

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: P1585745

Luminaire Tested: 14CZSP-SB-49HE-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585745
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-L935
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 4500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

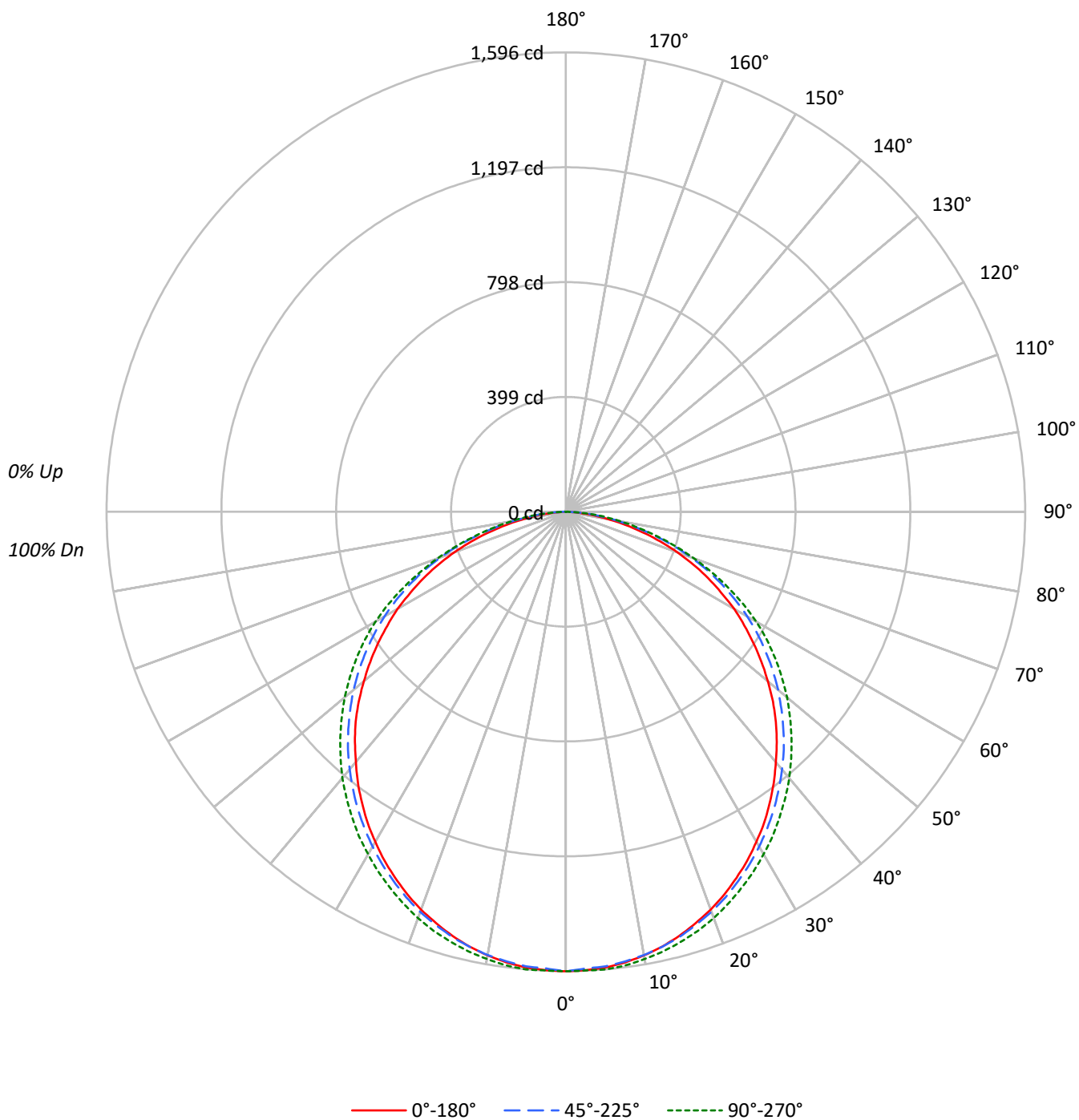
Lumens per Lamp: N/A
Luminaire Lumens: 4612.0 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

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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
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°	5379	5379	5379
5°	5375	5362	5397
10°	5355	5351	5399
15°	5321	5332	5395
20°	5274	5305	5386
25°	5217	5266	5365
30°	5151	5227	5346
35°	5080	5184	5326
40°	4991	5140	5313
45°	4920	5094	5284
50°	4802	5046	5259
55°	4679	4980	5218
60°	4553	4907	5149
65°	4349	4777	4953
70°	4058	4561	4673
75°	3615	4135	4256
80°	2951	3584	3764
85°	1952	2849	3058

