

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: P1585764

Luminaire Tested: 14CZSP-SB-52-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585764
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-L935-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 4500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

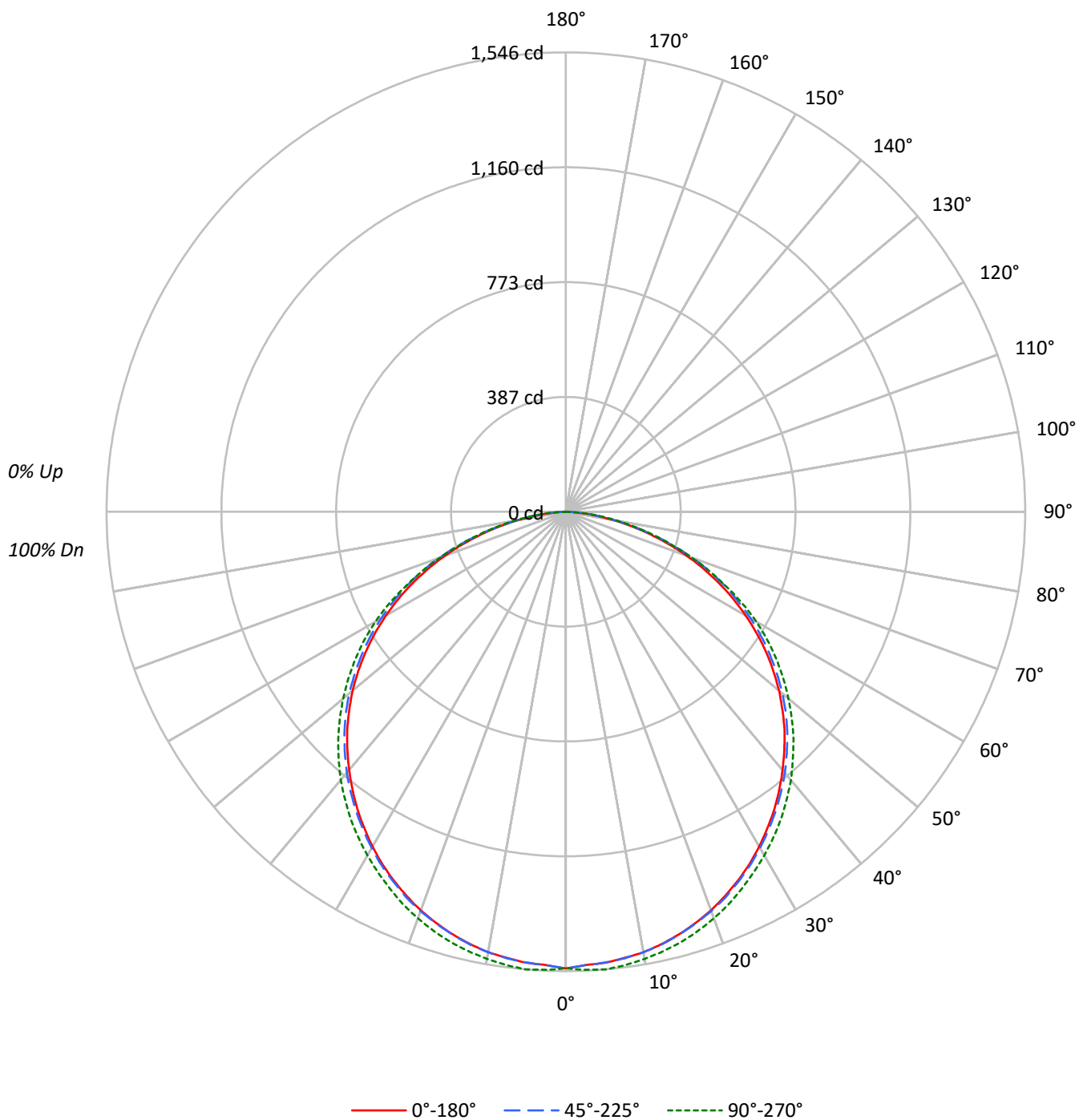
Lumens per Lamp: N/A
Luminaire Lumens: 4535.0 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	5178	5178	5178
5°	5153	5151	5229
10°	5151	5149	5227
15°	5136	5141	5230
20°	5119	5130	5222
25°	5094	5107	5205
30°	5063	5085	5196
35°	5030	5062	5193
40°	4991	5043	5183
45°	4960	5023	5162
50°	4911	4987	5129
55°	4834	4924	5079
60°	4717	4839	4988
65°	4540	4711	4762
70°	4269	4468	4440
75°	3833	3996	4023
80°	3167	3328	3503
85°	2123	2470	2606

