

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: P1587751

Luminaire Tested: 22CZSP-SB-49HE-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-49HE-L950
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 4500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

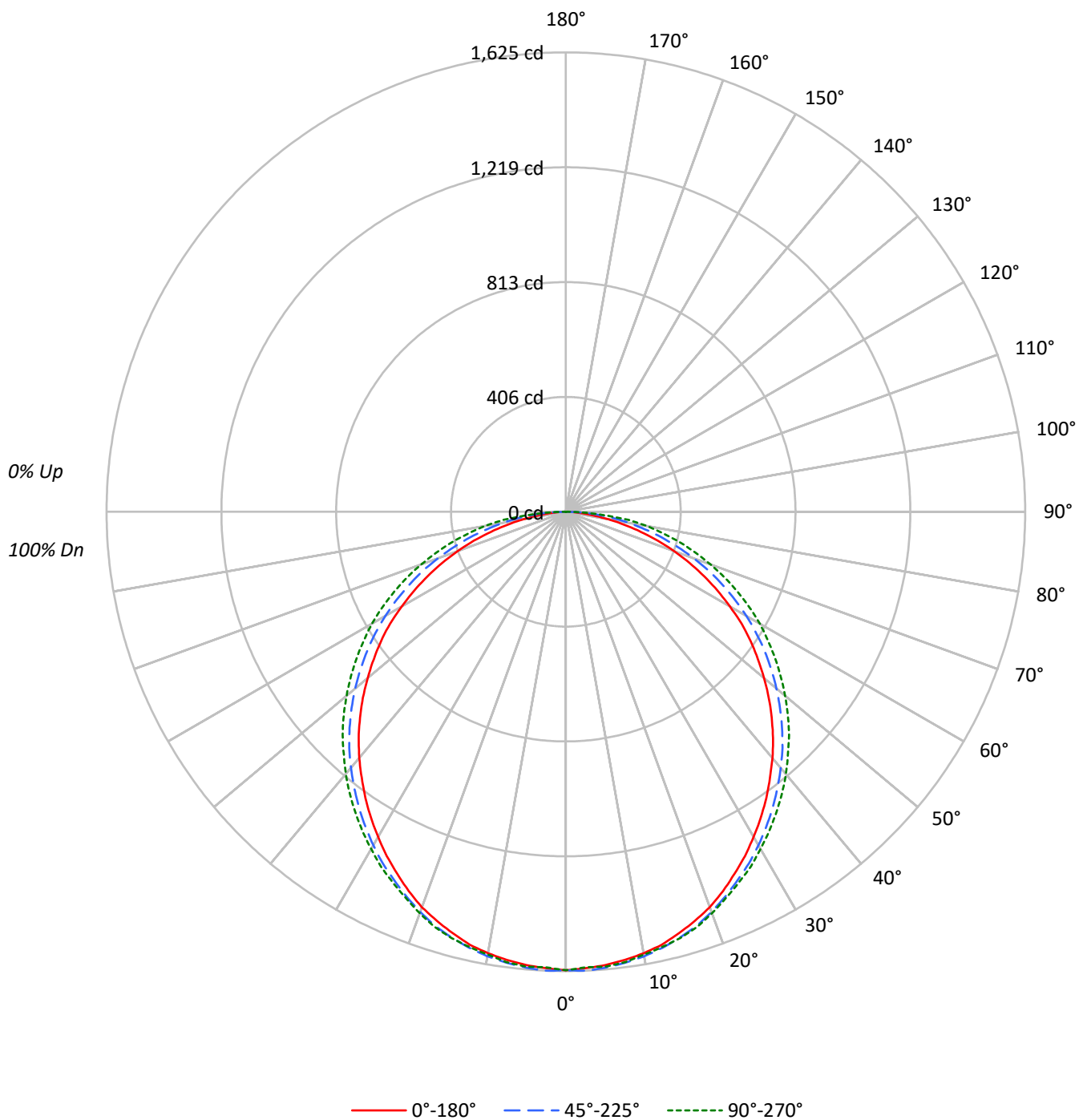
Lumens per Lamp: N/A
Luminaire Lumens: 4733.0 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 32.2
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			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	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5078	5078	5078
5°	5060	5088	5076
10°	5042	5077	5058
15°	5004	5056	5063
20°	4960	5020	5037
25°	4880	4967	5001
30°	4803	4926	4980
35°	4725	4878	4963
40°	4648	4836	4951
45°	4560	4791	4946
50°	4460	4738	4934
55°	4359	4687	4933
60°	4197	4617	4963
65°	4000	4528	4966
70°	3733	4402	4980
75°	3321	4242	5066
80°	2728	4065	5257
85°	1800	3816	4750

