

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: P1589775

Luminaire Tested: 24CZSP-SB-47-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589775
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-L835
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

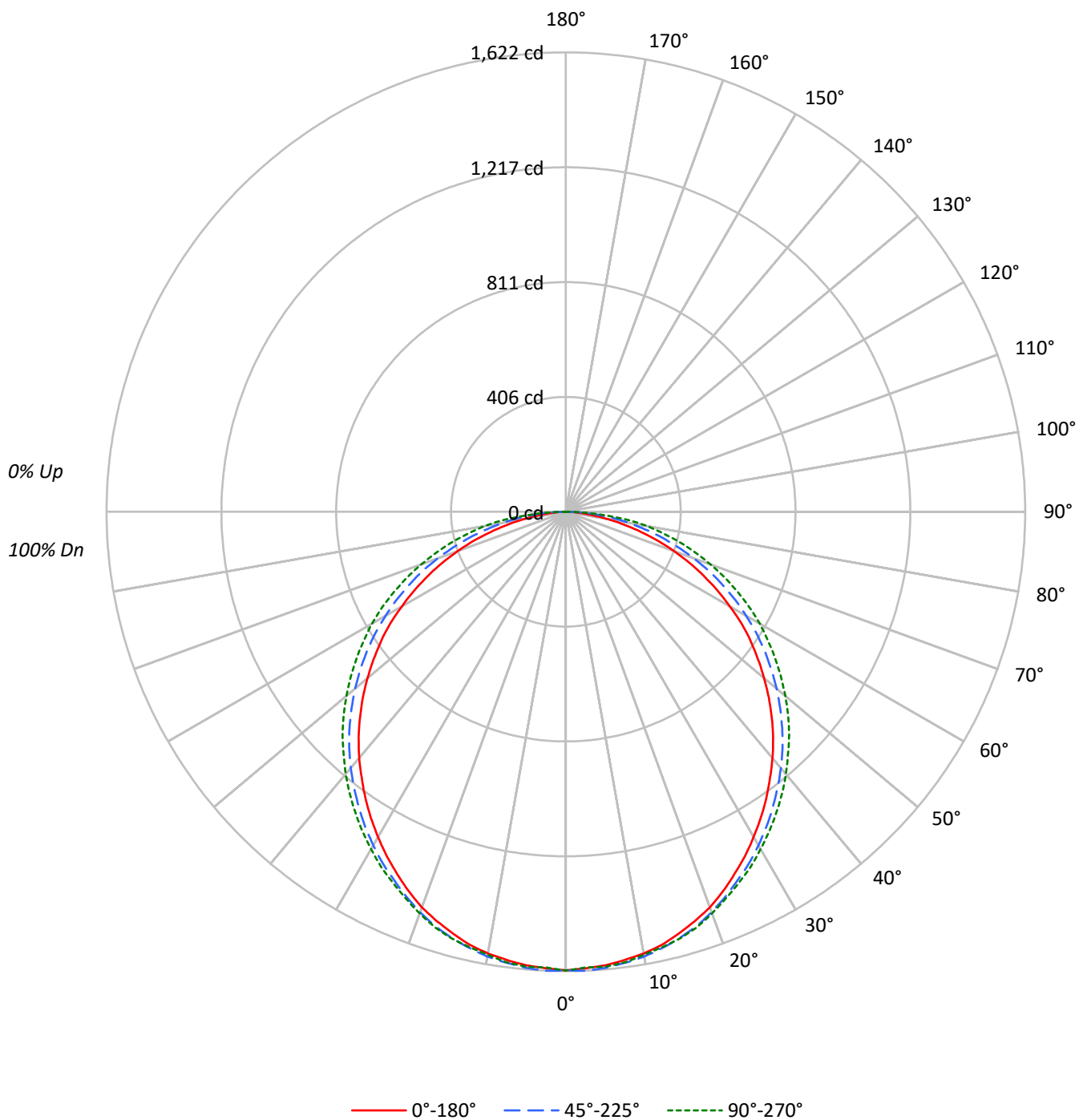
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4726.0 lumens
Efficiency: N/A
Efficacy: 146.8 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°	2480	2480	2480
5°	2471	2485	2479
10°	2463	2480	2470
15°	2444	2470	2473
20°	2423	2452	2460
25°	2384	2426	2443
30°	2346	2406	2432
35°	2308	2383	2424
40°	2270	2362	2418
45°	2227	2340	2416
50°	2178	2314	2410
55°	2129	2289	2409
60°	2050	2255	2424
65°	1954	2211	2425
70°	1823	2150	2432
75°	1622	2072	2474
80°	1332	1985	2568
85°	879	1863	2320

