

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: P1589791

Luminaire Tested: 24CZSP-SB-47-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589791
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-L950
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

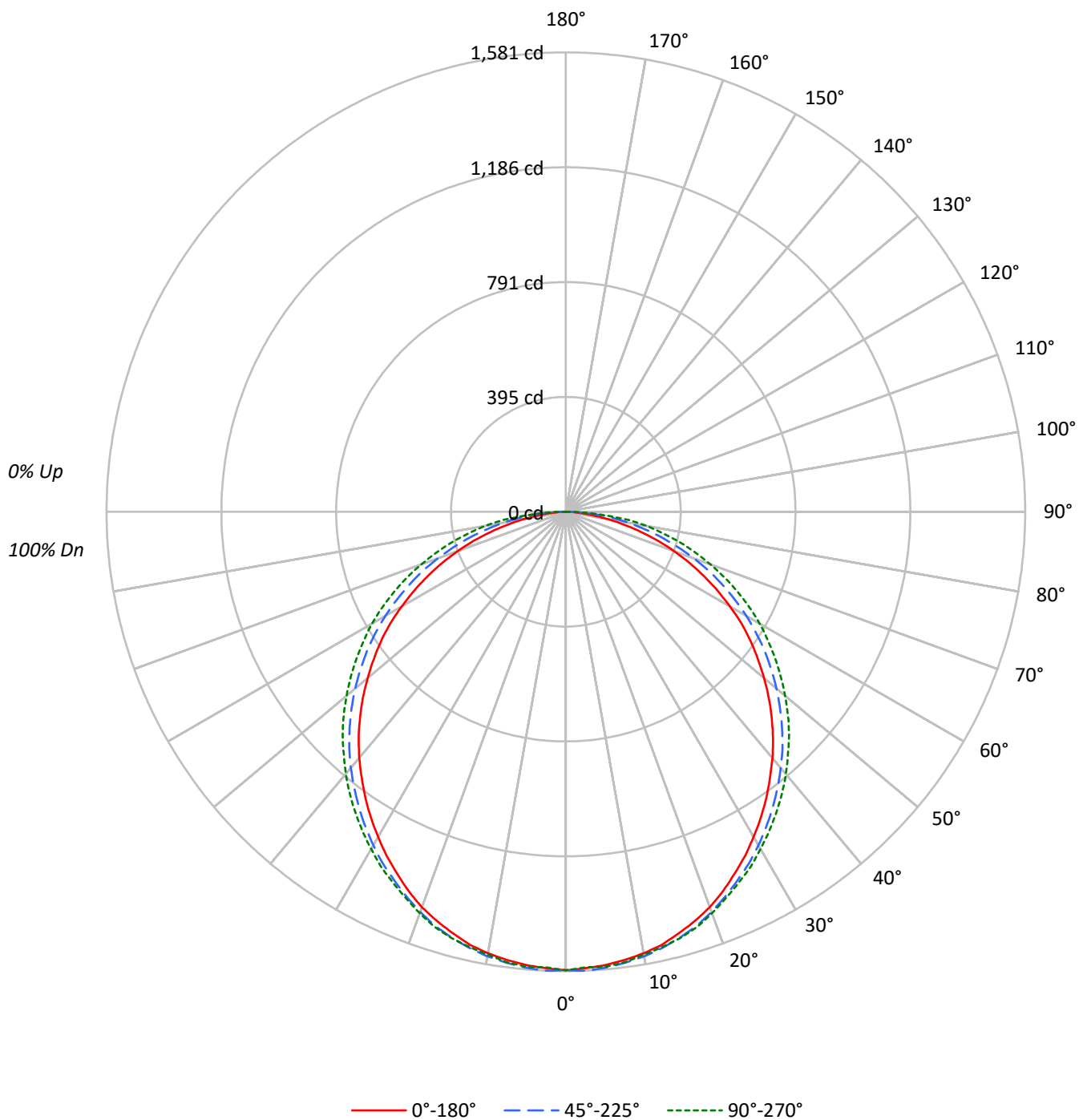
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4605.0 lumens
Efficiency: N/A
Efficacy: 143.0 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°	2417	2417	2417
5°	2408	2422	2416
10°	2400	2416	2407
15°	2381	2406	2409
20°	2361	2389	2397
25°	2322	2364	2380
30°	2286	2344	2370
35°	2249	2322	2362
40°	2212	2302	2356
45°	2170	2280	2354
50°	2123	2255	2348
55°	2074	2231	2347
60°	1997	2197	2361
65°	1904	2155	2363
70°	1776	2095	2370
75°	1581	2019	2411
80°	1298	1934	2501
85°	856	1815	2262

