87	23.52	24.01	22.49	23.14	22.99	23.65	24.13
	8H	22.62	23.19	23.12	23.68	24.24	22.78	23.35	23.28	23.84	24.40