

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: P1589773

Luminaire Tested: 24CZSP-SB-47-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589773
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-L830
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

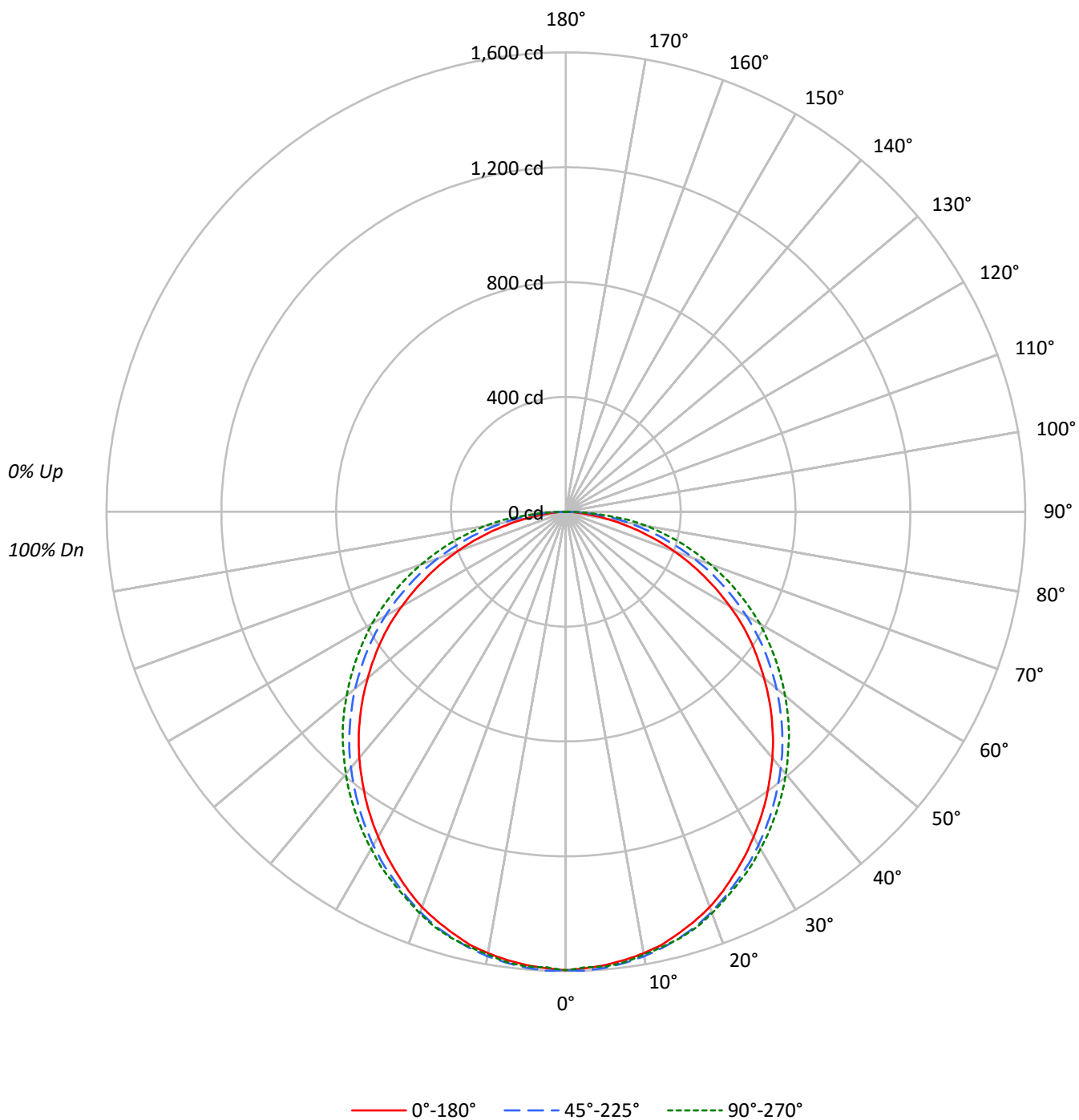
Lumens per Lamp: N/A
Luminaire Lumens: 4660.0 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

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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°	2446	2446	2446
5°	2437	2450	2444
10°	2428	2445	2436
15°	2410	2435	2438
20°	2389	2418	2426
25°	2350	2392	2409
30°	2313	2372	2398
35°	2276	2349	2390
40°	2238	2329	2384
45°	2196	2307	2382
50°	2148	2282	2376
55°	2099	2257	2376
60°	2021	2224	2390
65°	1927	2180	2391
70°	1798	2120	2399
75°	1599	2043	2440
80°	1313	1957	2531
85°	866	1836	2288

