

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: P1585769

Luminaire Tested: 14CZSP-SB-52-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585769
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-52-L945
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 4500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

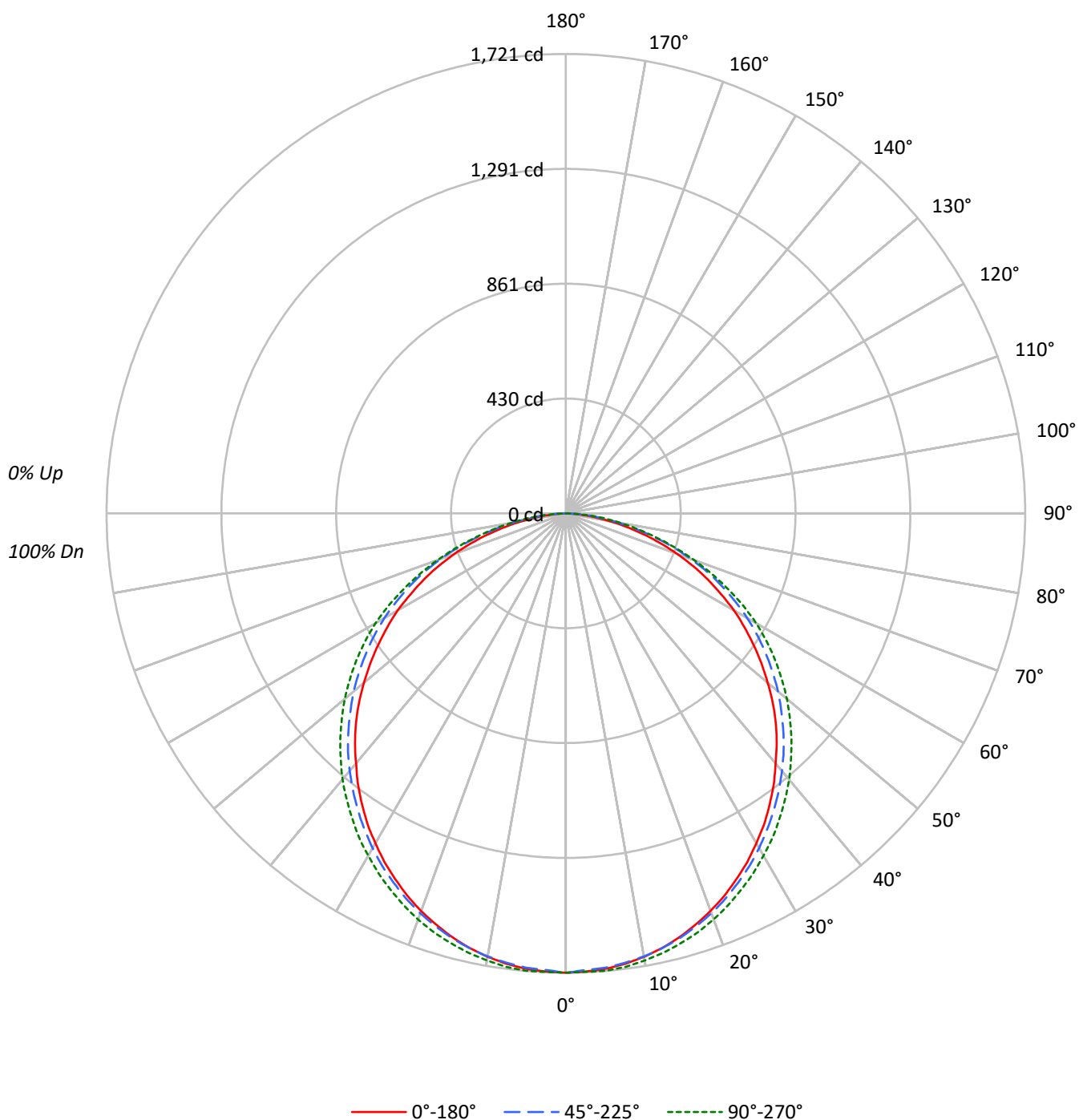
Lumens per Lamp: N/A
Luminaire Lumens: 4971.0 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1585769

CATALOG NUMBER: 14CZSP-SB-52-L945

Luminous Intensity Polar Plot



TEST NUMBER: P1585769

CATALOG NUMBER: 14CZSP-SB-52-L945

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5798	5798	5798
5°	5793	5779	5818
10°	5772	5767	5819
15°	5735	5748	5815
20°	5685	5718	5805
25°	5623	5676	5782
30°	5553	5634	5762
35°	5475	5588	5741
40°	5380	5540	5726
45°	5302	5490	5695
50°	5176	5439	5668
55°	5043	5368	5624
60°	4907	5289	5550
65°	4687	5150	5338
70°	4374	4917	5037
75°	3897	4456	4587
80°	3182	3863	4058
85°	2103	3074	3294

