

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: P1589783

Luminaire Tested: 24CZSP-SB-47-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589783
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: 24CZSP-SB-47-L930
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

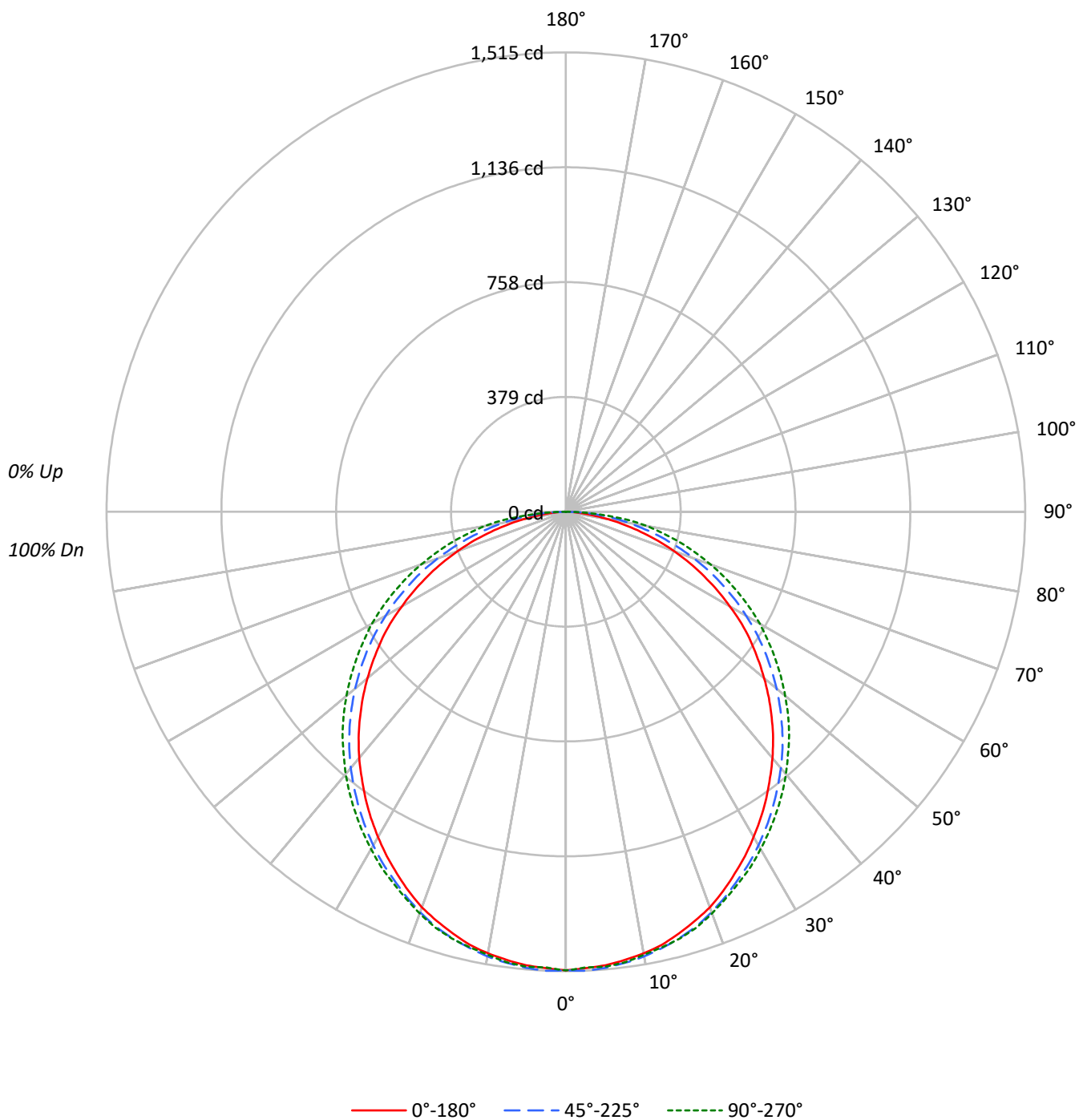
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4414.0 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' 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

TEST NUMBER: P1589783
CATALOG NUMBER: 24CZSP-SB-47-L930

Luminous Intensity Polar Plot



TEST NUMBER: P1589783

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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°	2317	2317	2317
5°	2308	2321	2315
10°	2300	2316	2307
15°	2283	2306	2309
20°	2263	2290	2298
25°	2226	2266	2281
30°	2191	2247	2272
35°	2155	2225	2264
40°	2120	2206	2258
45°	2080	2186	2256
50°	2035	2161	2251
55°	1988	2138	2250
60°	1915	2106	2264
65°	1825	2065	2265
70°	1703	2008	2272
75°	1515	1935	2311
80°	1245	1854	2398
85°	821	1740	2167