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2592 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	3.2
10°-20°	432.3	9.3
20°-30°	651.7	14.0
30°-40°	784.8	16.8
40°-50°	819.9	17.6
50°-60°	753.2	16.2
60°-70°	593.1	12.7
70°-80°	363.7	7.8
80°-90°	110.3	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°	1235.1	26.5
0°-40°	2019.8	43.3
0°-60°	3592.9	77.1
0°-90°	4660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4660.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1597	1597	1597	1597	1597	
5°	1585	1588	1594	1592	1590	151
15°	1520	1526	1536	1542	1538	429
25°	1391	1400	1415	1430	1425	641
35°	1217	1233	1256	1279	1278	761
45°	1014	1036	1065	1095	1100	782
55°	786	809	845	882	890	701
65°	532	559	602	642	660	526
75°	270	302	345	387	412	287
85°	49	73	104	116	130	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1596.8	1596.8	1596.8	1596.8	1596.8
2.5°	1590.9	1594.8	1599.8	1591.9	1587.9
5°	1585.0	1587.9	1593.8	1591.9	1589.9
7.5°	1574.1	1576.1	1584.0	1584.0	1582.0
10°	1561.3	1565.2	1572.1	1571.2	1566.2
12.5°	1544.5	1547.5	1555.4	1555.4	1552.4
15°	1519.9	1525.8	1535.6	1541.6	1537.6
17.5°	1494.2	1500.1	1513.0	1518.9	1516.9
20°	1465.6	1470.6	1483.4	1492.2	1488.3
22.5°	1430.1	1436.0	1450.8	1460.7	1456.7
25°	1390.7	1399.5	1415.3	1430.1	1425.2
27.5°	1351.2	1361.1	1380.8	1395.6	1393.6
30°	1307.8	1320.6	1341.3	1360.1	1356.1
32.5°	1263.4	1278.2	1299.9	1319.6	1318.7
35°	1217.1	1232.9	1256.5	1279.2	1278.2
37.5°	1167.8	1186.5	1211.2	1235.8	1236.8
40°	1119.4	1137.2	1164.8	1191.4	1192.4
42.5°	1068.1	1086.9	1116.5	1144.1	1145.1
45°	1013.9	1035.6	1065.2	1094.8	1099.7
47.5°	958.7	981.4	1011.9	1043.5	1049.4
50°	901.5	925.1	957.7	991.2	997.1
52.5°	843.3	867.9	901.5	935.0	943.9
55°	786.1	808.8	845.2	881.7	889.6
57.5°	725.9	746.6	786.1	824.5	834.4
60°	659.8	685.5	725.9	764.4	780.2
62.5°	595.7	623.3	664.8	703.2	721.0
65°	531.6	559.2	601.6	642.1	659.8
67.5°	466.5	495.1	540.5	578.9	598.7
70°	401.4	430.0	473.4	514.8	535.6
72.5°	336.3	366.9	409.3	451.7	472.4
75°	270.2	301.8	345.2	386.6	412.3
77.5°	208.1	238.7	282.1	324.5	346.2
80°	148.9	179.5	221.9	264.3	287.0
82.5°	94.7	123.3	164.7	200.2	220.9
85°	49.3	73.0	104.5	116.4	130.2
87.5°	14.8	28.6	40.4	45.4	56.2
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	14.62	16.28	14.99	16.60	16.91	15.37	17.03	15.73	17.34	17.66
	3H	16.38	17.89	16.76	18.22	18.58	17.46	18.97	17.84	19.30	19.66
	4H	17.01	18.43	17.41	18.78	19.15	18.35	19.77	18.74	20.12	20.49
	6H	17.42	18.74	17.83	19.10	19.49	19.11	20.43	19.52	20.80	21.19
	8H	17.53	18.79	17.95	19.18	19.58	19.43	20.69	19.85	21.08	21.47
	12H	17.58	18.79	18.01	19.17	19.60	19.64	20.85	20.07	21.23	21.66
4H	2H	15.39	16.81	15.79	17.16	17.54	15.97	17.39	16.37	17.74	18.11
	3H	17.38	18.58	17.79	18.98	19.38	18.30	19.50	18.71	19.89	20.29
	4H	18.14	19.22	18.57	19.64	20.07	19.33	20.42	19.76	20.83	21.27
	6H	18.67	19.63	19.13	20.07	20.52	20.26	21.22	20.72	21.66	22.11
	8H	18.82	19.71	19.28	20.16	20.62	20.65	21.54	21.11	21.98	22.45
	12H	18.91	19.71	19.39	20.19	20.65	20.92	21.73	21.40	22.20	22.67
8H	4H	18.59	19.48	19.05	19.92	20.39	19.63	20.53	20.09	20.97	21.43
	6H	19.27	20.01	19.76	20.50	20.97	20.72	21.46	21.21	21.95	22.42
	8H	19.49	20.16	20.00	20.66	21.15	21.21	21.87	21.71	22.38	22.86
	12H	19.64	20.23	20.14	20.72	21.28	21.58	22.17	22.09	22.66	23.22
12H	4H	18.67	19.48	19.15	19.95	20.42	19.66	20.46	20.14	20.94	21.41
	6H	19.40	20.07	19.90	20.57	21.05	20.77	21.44	21.28	21.94	22.43
	8H	19.69	20.28	20.19	20.77	21.33	21.32	21.92	21.83	22.41	22.96