

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: P1585749

Luminaire Tested: 14CZSP-SB-49HE-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585749
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-49HE-L945
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 4500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

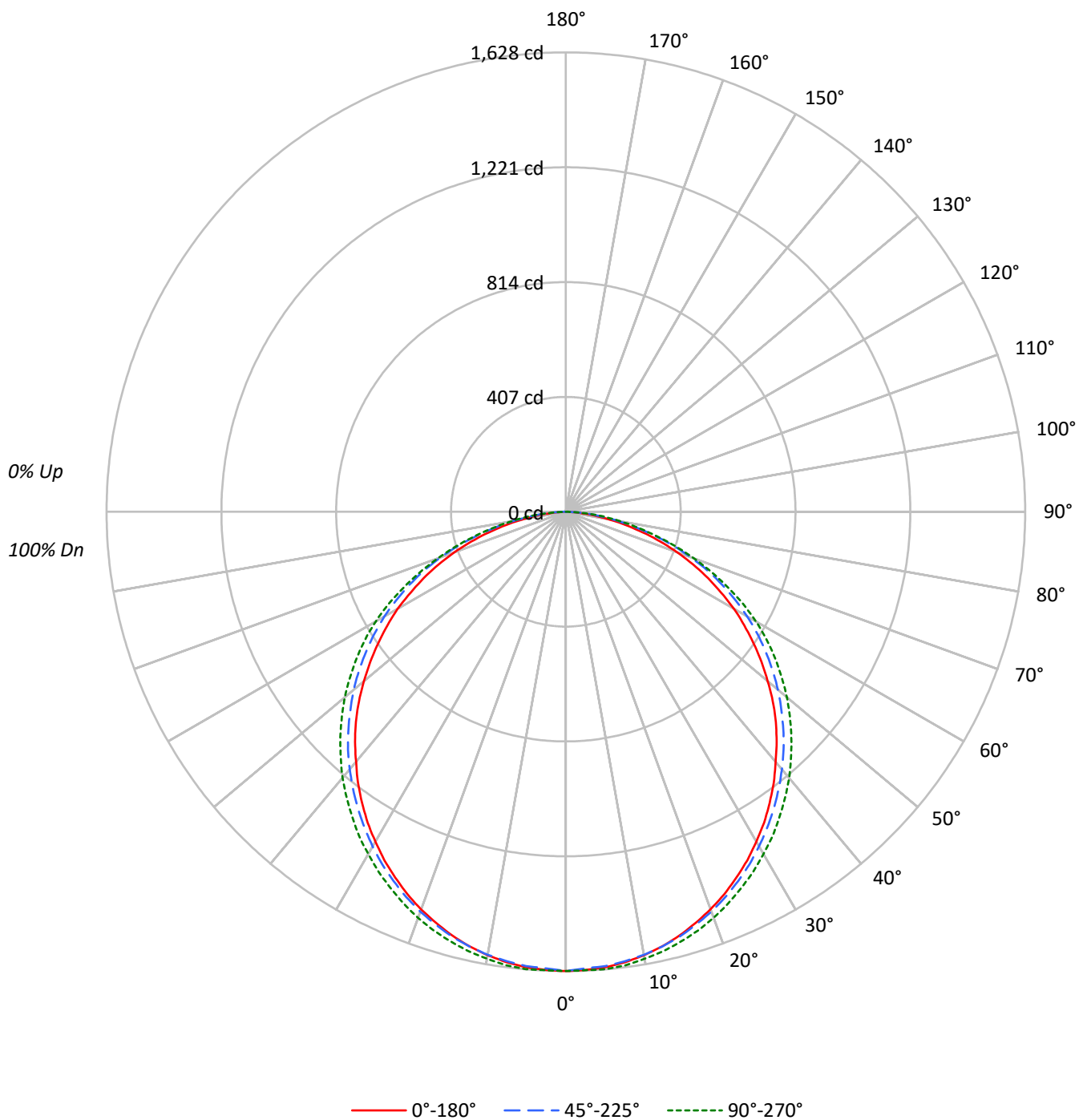
Lumens per Lamp: N/A
Luminaire Lumens: 4702.0 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 33.1
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: P1585749

CATALOG NUMBER: 14CZSP-SB-49HE-L945

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	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°	5484	5484	5484
5°	5480	5466	5503
10°	5460	5455	5504
15°	5425	5437	5501
20°	5377	5409	5491
25°	5318	5369	5469
30°	5252	5329	5450
35°	5179	5285	5430
40°	5088	5241	5416
45°	5015	5193	5387
50°	4896	5145	5361
55°	4771	5077	5320
60°	4642	5002	5249
65°	4434	4871	5049
70°	4137	4651	4764
75°	3686	4216	4338
80°	3010	3654	3838
85°	1991	2907	3116