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5284 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	3.3
10°-20°	433.1	9.4
20°-30°	655.7	14.2
30°-40°	791.5	17.2
40°-50°	826.6	17.9
50°-60°	756.2	16.4
60°-70°	584.6	12.7
70°-80°	331.0	7.2
80°-90°	82.2	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°	1240.0	26.9
0°-40°	2031.5	44.0
0°-60°	3614.3	78.4
0°-90°	4612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4612.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1596	1596	1596	1596	1596	
5°	1589	1600	1585	1586	1596	151
15°	1525	1539	1529	1536	1547	430
25°	1403	1421	1416	1430	1443	647
35°	1235	1252	1260	1282	1295	773
45°	1032	1052	1069	1096	1109	795
55°	796	820	848	874	888	712
65°	545	568	599	617	621	538
75°	278	302	318	326	327	294
85°	50	58	74	77	79	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1596.4	1596.4	1596.4	1596.4	1596.4
2.5°	1594.4	1605.7	1588.4	1591.8	1595.1
5°	1589.1	1600.4	1585.1	1586.4	1595.7
7.5°	1579.1	1591.8	1575.8	1578.5	1589.8
10°	1565.2	1577.8	1563.9	1566.5	1577.8
12.5°	1547.2	1559.9	1547.9	1551.9	1564.5
15°	1525.3	1538.6	1528.6	1536.0	1546.6
17.5°	1498.8	1515.4	1504.7	1516.0	1526.7
20°	1470.8	1487.5	1479.5	1489.4	1502.1
22.5°	1439.0	1455.6	1449.6	1460.2	1474.2
25°	1403.1	1421.0	1416.4	1429.7	1442.9
27.5°	1365.9	1383.2	1381.8	1396.4	1410.4
30°	1324.0	1342.6	1343.3	1360.6	1373.9
32.5°	1282.2	1298.8	1302.8	1322.0	1337.3
35°	1235.0	1252.3	1260.3	1281.5	1294.8
37.5°	1187.2	1206.4	1215.1	1238.3	1252.3
40°	1134.7	1156.6	1168.6	1193.2	1207.8
42.5°	1084.9	1104.8	1120.7	1145.3	1158.6
45°	1032.4	1052.3	1068.9	1096.2	1108.8
47.5°	975.9	997.8	1015.8	1042.3	1056.3
50°	916.1	940.0	962.6	988.5	1003.2
52.5°	857.0	880.3	906.2	931.4	946.0
55°	796.5	820.5	847.7	874.3	888.2
57.5°	735.4	759.3	789.2	813.2	827.8
60°	675.6	697.6	728.1	752.0	764.0
62.5°	607.9	633.1	664.3	688.3	694.9
65°	545.4	568.0	599.2	617.2	621.2
67.5°	479.0	501.6	532.8	542.8	548.7
70°	411.9	435.8	463.0	469.7	474.3
72.5°	344.1	368.7	390.0	396.6	400.6
75°	277.7	301.6	317.6	325.5	326.9
77.5°	213.3	235.2	249.8	259.1	259.1
80°	152.1	168.7	184.7	194.7	194.0
82.5°	97.0	109.6	126.2	133.5	138.2
85°	50.5	58.5	73.7	77.1	79.1
87.5°	15.9	20.6	26.6	21.9	21.3
90°	0.0	0.0	0.0	0.0	0.0

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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	17.53	19.18	17.89	19.49	19.80	18.07	19.72	18.43	20.03	20.35
	3H	19.30	20.79	19.67	21.12	21.48	19.93	21.42	20.30	21.75	22.11
	4H	19.92	21.33	20.32	21.68	22.05	20.60	22.01	21.00	22.35	22.73
	6H	20.33	21.63	20.74	22.00	22.39	21.08	22.39	21.50	22.75	23.14
	8H	20.43	21.68	20.85	22.06	22.46	21.24	22.49	21.66	22.88	23.28
	12H	20.48	21.67	20.91	22.05	22.48	21.34	22.53	21.77	22.92	23.34
4H	2H	18.26	19.67	18.66	20.02	20.39	18.69	20.09	19.08	20.44	20.82
	3H	20.26	21.44	20.67	21.84	22.23	20.76	21.95	21.17	22.34	22.74
	4H	21.01	22.08	21.44	22.49	22.92	21.57	22.64	22.00	23.05	23.48
	6H	21.53	22.46	21.98	22.90	23.35	22.18	23.12	22.63	23.56	24.01
	8H	21.66	22.54	22.12	22.98	23.44	22.38	23.26	22.84	23.70	24.17
	12H	21.74	22.52	22.22	23.00	23.47	22.52	23.31	23.00	23.79	24.25
8H	4H	21.36	22.24	21.82	22.68	23.14	21.86	22.73	22.32	23.17	23.64
	6H	21.99	22.72	22.49	23.21	23.68	22.59	23.32	23.08	23.80	24.28
	8H	22.19	22.84	22.70	23.35	23.83	22.86	23.51	23.37	24.02	24.50
	12H	22.31	22.89	22.82	23.38	23.94	23.07	23.64	23.57	24.13	24.69
12H	4H	21.40	22.19	21.88	22.66	23.13	21.88	22.67	22.36	23.14	23.61
	6H	22.06	22.71	22.57	23.22	23.70	22.63	23.28	23.14	23.79	24.27
	8H	22.31	22.88	22.81	23.37	23.93	22.96	23.53	23.46	24.02	24.58