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5383 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.4	3.2
10°-20°	439.1	9.3
20°-30°	661.9	14.0
30°-40°	797.1	16.8
40°-50°	832.7	17.6
50°-60°	765.0	16.2
60°-70°	602.5	12.7
70°-80°	369.4	7.8
80°-90°	112.0	2.4
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°	1254.4	26.5
0°-40°	2051.5	43.3
0°-60°	3649.2	77.1
0°-90°	4733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4733.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1622	1622	1622	1622	1622	
5°	1610	1613	1619	1617	1615	153
15°	1544	1550	1560	1566	1562	436
25°	1412	1422	1438	1452	1448	651
35°	1236	1252	1276	1299	1298	773
45°	1030	1052	1082	1112	1117	794
55°	798	821	858	896	904	712
65°	540	568	611	652	670	534
75°	274	306	351	393	419	292
85°	50	74	106	118	132	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1621.8	1621.8	1621.8	1621.8	1621.8
2.5°	1615.8	1619.8	1624.8	1616.8	1612.8
5°	1609.8	1612.8	1618.8	1616.8	1614.8
7.5°	1598.8	1600.8	1608.8	1608.8	1606.8
10°	1585.7	1589.8	1596.8	1595.8	1590.8
12.5°	1568.7	1571.7	1579.7	1579.7	1576.7
15°	1543.7	1549.7	1559.7	1565.7	1561.7
17.5°	1517.6	1523.6	1536.7	1542.7	1540.7
20°	1488.6	1493.6	1506.6	1515.6	1511.6
22.5°	1452.5	1458.5	1473.6	1483.6	1479.6
25°	1412.4	1421.5	1437.5	1452.5	1447.5
27.5°	1372.4	1382.4	1402.4	1417.5	1415.5
30°	1328.3	1341.3	1362.4	1381.4	1377.4
32.5°	1283.2	1298.2	1320.3	1340.3	1339.3
35°	1236.1	1252.2	1276.2	1299.3	1298.2
37.5°	1186.1	1205.1	1230.1	1255.2	1256.2
40°	1137.0	1155.0	1183.0	1210.1	1211.1
42.5°	1084.9	1103.9	1134.0	1162.0	1163.0
45°	1029.8	1051.8	1081.9	1111.9	1116.9
47.5°	973.7	996.7	1027.8	1059.8	1065.8
50°	915.6	939.6	972.7	1006.7	1012.8
52.5°	856.5	881.5	915.6	949.6	958.7
55°	798.4	821.4	858.5	895.6	903.6
57.5°	737.3	758.3	798.4	837.5	847.5
60°	670.2	696.2	737.3	776.3	792.4
62.5°	605.0	633.1	675.2	714.2	732.3
65°	539.9	568.0	611.1	652.1	670.2
67.5°	473.8	502.9	549.0	588.0	608.1
70°	407.7	436.8	480.8	522.9	543.9
72.5°	341.6	372.6	415.7	458.8	479.8
75°	274.5	306.5	350.6	392.7	418.7
77.5°	211.4	242.4	286.5	329.6	351.6
80°	151.3	182.3	225.4	268.5	291.5
82.5°	96.2	125.2	167.3	203.4	224.4
85°	50.1	74.1	106.2	118.2	132.2
87.5°	15.0	29.1	41.1	46.1	57.1
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	17.16	18.82	17.52	19.14	19.45	17.91	19.57	18.27	19.88	20.20
	3H	18.92	20.43	19.30	20.76	21.12	20.00	21.51	20.38	21.83	22.19
	4H	19.55	20.97	19.94	21.32	21.69	20.89	22.31	21.28	22.66	23.03
	6H	19.96	21.28	20.37	21.64	22.03	21.65	22.97	22.06	23.34	23.73
	8H	20.07	21.33	20.49	21.72	22.11	21.96	23.23	22.39	23.62	24.01
	12H	20.12	21.33	20.55	21.71	22.14	22.18	23.39	22.61	23.77	24.20
4H	2H	17.93	19.35	18.33	19.70	20.07	18.51	19.93	18.91	20.28	20.65
	3H	19.92	21.12	20.33	21.52	21.92	20.84	22.04	21.25	22.43	22.83
	4H	20.68	21.76	21.11	22.18	22.61	21.87	22.96	22.30	23.37	23.81
	6H	21.21	22.17	21.67	22.61	23.06	22.80	23.76	23.26	24.19	24.65
	8H	21.36	22.25	21.82	22.69	23.16	23.19	24.08	23.65	24.52	24.98
	12H	21.45	22.25	21.93	22.72	23.19	23.46	24.27	23.94	24.74	25.21
8H	4H	21.13	22.02	21.59	22.46	22.93	22.17	23.06	22.63	23.51	23.97
	6H	21.81	22.55	22.30	23.04	23.51	23.26	24.00	23.75	24.49	24.96
	8H	22.03	22.70	22.53	23.20	23.69	23.74	24.41	24.25	24.92	25.40
	12H	22.17	22.77	22.68	23.26	23.81	24.12	24.71	24.62	25.20	25.76
12H	4H	21.21	22.02	21.69	22.49	22.96	22.20	23.00	22.68	23.48	23.95
	6H	21.93	22.60	22.44	23.11	23.59	23.31	23.98	23.82	24.48	24.97
	8H	22.23	22.82	22.73	23.31	23.87	23.86	24.45	24.37	24.94	25.50