

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: P1585768

Luminaire Tested: 14CZSP-SB-52-L945-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585768
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-L945-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 4500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

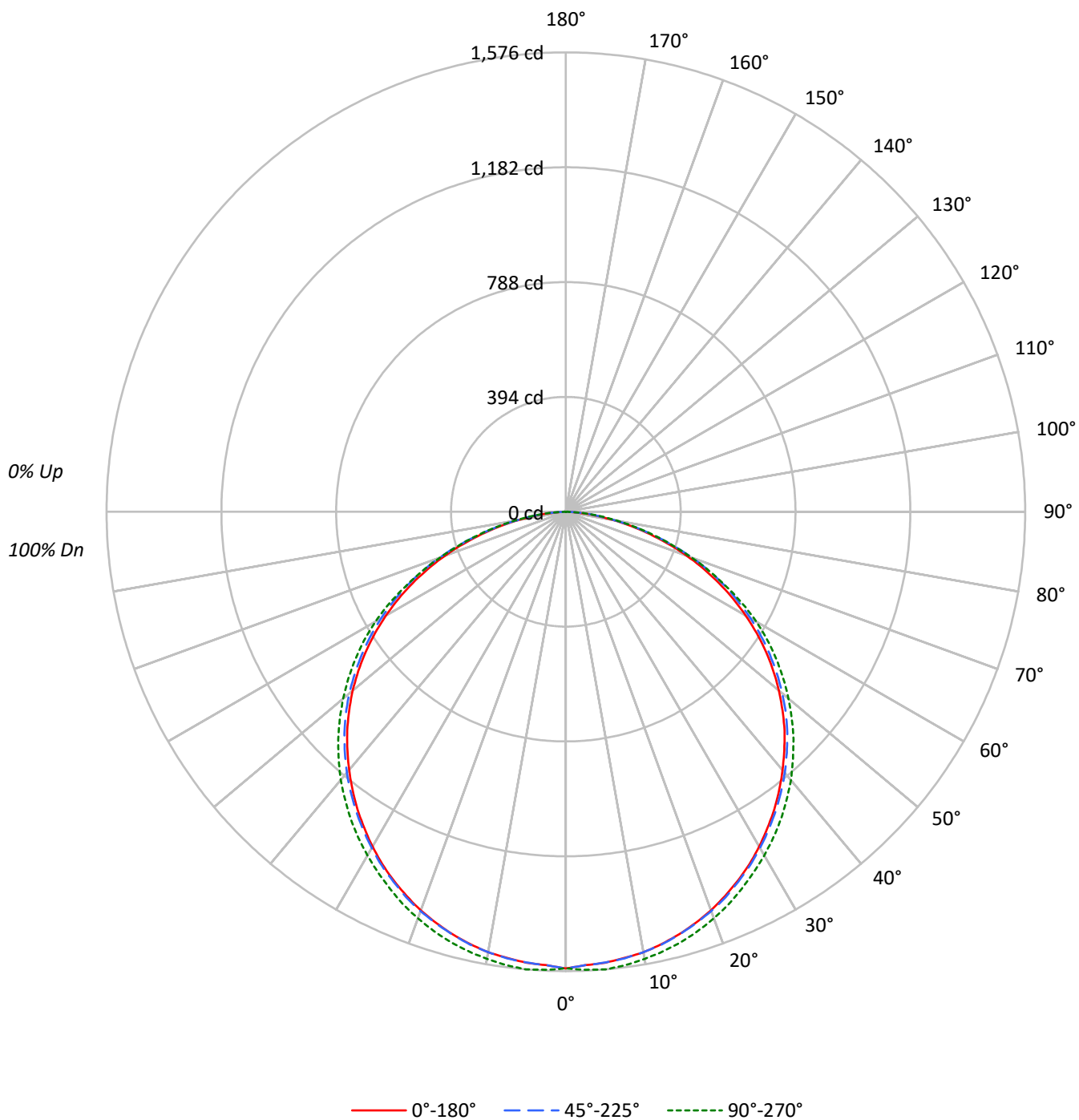
Lumens per Lamp: N/A
Luminaire Lumens: 4623.0 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1585768

CATALOG NUMBER: 14CZSP-SB-52-L945-S

Luminous Intensity Polar Plot



TEST NUMBER: P1585768

CATALOG NUMBER: 14CZSP-SB-52-L945-S

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°	5279	5279	5279
5°	5253	5251	5330
10°	5251	5249	5329
15°	5235	5240	5331
20°	5219	5229	5323
25°	5193	5206	5306
30°	5162	5184	5297
35°	5128	5160	5294
40°	5088	5141	5284
45°	5056	5121	5262
50°	5006	5084	5229
55°	4928	5019	5177
60°	4809	4933	5085
65°	4628	4803	4854
70°	4352	4555	4526
75°	3907	4074	4101
80°	3229	3392	3572
85°	2161	2517	2656

