

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: P1585729

Luminaire Tested: 14CZSP-SB-47-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585729
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-47-L945
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 4000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

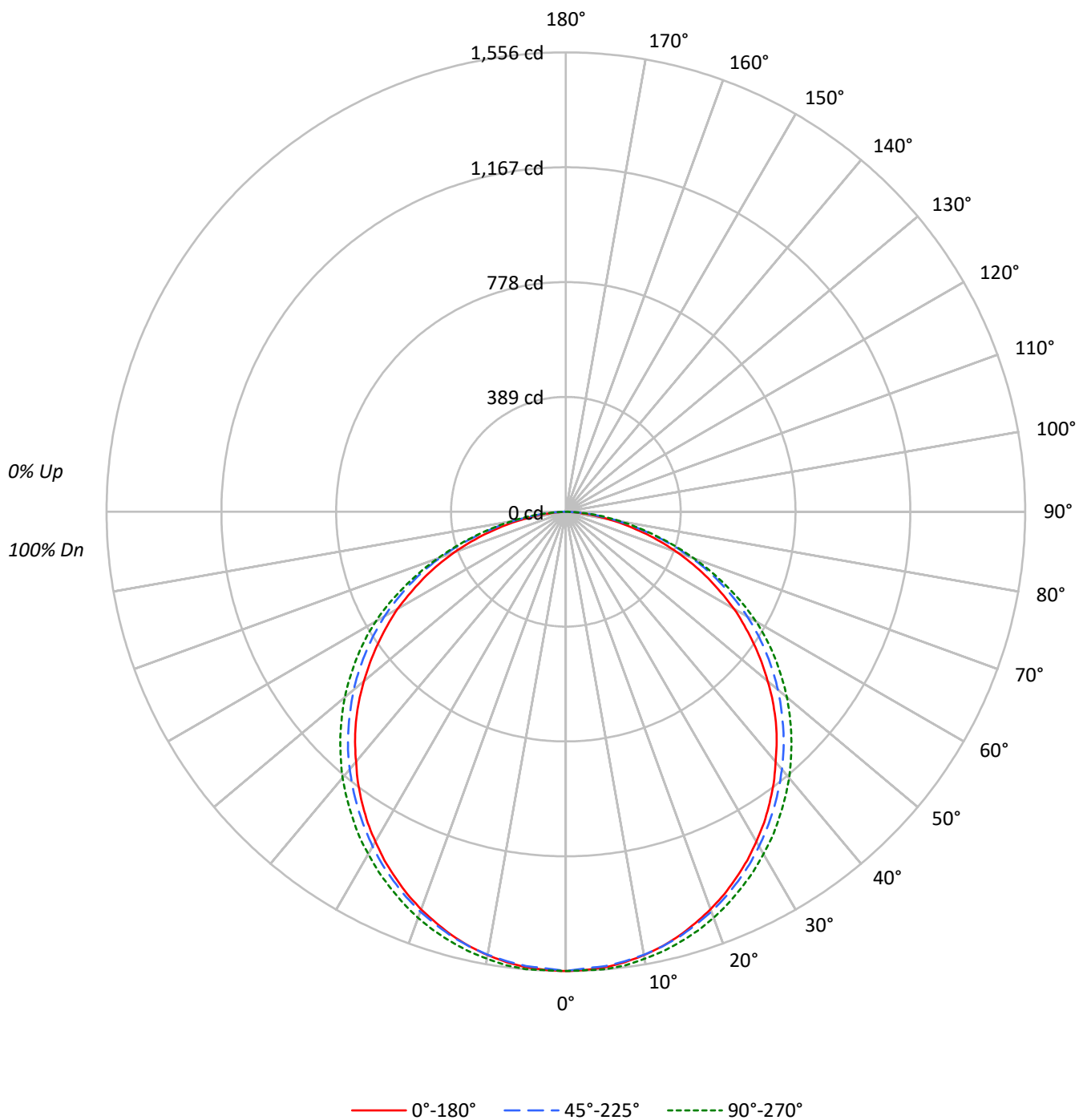
Lumens per Lamp: N/A
Luminaire Lumens: 4494.0 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P1585729

CATALOG NUMBER: 14CZSP-SB-47-L945

Luminous Intensity Polar Plot



TEST NUMBER: P1585729

CATALOG NUMBER: 14CZSP-SB-47-L945

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	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5242	5242	5242
5°	5237	5225	5259
10°	5218	5214	5260
15°	5185	5196	5257
20°	5139	5169	5248
25°	5083	5131	5227
30°	5020	5093	5209
35°	4950	5051	5190
40°	4864	5009	5177
45°	4794	4964	5148
50°	4680	4917	5124
55°	4560	4852	5085
60°	4436	4781	5017
65°	4238	4655	4826
70°	3955	4445	4554
75°	3523	4028	4147
80°	2876	3493	3667
85°	1902	2780	2977