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2562 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.3	3.2
10°-20°	427.2	9.3
20°-30°	644.0	14.0
30°-40°	775.5	16.8
40°-50°	810.2	17.6
50°-60°	744.3	16.2
60°-70°	586.1	12.7
70°-80°	359.4	7.8
80°-90°	109.0	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°	1220.5	26.5
0°-40°	1996.0	43.3
0°-60°	3550.5	77.1
0°-90°	4605.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4605.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1578	1578	1578	1578	1578	
5°	1566	1569	1575	1573	1571	149
15°	1502	1508	1518	1523	1520	424
25°	1374	1383	1399	1413	1408	634
35°	1203	1218	1242	1264	1263	752
45°	1002	1023	1053	1082	1087	773
55°	777	799	835	871	879	693
65°	525	553	594	634	652	519
75°	267	298	341	382	407	284
85°	49	72	103	115	129	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1577.9	1577.9	1577.9	1577.9	1577.9
2.5°	1572.1	1576.0	1580.9	1573.1	1569.2
5°	1566.3	1569.2	1575.0	1573.1	1571.1
7.5°	1555.5	1557.5	1565.3	1565.3	1563.3
10°	1542.9	1546.8	1553.6	1552.6	1547.7
12.5°	1526.3	1529.2	1537.0	1537.0	1534.1
15°	1501.9	1507.8	1517.5	1523.4	1519.5
17.5°	1476.6	1482.4	1495.1	1501.0	1499.0
20°	1448.3	1453.2	1465.9	1474.6	1470.7
22.5°	1413.2	1419.1	1433.7	1443.4	1439.5
25°	1374.2	1383.0	1398.6	1413.2	1408.4
27.5°	1335.3	1345.0	1364.5	1379.1	1377.2
30°	1292.4	1305.0	1325.5	1344.0	1340.1
32.5°	1248.5	1263.1	1284.6	1304.1	1303.1
35°	1202.7	1218.3	1241.7	1264.1	1263.1
37.5°	1154.0	1172.5	1196.9	1221.2	1222.2
40°	1106.2	1123.8	1151.1	1177.4	1178.3
42.5°	1055.5	1074.1	1103.3	1130.6	1131.6
45°	1001.9	1023.4	1052.6	1081.9	1086.7
47.5°	947.4	969.8	1000.0	1031.2	1037.0
50°	890.8	914.2	946.4	979.5	985.4
52.5°	833.3	857.7	890.8	924.0	932.7
55°	776.8	799.2	835.3	871.3	879.1
57.5°	717.3	737.8	776.8	814.8	824.5
60°	652.0	677.4	717.3	755.3	770.9
62.5°	588.7	616.0	656.9	694.9	712.5
65°	525.3	552.6	594.5	634.5	652.0
67.5°	461.0	489.3	534.1	572.1	591.6
70°	396.7	424.9	467.8	508.8	529.2
72.5°	332.4	362.6	404.5	446.4	466.9
75°	267.1	298.2	341.1	382.1	407.4
77.5°	205.6	235.9	278.7	320.7	342.1
80°	147.2	177.4	219.3	261.2	283.6
82.5°	93.6	121.8	162.8	197.9	218.3
85°	48.7	72.1	103.3	115.0	128.7
87.5°	14.6	28.3	40.0	44.8	55.6
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	14.58	16.24	14.94	16.56	16.87	15.33	16.99	15.69	17.30	17.62
	3H	16.34	17.85	16.72	18.18	18.54	17.42	18.93	17.80	19.25	19.61
	4H	16.97	18.39	17.36	18.74	19.11	18.31	19.73	18.70	20.08	20.45
	6H	17.38	18.70	17.79	19.06	19.45	19.07	20.39	19.48	20.76	21.15
	8H	17.49	18.75	17.91	19.14	19.53	19.38	20.65	19.81	21.04	21.43
	12H	17.54	18.75	17.97	19.13	19.56	19.60	20.81	20.03	21.19	21.62
4H	2H	15.35	16.77	15.75	17.12	17.49	15.93	17.35	16.33	17.70	18.07
	3H	17.34	18.54	17.75	18.94	19.34	18.26	19.46	18.67	19.85	20.25
	4H	18.10	19.18	18.53	19.60	20.03	19.29	20.38	19.72	20.79	21.23
	6H	18.63	19.59	19.09	20.03	20.48	20.22	21.18	20.68	21.62	22.07
	8H	18.78	19.67	19.24	20.11	20.58	20.61	21.50	21.07	21.94	22.40
	12H	18.87	19.67	19.35	20.14	20.61	20.88	21.69	21.36	22.16	22.63
8H	4H	18.55	19.44	19.01	19.88	20.35	19.59	20.48	20.05	20.93	21.39
	6H	19.23	19.97	19.72	20.46	20.93	20.68	21.42	21.17	21.91	22.38
	8H	19.45	20.12	19.95	20.62	21.11	21.16	21.83	21.67	22.34	22.82
	12H	19.59	20.19	20.10	20.68	21.23	21.54	22.13	22.04	22.62	23.18
12H	4H	18.63	19.44	19.11	19.91	20.38	19.62	20.42	20.10	20.90	21.37
	6H	19.35	20.02	19.86	20.53	21.01	20.73	21.40	21.24	21.90	22.39
	8H	19.65	20.24	20.15	20.73	21.29	21.28	21.87	21.79	22.36	22.92