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2456 cd/sqm

TEST NUMBER: P1589783

CATALOG NUMBER: 24CZSP-SB-47-L930

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.1	3.2
10°-20°	409.5	9.3
20°-30°	617.3	14.0
30°-40°	743.3	16.8
40°-50°	776.6	17.6
50°-60°	713.5	16.2
60°-70°	561.9	12.7
70°-80°	344.5	7.8
80°-90°	104.4	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°	1169.9	26.5
0°-40°	1913.2	43.3
0°-60°	3403.2	77.1
0°-90°	4414.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4414.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1512	1512	1512	1512	1512	
5°	1501	1504	1510	1508	1506	143
15°	1440	1445	1455	1460	1456	406
25°	1317	1326	1341	1355	1350	607
35°	1153	1168	1190	1212	1211	721
45°	960	981	1009	1037	1042	741
55°	745	766	801	835	843	664
65°	504	530	570	608	625	498
75°	256	286	327	366	390	272
85°	47	69	99	110	123	60
90°	0	0	0	0	0	

TEST NUMBER: P1589783

CATALOG NUMBER: 24CZSP-SB-47-L930

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1512.5	1512.5	1512.5	1512.5	1512.5
2.5°	1506.9	1510.6	1515.3	1507.8	1504.1
5°	1501.3	1504.1	1509.7	1507.8	1506.0
7.5°	1491.0	1492.9	1500.4	1500.4	1498.5
10°	1478.9	1482.6	1489.1	1488.2	1483.5
12.5°	1463.0	1465.8	1473.3	1473.3	1470.5
15°	1439.6	1445.2	1454.6	1460.2	1456.4
17.5°	1415.3	1420.9	1433.1	1438.7	1436.8
20°	1388.2	1392.9	1405.1	1413.5	1409.7
22.5°	1354.6	1360.2	1374.2	1383.6	1379.8
25°	1317.2	1325.7	1340.6	1354.6	1349.9
27.5°	1279.9	1289.2	1307.9	1321.9	1320.1
30°	1238.8	1250.9	1270.5	1288.3	1284.6
32.5°	1196.7	1210.7	1231.3	1250.0	1249.1
35°	1152.8	1167.8	1190.2	1211.7	1210.7
37.5°	1106.1	1123.9	1147.2	1170.6	1171.5
40°	1060.3	1077.2	1103.3	1128.5	1129.5
42.5°	1011.8	1029.5	1057.5	1083.7	1084.6
45°	960.4	980.9	1009.0	1037.0	1041.7
47.5°	908.1	929.5	958.5	988.4	994.0
50°	853.9	876.3	907.1	938.9	944.5
52.5°	798.8	822.1	853.9	885.6	894.0
55°	744.6	766.1	800.6	835.2	842.7
57.5°	687.6	707.2	744.6	781.0	790.3
60°	625.0	649.3	687.6	724.0	739.0
62.5°	564.3	590.4	629.7	666.1	682.9
65°	503.5	529.7	569.9	608.2	625.0
67.5°	441.9	469.0	512.0	548.4	567.1
70°	380.2	407.3	448.4	487.7	507.3
72.5°	318.6	347.5	387.7	427.9	447.5
75°	256.0	285.9	327.0	366.2	390.5
77.5°	197.1	226.1	267.2	307.4	327.9
80°	141.1	170.0	210.2	250.4	271.9
82.5°	89.7	116.8	156.0	189.6	209.3
85°	46.7	69.1	99.0	110.2	123.3
87.5°	14.0	27.1	38.3	43.0	53.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1589783
CATALOG NUMBER: 24CZSP-SB-47-L930

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	14.43	16.09	14.80	16.41	16.72	15.18	16.84	15.54	17.16	17.47
	3H	16.19	17.70	16.57	18.03	18.39	17.27	18.78	17.65	19.11	19.47
	4H	16.82	18.24	17.22	18.59	18.96	18.16	19.58	18.56	19.93	20.30
	6H	17.23	18.55	17.64	18.92	19.31	18.93	20.25	19.34	20.61	21.00
	8H	17.34	18.60	17.76	18.99	19.39	19.24	20.50	19.66	20.89	21.29
	12H	17.39	18.60	17.82	18.98	19.41	19.45	20.66	19.88	21.04	21.47
4H	2H	15.20	16.63	15.60	16.97	17.35	15.78	17.20	16.18	17.55	17.93
	3H	17.20	18.39	17.60	18.79	19.19	18.11	19.31	18.52	19.71	20.10
	4H	17.95	19.04	18.38	19.45	19.88	19.15	20.23	19.58	20.64	21.08
	6H	18.49	19.44	18.94	19.88	20.33	20.08	21.03	20.53	21.47	21.92
	8H	18.63	19.53	19.09	19.97	20.43	20.46	21.35	20.92	21.79	22.26
	12H	18.72	19.52	19.20	20.00	20.47	20.74	21.54	21.21	22.01	22.48
8H	4H	18.40	19.29	18.86	19.74	20.20	19.45	20.34	19.90	20.78	21.24
	6H	19.08	19.82	19.57	20.31	20.78	20.53	21.27	21.02	21.76	22.23
	8H	19.30	19.97	19.81	20.47	20.96	21.02	21.69	21.52	22.19	22.68
	12H	19.45	20.04	19.95	20.53	21.09	21.39	21.98	21.90	22.47	23.03
12H	4H	18.49	19.29	18.96	19.76	20.23	19.47	20.28	19.95	20.75	21.22
	6H	19.21	19.88	19.71	20.38	20.87	20.58	21.25	21.09	21.76	22.24
	8H	19.50	20.09	20.00	20.58	21.14	21.14	21.73	21.64	22.22	22.78