

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: P1588634

Luminaire Tested: 24CZSP-A-47-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588634
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-A-47-L835-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

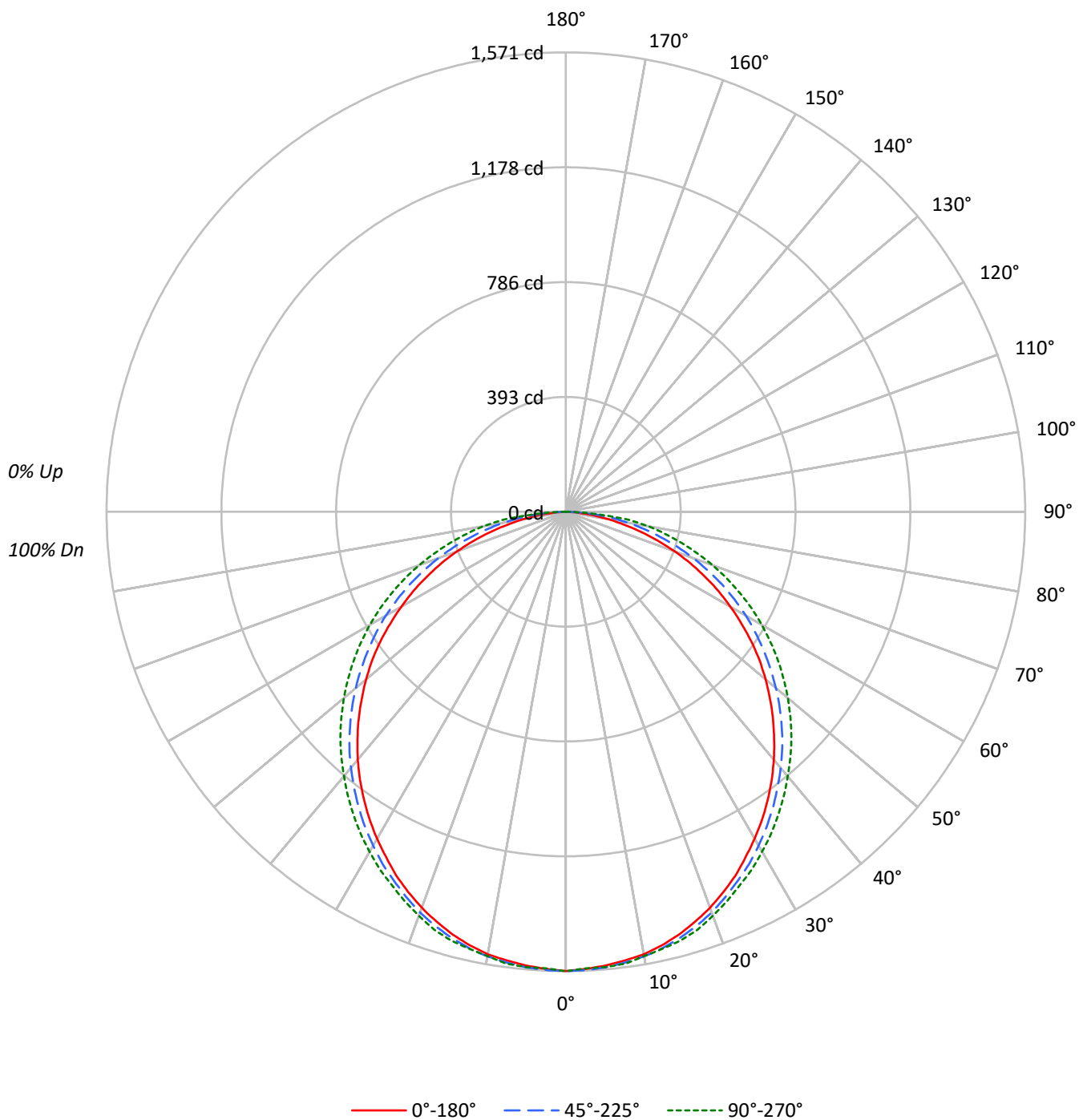
Lumens per Lamp: N/A
Luminaire Lumens: 4586.0 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			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	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°	2406	2406	2406
5°	2395	2404	2403
10°	2390	2401	2399
15°	2373	2392	2406
20°	2349	2377	2396
25°	2320	2352	2381
30°	2283	2331	2374
35°	2250	2309	2367
40°	2213	2286	2360
45°	2171	2262	2363
50°	2124	2235	2362
55°	2069	2204	2365
60°	1991	2180	2370
65°	1900	2137	2378
70°	1771	2077	2388
75°	1578	1995	2411
80°	1305	1899	2530
85°	849	1715	2211