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5162 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.6	3.2
10°-20°	418.7	9.2
20°-30°	637.5	14.1
30°-40°	775.9	17.1
40°-50°	818.0	18.0
50°-60°	753.4	16.6
60°-70°	581.9	12.8
70°-80°	325.6	7.2
80°-90°	78.5	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°	1201.8	26.5
0°-40°	1977.7	43.6
0°-60°	3549.1	78.3
0°-90°	4535.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4535.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1524	1545	1523	1525	1546	145
15°	1472	1492	1474	1482	1499	416
25°	1370	1390	1374	1383	1400	631
35°	1223	1241	1230	1246	1262	765
45°	1041	1056	1054	1070	1083	802
55°	823	837	838	856	864	734
65°	569	586	591	596	597	563
75°	294	312	307	306	309	312
85°	55	60	64	72	67	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1536.7	1536.7	1536.7	1536.7	1536.7
2.5°	1527.0	1549.2	1527.0	1530.5	1543.0
5°	1523.6	1545.1	1522.9	1524.9	1545.8
7.5°	1514.5	1536.7	1515.9	1518.7	1538.8
10°	1505.5	1525.6	1504.8	1508.3	1527.7
12.5°	1490.2	1511.1	1491.6	1495.8	1515.2
15°	1472.2	1492.3	1473.6	1481.9	1499.2
17.5°	1451.3	1470.8	1452.7	1462.4	1479.1
20°	1427.7	1446.5	1430.5	1437.4	1456.2
22.5°	1399.9	1419.4	1404.1	1410.4	1430.5
25°	1370.1	1389.5	1373.6	1382.6	1399.9
27.5°	1337.4	1356.2	1342.3	1353.4	1368.7
30°	1301.3	1319.4	1306.9	1320.1	1335.4
32.5°	1262.5	1281.9	1269.4	1284.7	1299.9
35°	1222.9	1240.9	1230.5	1245.8	1262.5
37.5°	1179.8	1197.2	1189.5	1205.5	1220.8
40°	1134.7	1154.1	1146.5	1163.1	1178.4
42.5°	1088.2	1106.9	1100.7	1118.0	1131.2
45°	1040.9	1055.5	1054.1	1070.1	1083.3
47.5°	988.8	1006.9	1004.1	1020.1	1031.9
50°	936.8	951.4	951.4	966.6	978.4
52.5°	880.5	895.1	895.1	913.2	922.9
55°	822.9	836.8	838.2	855.5	864.5
57.5°	761.8	776.4	779.1	796.5	804.8
60°	700.0	713.9	718.0	735.4	740.2
62.5°	635.4	652.1	654.1	668.0	670.8
65°	569.4	586.1	590.9	596.5	597.2
67.5°	502.1	519.4	524.3	524.3	524.3
70°	433.3	449.3	453.5	450.7	450.7
72.5°	363.9	381.2	379.2	376.4	377.8
75°	294.4	312.5	306.9	306.2	309.0
77.5°	227.8	245.1	236.1	241.7	242.4
80°	163.2	176.4	171.5	179.9	180.5
82.5°	104.9	113.2	114.6	121.5	119.4
85°	54.9	60.4	63.9	71.5	67.4
87.5°	17.4	22.9	20.8	24.3	18.7
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	17.75	19.40	18.11	19.72	20.03	17.96	19.62	18.33	19.93	20.25
	3H	19.57	21.07	19.95	21.39	21.75	19.76	21.26	20.14	21.59	21.95
	4H	20.22	21.63	20.61	21.98	22.35	20.40	21.82	20.80	22.16	22.54
	6H	20.64	21.95	21.05	22.32	22.71	20.86	22.17	21.27	22.53	22.92
	8H	20.75	22.00	21.18	22.39	22.79	20.99	22.24	21.41	22.63	23.03
	12H	20.81	22.01	21.24	22.39	22.82	21.06	22.26	21.49	22.64	23.07
4H	2H	18.43	19.84	18.83	20.19	20.56	18.60	20.01	18.99	20.36	20.73
	3H	20.47	21.65	20.88	22.05	22.45	20.61	21.80	21.02	22.19	22.59
	4H	21.25	22.32	21.68	22.73	23.17	21.37	22.44	21.80	22.85	23.29
	6H	21.80	22.74	22.25	23.18	23.63	21.94	22.88	22.40	23.32	23.78
	8H	21.94	22.82	22.40	23.26	23.73	22.12	23.00	22.58	23.44	23.90
	12H	22.03	22.82	22.51	23.29	23.76	22.23	23.02	22.71	23.50	23.96
8H	4H	21.56	22.43	22.02	22.87	23.34	21.66	22.54	22.12	22.98	23.45
	6H	22.21	22.94	22.71	23.43	23.91	22.35	23.07	22.84	23.56	24.04
	8H	22.42	23.07	22.93	23.58	24.06	22.58	23.24	23.09	23.74	24.23
	12H	22.56	23.13	23.06	23.62	24.18	22.76	23.34	23.27	23.83	24.39
12H	4H	21.59	22.38	22.07	22.85	23.32	21.69	22.48	22.17	22.96	23.42
	6H	22.26	22.92	22.77	23.42	23.91	22.39	23.04	22.89	23.55	24.03
	8H	22.52	23.09	23.02	23.58	24.14	22.68	23.25	23.18	23.74	24.30