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5695 cd/sqm

TEST NUMBER: P1585769

CATALOG NUMBER: 14CZSP-SB-52-L945

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.0	3.3
10°-20°	466.8	9.4
20°-30°	706.8	14.2
30°-40°	853.1	17.2
40°-50°	890.9	17.9
50°-60°	815.0	16.4
60°-70°	630.1	12.7
70°-80°	356.7	7.2
80°-90°	88.6	1.8
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°	1336.6	26.9
0°-40°	2189.7	44.0
0°-60°	3895.6	78.4
0°-90°	4971.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4971.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1721	1721	1721	1721	1721	
5°	1713	1725	1708	1710	1720	163
15°	1644	1658	1648	1656	1667	464
25°	1512	1532	1527	1541	1555	697
35°	1331	1350	1358	1381	1396	833
45°	1113	1134	1152	1182	1195	857
55°	858	884	914	942	957	768
65°	588	612	646	665	670	580
75°	299	325	342	351	352	317
85°	54	63	80	83	85	70
90°	0	0	0	0	0	

TEST NUMBER: P1585769

CATALOG NUMBER: 14CZSP-SB-52-L945

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1720.7	1720.7	1720.7	1720.7	1720.7
2.5°	1718.5	1730.7	1712.1	1715.7	1719.2
5°	1712.8	1725.0	1708.5	1709.9	1720.0
7.5°	1702.1	1715.7	1698.5	1701.3	1713.5
10°	1687.0	1700.6	1685.6	1688.5	1700.6
12.5°	1667.7	1681.3	1668.4	1672.7	1686.3
15°	1644.1	1658.4	1647.6	1655.5	1667.0
17.5°	1615.4	1633.3	1621.9	1634.0	1645.5
20°	1585.3	1603.2	1594.6	1605.4	1619.0
22.5°	1551.0	1568.9	1562.4	1573.9	1588.9
25°	1512.3	1531.6	1526.6	1540.9	1555.3
27.5°	1472.2	1490.8	1489.4	1505.1	1520.2
30°	1427.1	1447.1	1447.9	1466.5	1480.8
32.5°	1382.0	1399.9	1404.2	1424.9	1441.4
35°	1331.1	1349.8	1358.4	1381.3	1395.6
37.5°	1279.6	1300.4	1309.7	1334.7	1349.8
40°	1223.0	1246.6	1259.5	1286.0	1301.8
42.5°	1169.3	1190.8	1208.0	1234.5	1248.8
45°	1112.7	1134.2	1152.1	1181.5	1195.1
47.5°	1051.9	1075.5	1094.8	1123.5	1138.5
50°	987.4	1013.2	1037.6	1065.5	1081.2
52.5°	923.7	948.8	976.7	1003.9	1019.7
55°	858.5	884.3	913.7	942.3	957.4
57.5°	792.7	818.4	850.7	876.4	892.2
60°	728.2	751.9	784.8	810.6	823.5
62.5°	655.2	682.4	716.1	741.8	749.0
65°	587.9	612.2	645.9	665.2	669.5
67.5°	516.3	540.6	574.3	585.0	591.5
70°	444.0	469.7	499.1	506.2	511.3
72.5°	370.9	397.4	420.3	427.5	431.8
75°	299.3	325.1	342.3	350.9	352.3
77.5°	229.9	253.5	269.2	279.3	279.3
80°	164.0	181.9	199.1	209.8	209.1
82.5°	104.5	118.1	136.0	143.9	148.9
85°	54.4	63.0	79.5	83.1	85.2
87.5°	17.2	22.2	28.6	23.6	22.9
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1585769
CATALOG NUMBER: 14CZSP-SB-52-L945

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	17.79	19.44	18.15	19.75	20.06	18.33	19.98	18.69	20.29	20.61
	3H	19.56	21.05	19.94	21.38	21.74	20.19	21.68	20.56	22.01	22.37
	4H	20.18	21.59	20.58	21.94	22.31	20.86	22.27	21.26	22.61	22.99
	6H	20.59	21.89	21.00	22.26	22.65	21.34	22.65	21.76	23.01	23.40
	8H	20.69	21.94	21.11	22.32	22.72	21.50	22.75	21.93	23.14	23.54
	12H	20.74	21.93	21.17	22.31	22.74	21.60	22.79	22.03	23.18	23.60
4H	2H	18.53	19.93	18.92	20.28	20.66	18.95	20.35	19.34	20.70	21.08
	3H	20.52	21.70	20.93	22.10	22.50	21.03	22.21	21.43	22.60	23.00
	4H	21.27	22.34	21.70	22.75	23.18	21.83	22.90	22.26	23.31	23.74
	6H	21.79	22.72	22.24	23.16	23.62	22.44	23.38	22.89	23.82	24.27
	8H	21.92	22.80	22.38	23.24	23.70	22.64	23.52	23.10	23.96	24.43
	12H	22.00	22.78	22.48	23.26	23.73	22.78	23.57	23.26	24.05	24.51
8H	4H	21.62	22.50	22.08	22.94	23.40	22.12	22.99	22.58	23.43	23.90
	6H	22.25	22.98	22.75	23.47	23.94	22.85	23.58	23.34	24.06	24.54
	8H	22.45	23.10	22.96	23.61	24.09	23.12	23.77	23.63	24.28	24.76
	12H	22.57	23.15	23.08	23.64	24.20	23.33	23.90	23.83	24.39	24.95
12H	4H	21.66	22.45	22.14	22.92	23.39	22.14	22.93	22.62	23.40	23.87
	6H	22.32	22.97	22.83	23.48	23.96	22.89	23.54	23.40	24.05	24.53
	8H	22.57	23.14	23.07	23.63	24.19	23.22	23.79	23.72	24.28	24.84