

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: P1588292

Luminaire Tested: 24CZSP-47-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-47-L830-S
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

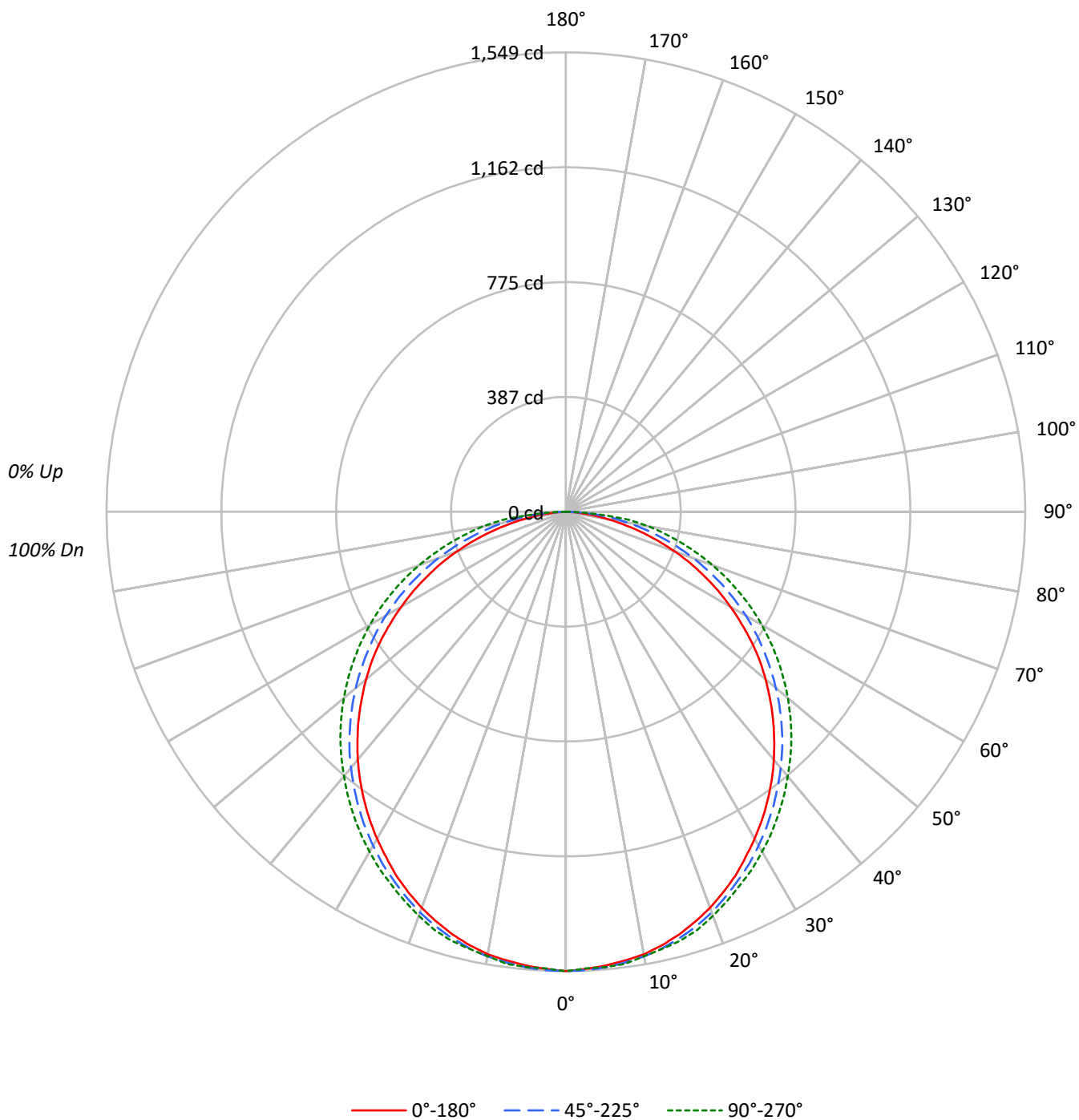
Lumens per Lamp: N/A
Luminaire Lumens: 4522.0 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
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	69		
3	89	79	70	64	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°	2372	2372	2372
5°	2362	2371	2369
10°	2357	2367	2366
15°	2340	2359	2373
20°	2316	2344	2363
25°	2287	2319	2348
30°	2252	2299	2341
35°	2219	2276	2334
40°	2182	2254	2327
45°	2141	2231	2330
50°	2095	2204	2329
55°	2040	2173	2332
60°	1964	2149	2337
65°	1874	2107	2344
70°	1746	2048	2355
75°	1556	1967	2378
80°	1287	1873	2494
85°	836	1691	2179

