

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: P1589772

Luminaire Tested: 24CZSP-SB-47-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589772
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-SB-47-L830-S
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

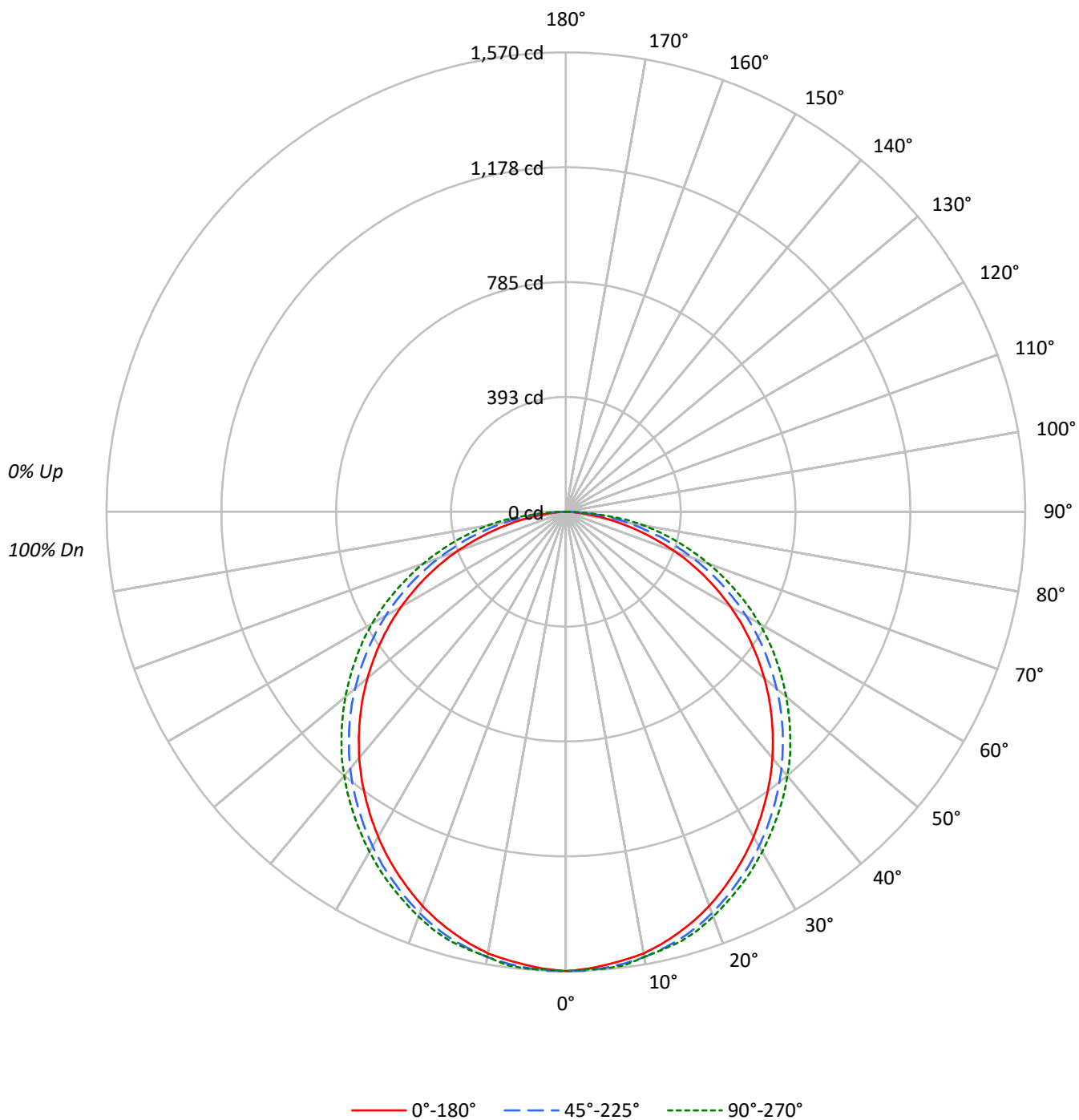
Lumens per Lamp: N/A
Luminaire Lumens: 4567.0 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

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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	108	103	99	95	106	101	97	93	97	94	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	45	39		50
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2405	2405	2405
5°	2391	2405	2409
10°	2384	2403	2402
15°	2362	2396	2410
20°	2336	2380	2400
25°	2303	2356	2386
30°	2269	2335	2373
35°	2232	2313	2362
40°	2196	2292	2355
45°	2156	2269	2349
50°	2109	2240	2343
55°	2057	2212	2340
60°	1992	2179	2342
65°	1901	2133	2329
70°	1777	2068	2323
75°	1575	1988	2332
80°	1282	1889	2400
85°	829	1743	2072

