

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: P1585751

Luminaire Tested: 14CZSP-SB-49HE-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585751
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-L950
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 4500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

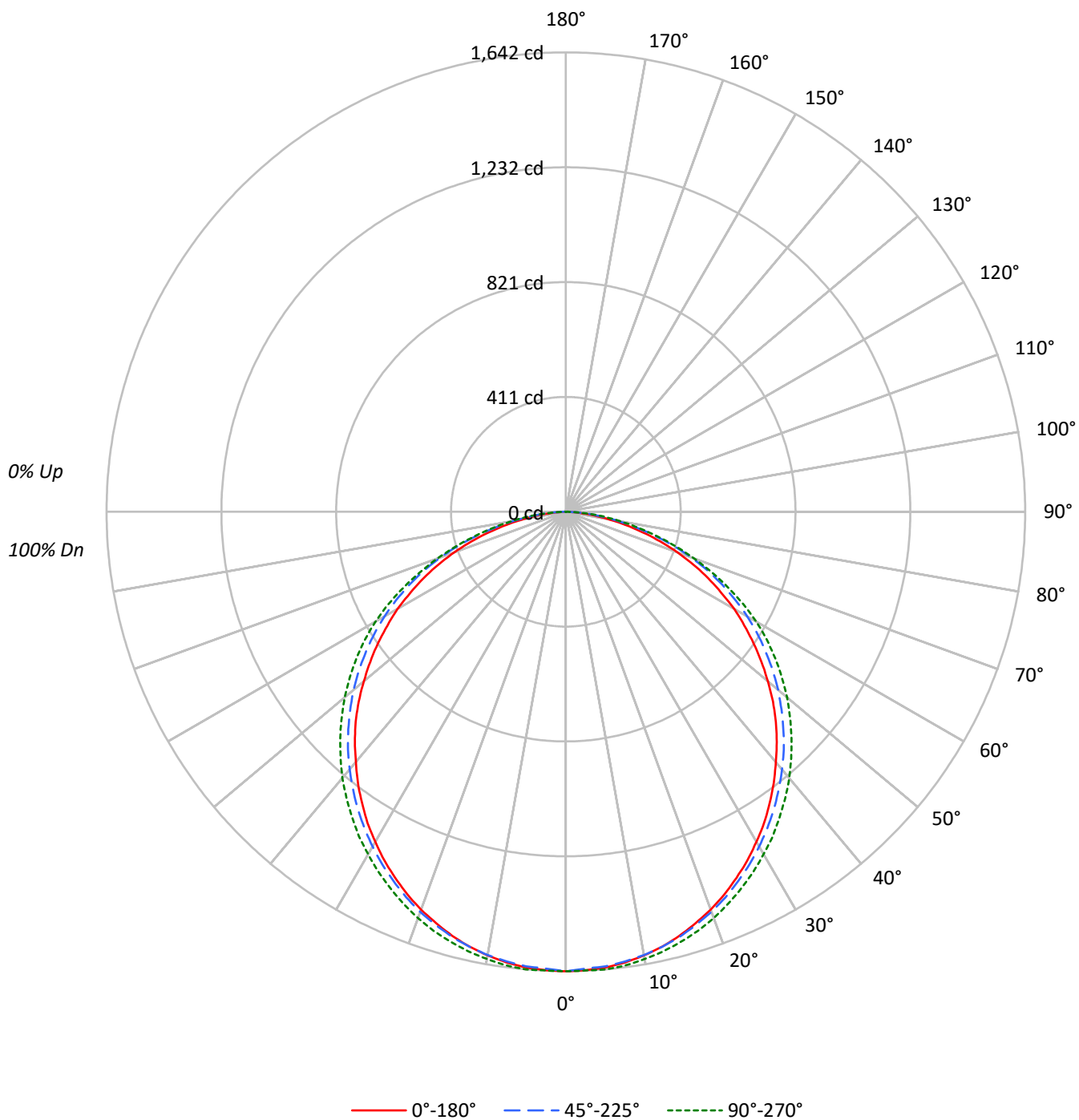
Lumens per Lamp: N/A
Luminaire Lumens: 4745.0 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1585751

CATALOG NUMBER: 14CZSP-SB-49HE-L950

Luminous Intensity Polar Plot



TEST NUMBER: P1585751

CATALOG NUMBER: 14CZSP-SB-49HE-L950

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°	5534	5534	5534
5°	5530	5516	5553
10°	5510	5505	5554
15°	5474	5486	5551
20°	5426	5458	5542
25°	5367	5418	5520
30°	5300	5377	5500
35°	5227	5334	5480
40°	5135	5289	5466
45°	5062	5240	5436
50°	4941	5192	5410
55°	4814	5123	5368
60°	4684	5048	5297
65°	4475	4915	5096
70°	4175	4693	4808
75°	3720	4253	4378
80°	3037	3687	3873
85°	2007	2934	3143