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5148 cd/sqm

TEST NUMBER: P1585729

CATALOG NUMBER: 14CZSP-SB-47-L945

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.3	3.3
10°-20°	422.0	9.4
20°-30°	639.0	14.2
30°-40°	771.3	17.2
40°-50°	805.4	17.9
50°-60°	736.8	16.4
60°-70°	569.6	12.7
70°-80°	322.5	7.2
80°-90°	80.1	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°	1208.3	26.9
0°-40°	1979.6	44.0
0°-60°	3521.8	78.4
0°-90°	4494.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4494.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1556	1556	1556	1556	1556	
5°	1548	1559	1545	1546	1555	147
15°	1486	1499	1490	1497	1507	419
25°	1367	1385	1380	1393	1406	630
35°	1203	1220	1228	1249	1262	753
45°	1006	1025	1042	1068	1080	775
55°	776	800	826	852	866	694
65°	532	554	584	601	605	525
75°	271	294	309	317	318	287
85°	49	57	72	75	77	63
90°	0	0	0	0	0	

TEST NUMBER: P1585729

CATALOG NUMBER: 14CZSP-SB-47-L945

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1555.6	1555.6	1555.6	1555.6	1555.6
2.5°	1553.6	1564.6	1547.8	1551.0	1554.3
5°	1548.4	1559.4	1544.6	1545.9	1554.9
7.5°	1538.7	1551.0	1535.5	1538.1	1549.1
10°	1525.1	1537.4	1523.8	1526.4	1537.4
12.5°	1507.7	1520.0	1508.3	1512.2	1524.5
15°	1486.3	1499.2	1489.5	1496.7	1507.0
17.5°	1460.4	1476.6	1466.2	1477.2	1487.6
20°	1433.2	1449.4	1441.6	1451.3	1463.6
22.5°	1402.1	1418.3	1412.5	1422.9	1436.5
25°	1367.2	1384.7	1380.1	1393.1	1406.0
27.5°	1330.9	1347.8	1346.5	1360.7	1374.3
30°	1290.2	1308.3	1308.9	1325.8	1338.7
32.5°	1249.4	1265.6	1269.4	1288.2	1303.1
35°	1203.4	1220.2	1228.0	1248.7	1261.7
37.5°	1156.8	1175.6	1184.0	1206.6	1220.2
40°	1105.7	1127.0	1138.7	1162.6	1176.9
42.5°	1057.1	1076.5	1092.1	1116.0	1129.0
45°	1006.0	1025.4	1041.6	1068.1	1080.4
47.5°	950.9	972.3	989.8	1015.7	1029.3
50°	892.7	916.0	938.0	963.2	977.5
52.5°	835.1	857.7	883.0	907.6	921.8
55°	776.2	799.5	826.0	851.9	865.5
57.5°	716.6	739.9	769.0	792.3	806.6
60°	658.3	679.7	709.5	732.8	744.4
62.5°	592.3	616.9	647.3	670.6	677.1
65°	531.5	553.5	583.9	601.4	605.3
67.5°	466.7	488.7	519.2	528.9	534.7
70°	401.4	424.7	451.2	457.7	462.2
72.5°	335.3	359.3	380.0	386.5	390.3
75°	270.6	293.9	309.4	317.2	318.5
77.5°	207.8	229.2	243.4	252.5	252.5
80°	148.2	164.4	180.0	189.7	189.0
82.5°	94.5	106.8	123.0	130.1	134.6
85°	49.2	57.0	71.9	75.1	77.0
87.5°	15.5	20.1	25.9	21.4	20.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1585729
CATALOG NUMBER: 14CZSP-SB-47-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	17.44	19.09	17.80	19.40	19.71	17.98	19.63	18.34	19.94	20.26
	3H	19.21	20.70	19.58	21.03	21.39	19.84	21.33	20.21	21.66	22.02
	4H	19.83	21.24	20.23	21.59	21.96	20.51	21.92	20.91	22.26	22.64
	6H	20.24	21.54	20.65	21.91	22.30	20.99	22.30	21.40	22.66	23.05
	8H	20.34	21.59	20.76	21.97	22.37	21.15	22.40	21.57	22.79	23.19
	12H	20.39	21.58	20.82	21.96	22.39	21.25	22.44	21.68	22.83	23.25
4H	2H	18.17	19.58	18.57	19.93	20.31	18.60	20.00	18.99	20.35	20.73
	3H	20.17	21.35	20.58	21.75	22.15	20.67	21.86	21.08	22.25	22.65
	4H	20.92	21.99	21.35	22.40	22.83	21.48	22.55	21.91	22.96	23.39
	6H	21.44	22.37	21.89	22.81	23.26	22.09	23.03	22.54	23.47	23.92
	8H	21.57	22.45	22.03	22.89	23.35	22.29	23.17	22.75	23.61	24.08
	12H	21.65	22.43	22.13	22.91	23.38	22.43	23.22	22.91	23.69	24.16
8H	4H	21.27	22.15	21.73	22.59	23.05	21.77	22.64	22.22	23.08	23.55
	6H	21.90	22.63	22.40	23.12	23.59	22.50	23.23	22.99	23.71	24.19
	8H	22.10	22.75	22.61	23.26	23.74	22.77	23.42	23.28	23.93	24.41
	12H	22.22	22.80	22.73	23.29	23.85	22.98	23.55	23.48	24.04	24.60
12H	4H	21.31	22.10	21.79	22.57	23.04	21.79	22.58	22.27	23.05	23.52
	6H	21.97	22.62	22.48	23.13	23.61	22.54	23.19	23.05	23.70	24.18
	8H	22.22	22.79	22.72	23.28	23.84	22.87	23.44	23.37	23.93	24.49