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2433 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	3.3
10°-20°	425.5	9.3
20°-30°	641.5	14.0
30°-40°	771.9	16.9
40°-50°	805.1	17.6
50°-60°	738.0	16.2
60°-70°	579.5	12.7
70°-80°	352.7	7.7
80°-90°	104.3	2.3
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°	1215.5	26.6
0°-40°	1987.4	43.5
0°-60°	3530.5	77.3
0°-90°	4567.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4567.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1570	1570	1570	1570	1570	
5°	1555	1565	1564	1562	1567	148
15°	1489	1504	1511	1513	1520	420
25°	1363	1381	1394	1403	1412	628
35°	1194	1212	1237	1255	1263	747
45°	995	1016	1047	1072	1085	767
55°	770	790	828	862	876	688
65°	525	544	588	628	642	519
75°	266	291	336	376	394	282
85°	47	67	99	111	118	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1570.0	1570.0	1570.0	1570.0	1570.0
2.5°	1564.1	1571.9	1570.0	1563.1	1566.0
5°	1555.2	1565.1	1564.1	1562.1	1567.0
7.5°	1544.4	1555.2	1556.2	1556.2	1562.1
10°	1532.6	1543.4	1545.4	1542.5	1544.4
12.5°	1513.0	1525.8	1529.7	1529.7	1532.6
15°	1489.4	1504.2	1511.0	1513.0	1519.9
17.5°	1463.9	1479.6	1488.4	1493.3	1499.2
20°	1433.4	1450.1	1459.9	1465.8	1472.7
22.5°	1399.0	1417.7	1428.5	1434.4	1442.3
25°	1362.7	1381.3	1394.1	1403.0	1411.8
27.5°	1324.4	1342.0	1359.7	1370.5	1378.4
30°	1283.1	1301.8	1320.4	1334.2	1342.0
32.5°	1238.9	1258.5	1280.1	1294.9	1303.7
35°	1193.7	1212.4	1236.9	1254.6	1263.4
37.5°	1147.5	1167.2	1192.7	1211.4	1222.2
40°	1098.4	1119.0	1146.5	1167.2	1178.0
42.5°	1047.3	1067.0	1097.4	1121.0	1133.8
45°	995.2	1015.9	1047.3	1071.9	1084.6
47.5°	941.2	960.8	995.2	1023.7	1034.5
50°	885.2	903.9	940.2	970.7	983.4
52.5°	828.2	847.9	884.2	916.6	930.4
55°	770.3	789.9	828.2	861.6	876.4
57.5°	711.3	731.0	770.3	804.6	822.3
60°	650.4	670.0	711.3	746.7	764.4
62.5°	587.5	608.1	650.4	686.7	705.4
65°	524.6	544.3	588.5	627.8	642.5
67.5°	461.8	481.4	524.6	563.9	581.6
70°	396.9	419.5	461.8	503.0	518.7
72.5°	329.1	354.7	396.9	440.1	455.9
75°	266.2	290.8	336.0	376.3	394.0
77.5°	204.4	230.9	273.1	314.4	332.1
80°	145.4	170.9	214.2	253.5	272.1
82.5°	92.4	114.9	158.2	193.5	207.3
85°	47.2	66.8	99.2	111.0	117.9
87.5°	13.8	23.6	35.4	44.2	49.1
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	14.55	16.21	14.91	16.52	16.84	15.28	16.94	15.65	17.26	17.57
	3H	16.32	17.82	16.69	18.15	18.51	17.36	18.87	17.74	19.19	19.55
	4H	16.94	18.36	17.33	18.70	19.08	18.23	19.65	18.63	19.99	20.37
	6H	17.34	18.66	17.75	19.03	19.42	18.97	20.29	19.38	20.65	21.04
	8H	17.45	18.71	17.87	19.10	19.49	19.27	20.53	19.69	20.92	21.31
	12H	17.50	18.70	17.93	19.09	19.51	19.46	20.67	19.89	21.05	21.48
4H	2H	15.32	16.74	15.71	17.08	17.46	15.89	17.31	16.29	17.65	18.03
	3H	17.31	18.50	17.72	18.90	19.30	18.20	19.40	18.61	19.79	20.19
	4H	18.05	19.13	18.48	19.55	19.98	19.22	20.30	19.65	20.72	21.15
	6H	18.58	19.53	19.03	19.97	20.42	20.12	21.07	20.58	21.51	21.97
	8H	18.72	19.61	19.18	20.05	20.52	20.49	21.38	20.95	21.82	22.29
	12H	18.80	19.60	19.28	20.08	20.54	20.75	21.55	21.22	22.02	22.49
8H	4H	18.50	19.38	18.95	19.83	20.29	19.52	20.41	19.98	20.85	21.31
	6H	19.16	19.90	19.65	20.39	20.86	20.57	21.32	21.07	21.80	22.28
	8H	19.37	20.03	19.88	20.54	21.02	21.05	21.71	21.55	22.22	22.70
	12H	19.50	20.09	20.01	20.58	21.14	21.40	21.99	21.90	22.48	23.04
12H	4H	18.58	19.38	19.06	19.85	20.32	19.54	20.34	20.02	20.82	21.29
	6H	19.28	19.95	19.79	20.45	20.94	20.62	21.29	21.13	21.80	22.28
	8H	19.56	20.15	20.06	20.64	21.20	21.16	21.75	21.67	22.24	22.80