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5436 cd/sqm

TEST NUMBER: P1585751

CATALOG NUMBER: 14CZSP-SB-49HE-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.6	3.3
10°-20°	445.6	9.4
20°-30°	674.6	14.2
30°-40°	814.3	17.2
40°-50°	850.4	17.9
50°-60°	777.9	16.4
60°-70°	601.4	12.7
70°-80°	340.5	7.2
80°-90°	84.6	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°	1275.8	26.9
0°-40°	2090.1	44.0
0°-60°	3718.5	78.4
0°-90°	4745.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4745.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1642	1642	1642	1642	1642	
5°	1635	1646	1631	1632	1642	155
15°	1569	1583	1573	1580	1591	443
25°	1444	1462	1457	1471	1485	665
35°	1271	1288	1297	1318	1332	795
45°	1062	1083	1100	1128	1141	818
55°	820	844	872	900	914	733
65°	561	584	616	635	639	554
75°	286	310	327	335	336	303
85°	52	60	76	79	81	67
90°	0	0	0	0	0	

TEST NUMBER: P1585751

CATALOG NUMBER: 14CZSP-SB-49HE-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1642.4	1642.4	1642.4	1642.4	1642.4
2.5°	1640.4	1652.0	1634.2	1637.7	1641.1
5°	1634.9	1646.5	1630.8	1632.2	1641.8
7.5°	1624.7	1637.7	1621.3	1624.0	1635.6
10°	1610.3	1623.3	1609.0	1611.7	1623.3
12.5°	1591.9	1604.9	1592.5	1596.7	1609.6
15°	1569.3	1583.0	1572.7	1580.2	1591.2
17.5°	1542.0	1559.1	1548.1	1559.7	1570.7
20°	1513.3	1530.4	1522.1	1532.4	1545.4
22.5°	1480.5	1497.5	1491.4	1502.3	1516.7
25°	1443.5	1462.0	1457.2	1470.9	1484.6
27.5°	1405.3	1423.0	1421.7	1436.7	1451.1
30°	1362.2	1381.3	1382.0	1399.8	1413.5
32.5°	1319.2	1336.2	1340.3	1360.2	1375.9
35°	1270.6	1288.4	1296.6	1318.5	1332.1
37.5°	1221.4	1241.2	1250.1	1274.0	1288.4
40°	1167.4	1190.0	1202.3	1227.6	1242.6
42.5°	1116.2	1136.7	1153.1	1178.4	1192.0
45°	1062.2	1082.7	1099.7	1127.8	1140.8
47.5°	1004.1	1026.6	1045.1	1072.4	1086.8
50°	942.5	967.1	990.4	1017.0	1032.1
52.5°	881.7	905.6	932.3	958.3	973.3
55°	819.5	844.1	872.1	899.5	913.8
57.5°	756.6	781.2	812.0	836.6	851.6
60°	695.1	717.7	749.1	773.7	786.0
62.5°	625.4	651.4	683.5	708.1	714.9
65°	561.2	584.4	616.5	635.0	639.1
67.5°	492.8	516.0	548.2	558.4	564.6
70°	423.8	448.4	476.4	483.2	488.0
72.5°	354.1	379.3	401.2	408.0	412.1
75°	285.7	310.3	326.7	334.9	336.3
77.5°	219.4	242.0	257.0	266.6	266.6
80°	156.5	173.6	190.0	200.3	199.6
82.5°	99.8	112.8	129.9	137.4	142.2
85°	51.9	60.1	75.9	79.3	81.3
87.5°	16.4	21.2	27.3	22.6	21.9
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1585751
CATALOG NUMBER: 14CZSP-SB-49HE-L950

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	17.62	19.27	17.99	19.59	19.90	18.17	19.82	18.53	20.13	20.44
	3H	19.40	20.89	19.77	21.22	21.58	20.03	21.52	20.40	21.85	22.21
	4H	20.02	21.43	20.42	21.78	22.15	20.70	22.11	21.10	22.45	22.83
	6H	20.43	21.73	20.84	22.10	22.49	21.18	22.49	21.59	22.85	23.24
	8H	20.53	21.77	20.95	22.16	22.56	21.34	22.59	21.76	22.98	23.37
	12H	20.57	21.77	21.00	22.15	22.58	21.44	22.63	21.87	23.01	23.44
4H	2H	18.36	19.77	18.76	20.12	20.49	18.78	20.19	19.18	20.54	20.92
	3H	20.36	21.54	20.76	21.93	22.33	20.86	22.05	21.27	22.44	22.84
	4H	21.10	22.17	21.54	22.59	23.02	21.66	22.73	22.10	23.15	23.58
	6H	21.62	22.56	22.08	23.00	23.45	22.28	23.21	22.73	23.65	24.11
	8H	21.76	22.63	22.22	23.08	23.54	22.48	23.36	22.94	23.80	24.26
	12H	21.84	22.62	22.32	23.10	23.57	22.62	23.41	23.10	23.88	24.35
8H	4H	21.46	22.33	21.92	22.78	23.24	21.95	22.83	22.41	23.27	23.74
	6H	22.09	22.82	22.59	23.31	23.78	22.69	23.41	23.18	23.90	24.38
	8H	22.29	22.94	22.80	23.44	23.93	22.96	23.61	23.47	24.12	24.60
	12H	22.41	22.99	22.92	23.48	24.04	23.17	23.74	23.67	24.23	24.79
12H	4H	21.50	22.29	21.98	22.76	23.23	21.98	22.77	22.46	23.24	23.71
	6H	22.16	22.81	22.67	23.32	23.80	22.73	23.38	23.24	23.89	24.37
	8H	22.41	22.98	22.91	23.47	24.03	23.06	23.63	23.56	24.12	24.68