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5262 cd/sqm

TEST NUMBER: P1585768

CATALOG NUMBER: 14CZSP-SB-52-L945-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.5	3.2
10°-20°	426.8	9.2
20°-30°	649.9	14.1
30°-40°	790.9	17.1
40°-50°	833.8	18.0
50°-60°	768.0	16.6
60°-70°	593.2	12.8
70°-80°	331.9	7.2
80°-90°	80.0	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°	1225.2	26.5
0°-40°	2016.1	43.6
0°-60°	3617.9	78.3
0°-90°	4623.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4623.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1567	1567	1567	1567	1567	
5°	1553	1575	1552	1554	1576	148
15°	1501	1521	1502	1511	1528	424
25°	1397	1416	1400	1409	1427	644
35°	1247	1265	1254	1270	1287	780
45°	1061	1076	1075	1091	1104	818
55°	839	853	854	872	881	749
65°	580	598	602	608	609	573
75°	300	319	313	312	315	318
85°	56	62	65	73	69	72
90°	0	0	0	0	0	

TEST NUMBER: P1585768

CATALOG NUMBER: 14CZSP-SB-52-L945-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1566.6	1566.6	1566.6	1566.6	1566.6
2.5°	1556.7	1579.3	1556.7	1560.2	1572.9
5°	1553.1	1575.1	1552.4	1554.5	1575.8
7.5°	1543.9	1566.6	1545.3	1548.2	1568.7
10°	1534.7	1555.2	1534.0	1537.5	1557.4
12.5°	1519.1	1540.4	1520.6	1524.8	1544.6
15°	1500.7	1521.3	1502.1	1510.6	1528.3
17.5°	1479.5	1499.3	1480.9	1490.8	1507.8
20°	1455.4	1474.5	1458.3	1465.3	1484.4
22.5°	1427.1	1446.9	1431.4	1437.7	1458.3
25°	1396.7	1416.5	1400.2	1409.4	1427.1
27.5°	1363.4	1382.5	1368.4	1379.7	1395.3
30°	1326.6	1345.0	1332.3	1345.7	1361.3
32.5°	1286.9	1306.8	1294.0	1309.6	1325.2
35°	1246.6	1265.0	1254.4	1270.0	1286.9
37.5°	1202.7	1220.4	1212.6	1228.9	1244.5
40°	1156.7	1176.5	1168.7	1185.7	1201.3
42.5°	1109.3	1128.4	1122.0	1139.7	1153.2
45°	1061.1	1076.0	1074.6	1090.9	1104.3
47.5°	1008.0	1026.4	1023.6	1039.9	1051.9
50°	954.9	969.8	969.8	985.4	997.4
52.5°	897.6	912.5	912.5	930.9	940.8
55°	838.9	853.0	854.4	872.1	881.3
57.5°	776.6	791.4	794.3	812.0	820.4
60°	713.6	727.7	732.0	749.7	754.6
62.5°	647.7	664.7	666.8	681.0	683.8
65°	580.5	597.5	602.4	608.1	608.8
67.5°	511.8	529.5	534.5	534.5	534.5
70°	441.7	458.0	462.3	459.4	459.4
72.5°	370.9	388.6	386.5	383.7	385.1
75°	300.1	318.6	312.9	312.2	315.0
77.5°	232.2	249.9	240.7	246.3	247.1
80°	166.4	179.8	174.8	183.3	184.1
82.5°	106.9	115.4	116.8	123.9	121.8
85°	55.9	61.6	65.1	72.9	68.7
87.5°	17.7	23.4	21.2	24.8	19.1
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1585768

CATALOG NUMBER: 14CZSP-SB-52-L945-S

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	17.81	19.47	18.18	19.78	20.10	18.03	19.69	18.40	20.00	20.32
	3H	19.64	21.13	20.01	21.46	21.82	19.83	21.33	20.21	21.66	22.02
	4H	20.28	21.69	20.68	22.04	22.42	20.47	21.88	20.87	22.23	22.60
	6H	20.71	22.02	21.12	22.38	22.77	20.92	22.23	21.33	22.60	22.99
	8H	20.82	22.07	21.24	22.46	22.86	21.05	22.31	21.48	22.69	23.09
	12H	20.87	22.07	21.30	22.45	22.88	21.13	22.33	21.56	22.71	23.14
4H	2H	18.49	19.91	18.89	20.25	20.63	18.66	20.08	19.06	20.42	20.80
	3H	20.53	21.72	20.94	22.12	22.52	20.68	21.86	21.09	22.26	22.66
	4H	21.32	22.39	21.75	22.80	23.24	21.44	22.51	21.87	22.92	23.36
	6H	21.86	22.80	22.32	23.24	23.70	22.01	22.95	22.46	23.39	23.84
	8H	22.01	22.89	22.47	23.33	23.79	22.18	23.06	22.64	23.50	23.97
	12H	22.09	22.88	22.57	23.36	23.83	22.30	23.09	22.78	23.56	24.03
8H	4H	21.62	22.50	22.08	22.94	23.41	21.73	22.61	22.19	23.05	23.51
	6H	22.28	23.01	22.77	23.50	23.97	22.41	23.14	22.90	23.63	24.10
	8H	22.49	23.14	23.00	23.65	24.13	22.65	23.30	23.16	23.81	24.30
	12H	22.62	23.20	23.13	23.69	24.25	22.83	23.41	23.33	23.90	24.46
12H	4H	21.65	22.44	22.13	22.92	23.39	21.76	22.55	22.24	23.02	23.49
	6H	22.33	22.98	22.84	23.49	23.97	22.45	23.11	22.96	23.61	24.10
	8H	22.58	23.16	23.09	23.65	24.21	22.74	23.32	23.25	23.81	24.37