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5387 cd/sqm

TEST NUMBER: P1585749

CATALOG NUMBER: 14CZSP-SB-49HE-L945

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.1	3.3
10°-20°	441.6	9.4
20°-30°	668.5	14.2
30°-40°	806.9	17.2
40°-50°	842.7	17.9
50°-60°	770.9	16.4
60°-70°	596.0	12.7
70°-80°	337.4	7.2
80°-90°	83.8	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°	1264.2	26.9
0°-40°	2071.2	44.0
0°-60°	3684.8	78.4
0°-90°	4702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4702.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1628	1628	1628	1628	1628	
5°	1620	1632	1616	1617	1627	154
15°	1555	1569	1558	1566	1577	439
25°	1430	1449	1444	1458	1471	659
35°	1259	1277	1285	1306	1320	788
45°	1052	1073	1090	1118	1130	811
55°	812	836	864	891	906	726
65°	556	579	611	629	633	549
75°	283	308	324	332	333	300
85°	52	60	75	79	81	66
90°	0	0	0	0	0	

TEST NUMBER: P1585749

CATALOG NUMBER: 14CZSP-SB-49HE-L945

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1627.6	1627.6	1627.6	1627.6	1627.6
2.5°	1625.5	1637.0	1619.4	1622.8	1626.2
5°	1620.1	1631.6	1616.0	1617.4	1626.9
7.5°	1610.0	1622.8	1606.6	1609.3	1620.8
10°	1595.7	1608.6	1594.4	1597.1	1608.6
12.5°	1577.4	1590.3	1578.1	1582.2	1595.1
15°	1555.1	1568.6	1558.5	1565.9	1576.8
17.5°	1528.0	1544.9	1534.1	1545.6	1556.4
20°	1499.6	1516.5	1508.4	1518.5	1531.4
22.5°	1467.0	1484.0	1477.9	1488.7	1502.9
25°	1430.5	1448.8	1444.0	1457.6	1471.1
27.5°	1392.5	1410.1	1408.8	1423.7	1437.9
30°	1349.9	1368.8	1369.5	1387.1	1400.7
32.5°	1307.2	1324.1	1328.2	1347.8	1363.4
35°	1259.1	1276.7	1284.8	1306.5	1320.1
37.5°	1210.3	1230.0	1238.8	1262.5	1276.7
40°	1156.8	1179.2	1191.4	1216.4	1231.3
42.5°	1106.0	1126.4	1142.6	1167.7	1181.2
45°	1052.5	1072.8	1089.8	1117.6	1130.4
47.5°	995.0	1017.3	1035.6	1062.7	1076.9
50°	934.0	958.4	981.4	1007.8	1022.7
52.5°	873.7	897.4	923.8	949.6	964.5
55°	812.1	836.5	864.2	891.3	905.6
57.5°	749.8	774.2	804.6	829.0	843.9
60°	688.8	711.2	742.3	766.7	778.9
62.5°	619.7	645.5	677.3	701.7	708.5
65°	556.1	579.1	610.9	629.2	633.3
67.5°	488.3	511.4	543.2	553.4	559.5
70°	419.9	444.3	472.1	478.9	483.6
72.5°	350.8	375.9	397.6	404.4	408.4
75°	283.1	307.5	323.8	331.9	333.2
77.5°	217.4	239.8	254.7	264.1	264.1
80°	155.1	172.0	188.3	198.5	197.8
82.5°	98.9	111.8	128.7	136.1	140.9
85°	51.5	59.6	75.2	78.6	80.6
87.5°	16.3	21.0	27.1	22.4	21.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1585749

CATALOG NUMBER: 14CZSP-SB-49HE-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	17.59	19.24	17.96	19.56	19.87	18.13	19.78	18.50	20.10	20.41
	3H	19.37	20.86	19.74	21.19	21.55	19.99	21.49	20.37	21.81	22.17
	4H	19.99	21.40	20.39	21.74	22.12	20.67	22.07	21.06	22.42	22.80
	6H	20.39	21.70	20.80	22.06	22.45	21.15	22.46	21.56	22.82	23.21
	8H	20.50	21.74	20.92	22.13	22.53	21.31	22.56	21.73	22.94	23.34
	12H	20.54	21.74	20.97	22.12	22.55	21.41	22.60	21.83	22.98	23.41
4H	2H	18.33	19.74	18.73	20.09	20.46	18.75	20.16	19.15	20.51	20.88
	3H	20.32	21.51	20.73	21.90	22.30	20.83	22.01	21.24	22.41	22.81
	4H	21.07	22.14	21.50	22.56	22.99	21.63	22.70	22.06	23.12	23.55
	6H	21.59	22.53	22.05	22.97	23.42	22.25	23.18	22.70	23.62	24.08
	8H	21.73	22.60	22.19	23.04	23.51	22.45	23.33	22.91	23.77	24.23
	12H	21.80	22.59	22.28	23.07	23.53	22.59	23.38	23.07	23.85	24.32
8H	4H	21.43	22.30	21.89	22.75	23.21	21.92	22.80	22.38	23.24	23.70
	6H	22.06	22.79	22.55	23.28	23.75	22.66	23.38	23.15	23.87	24.34
	8H	22.26	22.91	22.76	23.41	23.90	22.93	23.58	23.44	24.09	24.57
	12H	22.38	22.96	22.89	23.45	24.01	23.13	23.71	23.64	24.20	24.76
12H	4H	21.47	22.26	21.95	22.73	23.20	21.95	22.73	22.43	23.21	23.68
	6H	22.13	22.78	22.63	23.28	23.77	22.70	23.35	23.21	23.86	24.34
	8H	22.37	22.95	22.88	23.44	24.00	23.02	23.60	23.53	24.09	24.65