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2573 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.5	3.2
10°-20°	419.5	9.3
20°-30°	632.6	14.0
30°-40°	761.9	16.8
40°-50°	795.8	17.6
50°-60°	730.8	16.2
60°-70°	575.6	12.7
70°-80°	353.1	7.8
80°-90°	106.3	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°	1198.5	26.5
0°-40°	1960.5	43.4
0°-60°	3487.0	77.1
0°-90°	4522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4522.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1549	1549	1549	1549	1549	
5°	1536	1538	1542	1547	1541	146
15°	1476	1478	1487	1496	1496	416
25°	1353	1356	1372	1389	1389	623
35°	1187	1193	1218	1242	1248	742
45°	988	999	1030	1066	1076	762
55°	764	778	814	859	873	682
65°	517	535	582	630	647	511
75°	263	284	332	385	402	279
85°	48	66	96	122	124	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1548.9	1548.9	1548.9	1548.9	1548.9
2.5°	1543.0	1545.9	1546.9	1547.9	1541.0
5°	1536.0	1538.0	1542.0	1546.9	1541.0
7.5°	1526.1	1528.1	1533.0	1540.0	1537.0
10°	1515.2	1516.2	1522.1	1527.1	1521.1
12.5°	1497.3	1500.3	1507.2	1511.2	1509.2
15°	1475.5	1478.5	1487.4	1496.3	1496.3
17.5°	1449.7	1453.6	1464.6	1476.5	1477.5
20°	1420.9	1423.9	1437.8	1449.7	1449.7
22.5°	1388.2	1392.1	1406.0	1418.9	1420.9
25°	1353.4	1356.4	1372.3	1389.2	1389.2
27.5°	1312.7	1318.7	1338.5	1355.4	1359.4
30°	1273.1	1278.0	1299.9	1320.7	1323.7
32.5°	1231.4	1237.3	1260.2	1283.0	1287.9
35°	1186.7	1192.7	1217.5	1242.3	1248.3
37.5°	1140.1	1147.0	1172.8	1201.6	1207.6
40°	1091.5	1099.4	1127.2	1158.0	1163.9
42.5°	1039.9	1050.8	1080.6	1112.3	1121.2
45°	988.3	999.2	1030.0	1065.7	1075.6
47.5°	933.7	946.6	978.4	1016.1	1027.0
50°	879.1	892.0	924.8	965.5	977.4
52.5°	823.6	836.5	870.2	912.9	925.8
55°	764.0	777.9	813.6	859.3	873.2
57.5°	702.5	720.4	758.1	804.7	818.6
60°	641.0	658.9	701.5	747.2	763.0
62.5°	580.5	597.3	641.0	689.6	706.5
65°	517.0	534.8	581.5	630.1	646.9
67.5°	454.5	472.3	518.9	569.6	587.4
70°	390.0	409.8	457.4	508.0	525.9
72.5°	325.5	346.3	394.9	446.5	463.4
75°	262.9	283.8	332.4	385.0	401.9
77.5°	201.4	224.2	271.9	325.5	341.3
80°	145.9	167.7	212.3	264.9	282.8
82.5°	93.3	112.1	156.8	206.4	219.3
85°	47.6	65.5	96.2	122.0	124.0
87.5°	14.9	20.8	31.8	47.6	48.6
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	14.48	16.14	14.84	16.46	16.77	15.31	16.97	15.67	17.29	17.60
	3H	16.24	17.74	16.61	18.07	18.43	17.43	18.93	17.80	19.26	19.62
	4H	16.85	18.28	17.25	18.62	19.00	18.32	19.74	18.71	20.08	20.46
	6H	17.26	18.59	17.68	18.95	19.34	19.10	20.42	19.51	20.78	21.17
	8H	17.37	18.63	17.80	19.02	19.42	19.42	20.68	19.84	21.07	21.47
	12H	17.42	18.63	17.85	19.02	19.44	19.63	20.84	20.06	21.22	21.65
4H	2H	15.25	16.67	15.65	17.02	17.40	15.90	17.32	16.30	17.67	18.04
	3H	17.23	18.43	17.64	18.82	19.22	18.25	19.45	18.66	19.85	20.25
	4H	17.97	19.05	18.40	19.46	19.90	19.30	20.39	19.74	20.80	21.24
	6H	18.49	19.45	18.95	19.89	20.34	20.26	21.21	20.71	21.65	22.10
	8H	18.64	19.53	19.10	19.97	20.44	20.65	21.55	21.11	21.99	22.45
	12H	18.72	19.53	19.20	20.00	20.47	20.93	21.73	21.41	22.21	22.68
8H	4H	18.42	19.32	18.88	19.76	20.22	19.59	20.49	20.05	20.93	21.39
	6H	19.09	19.83	19.58	20.32	20.79	20.71	21.45	21.20	21.94	22.41
	8H	19.30	19.96	19.80	20.47	20.95	21.22	21.89	21.72	22.39	22.88
	12H	19.44	20.03	19.94	20.52	21.08	21.60	22.19	22.11	22.68	23.24
12H	4H	18.51	19.32	18.99	19.79	20.26	19.62	20.42	20.10	20.90	21.36
	6H	19.22	19.89	19.72	20.39	20.88	20.75	21.42	21.26	21.93	22.41
	8H	19.50	20.09	20.00	20.58	21.14	21.33	21.92	21.84	22.41	22.97