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2630 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.2	3.2
10°-20°	438.5	9.3
20°-30°	660.9	14.0
30°-40°	795.9	16.8
40°-50°	831.5	17.6
50°-60°	763.9	16.2
60°-70°	601.6	12.7
70°-80°	368.8	7.8
80°-90°	111.8	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°	1252.6	26.5
0°-40°	2048.4	43.3
0°-60°	3643.8	77.1
0°-90°	4726.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4726.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1619	1619	1619	1619	1619	
5°	1607	1610	1616	1614	1612	153
15°	1541	1547	1557	1563	1559	435
25°	1410	1419	1435	1450	1445	650
35°	1234	1250	1274	1297	1296	772
45°	1028	1050	1080	1110	1115	793
55°	797	820	857	894	902	711
65°	539	567	610	651	669	533
75°	274	306	350	392	418	291
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°	1619.4	1619.4	1619.4	1619.4	1619.4
2.5°	1613.4	1617.4	1622.4	1614.4	1610.4
5°	1607.4	1610.4	1616.4	1614.4	1612.4
7.5°	1596.4	1598.4	1606.4	1606.4	1604.4
10°	1583.4	1587.4	1594.4	1593.4	1588.4
12.5°	1566.4	1569.4	1577.4	1577.4	1574.4
15°	1541.4	1547.4	1557.4	1563.4	1559.4
17.5°	1515.4	1521.4	1534.4	1540.4	1538.4
20°	1486.4	1491.4	1504.4	1513.4	1509.4
22.5°	1450.4	1456.4	1471.4	1481.4	1477.4
25°	1410.4	1419.4	1435.4	1450.4	1445.4
27.5°	1370.3	1380.4	1400.4	1415.4	1413.4
30°	1326.3	1339.3	1360.3	1379.4	1375.3
32.5°	1281.3	1296.3	1318.3	1338.3	1337.3
35°	1234.3	1250.3	1274.3	1297.3	1296.3
37.5°	1184.3	1203.3	1228.3	1253.3	1254.3
40°	1135.3	1153.3	1181.3	1208.3	1209.3
42.5°	1083.3	1102.3	1132.3	1160.3	1161.3
45°	1028.3	1050.3	1080.3	1110.3	1115.3
47.5°	972.2	995.3	1026.3	1058.3	1064.3
50°	914.2	938.2	971.2	1005.3	1011.3
52.5°	855.2	880.2	914.2	948.2	957.2
55°	797.2	820.2	857.2	894.2	902.2
57.5°	736.2	757.2	797.2	836.2	846.2
60°	669.2	695.2	736.2	775.2	791.2
62.5°	604.2	632.2	674.2	713.2	731.2
65°	539.1	567.1	610.2	651.2	669.2
67.5°	473.1	502.1	548.1	587.1	607.2
70°	407.1	436.1	480.1	522.1	543.1
72.5°	341.1	372.1	415.1	458.1	479.1
75°	274.1	306.1	350.1	392.1	418.1
77.5°	211.1	242.1	286.1	329.1	351.1
80°	151.0	182.0	225.1	268.1	291.1
82.5°	96.0	125.0	167.0	203.1	224.1
85°	50.0	74.0	106.0	118.0	132.0
87.5°	15.0	29.0	41.0	46.0	57.0
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	14.67	16.33	15.03	16.65	16.96	15.42	17.08	15.78	17.39	17.71
	3H	16.43	17.94	16.81	18.27	18.63	17.51	19.02	17.89	19.34	19.70
	4H	17.06	18.48	17.45	18.83	19.20	18.40	19.82	18.79	20.17	20.54
	6H	17.47	18.79	17.88	19.15	19.54	19.16	20.48	19.57	20.85	21.24
	8H	17.58	18.84	18.00	19.23	19.62	19.47	20.74	19.90	21.13	21.52
	12H	17.63	18.84	18.06	19.22	19.65	19.69	20.90	20.12	21.28	21.71
4H	2H	15.44	16.86	15.84	17.21	17.58	16.02	17.44	16.42	17.79	18.16
	3H	17.43	18.63	17.84	19.03	19.43	18.35	19.55	18.76	19.94	20.34
	4H	18.19	19.27	18.62	19.69	20.12	19.38	20.47	19.81	20.88	21.32
	6H	18.72	19.68	19.18	20.12	20.57	20.31	21.27	20.77	21.71	22.16
	8H	18.87	19.76	19.33	20.20	20.67	20.70	21.59	21.16	22.03	22.49
	12H	18.96	19.76	19.44	20.23	20.70	20.97	21.78	21.45	22.25	22.72
8H	4H	18.64	19.53	19.10	19.97	20.44	19.68	20.57	20.14	21.02	21.48
	6H	19.32	20.06	19.81	20.55	21.02	20.77	21.51	21.26	22.00	22.47
	8H	19.54	20.21	20.04	20.71	21.20	21.25	21.92	21.76	22.43	22.91
	12H	19.68	20.28	20.19	20.77	21.32	21.63	22.22	22.13	22.71	23.27
12H	4H	18.72	19.53	19.20	20.00	20.47	19.71	20.51	20.19	20.99	21.46
	6H	19.44	20.11	19.95	20.62	21.10	20.82	21.49	21.33	21.99	22.48
	8H	19.74	20.33	20.24	20.82	21.38	21.37	21.97	21.88	22.45	23.01