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2610 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	3.2
10°-20°	425.4	9.3
20°-30°	641.5	14.0
30°-40°	772.7	16.8
40°-50°	807.0	17.6
50°-60°	741.1	16.2
60°-70°	583.7	12.7
70°-80°	358.1	7.8
80°-90°	107.8	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	26.5
0°-40°	1988.2	43.4
0°-60°	3536.4	77.1
0°-90°	4586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4586.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1571	1571	1571	1571	1571	
5°	1558	1560	1564	1569	1563	148
15°	1496	1499	1508	1518	1518	422
25°	1373	1376	1392	1409	1409	632
35°	1204	1210	1235	1260	1266	753
45°	1002	1013	1044	1081	1091	773
55°	775	789	825	872	886	692
65°	524	542	590	639	656	519
75°	267	288	337	390	408	283
85°	48	66	98	124	126	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1570.8	1570.8	1570.8	1570.8	1570.8
2.5°	1564.8	1567.8	1568.8	1569.8	1562.8
5°	1557.7	1559.8	1563.8	1568.8	1562.8
7.5°	1547.7	1549.7	1554.7	1561.8	1558.8
10°	1536.6	1537.6	1543.7	1548.7	1542.7
12.5°	1518.5	1521.5	1528.6	1532.6	1530.6
15°	1496.4	1499.4	1508.4	1517.5	1517.5
17.5°	1470.2	1474.2	1485.3	1497.4	1498.4
20°	1441.0	1444.0	1458.1	1470.2	1470.2
22.5°	1407.8	1411.8	1425.9	1439.0	1441.0
25°	1372.6	1375.6	1391.7	1408.8	1408.8
27.5°	1331.3	1337.4	1357.5	1374.6	1378.6
30°	1291.1	1296.1	1318.2	1339.4	1342.4
32.5°	1248.8	1254.9	1278.0	1301.1	1306.2
35°	1203.5	1209.6	1234.7	1259.9	1265.9
37.5°	1156.2	1163.3	1189.4	1218.6	1224.7
40°	1106.9	1115.0	1143.2	1174.3	1180.4
42.5°	1054.6	1065.7	1095.9	1128.1	1137.1
45°	1002.3	1013.3	1044.5	1080.8	1090.8
47.5°	946.9	960.0	992.2	1030.4	1041.5
50°	891.6	904.7	937.9	979.1	991.2
52.5°	835.2	848.3	882.5	925.8	938.9
55°	774.8	788.9	825.2	871.5	885.5
57.5°	712.5	730.6	768.8	816.1	830.2
60°	650.1	668.2	711.5	757.7	773.8
62.5°	588.7	605.8	650.1	699.4	716.5
65°	524.3	542.4	589.7	639.0	656.1
67.5°	460.9	479.0	526.3	577.6	595.7
70°	395.5	415.6	463.9	515.2	533.3
72.5°	330.1	351.2	400.5	452.8	469.9
75°	266.7	287.8	337.1	390.4	407.5
77.5°	204.3	227.4	275.7	330.1	346.2
80°	147.9	170.1	215.3	268.7	286.8
82.5°	94.6	113.7	159.0	209.3	222.4
85°	48.3	66.4	97.6	123.8	125.8
87.5°	15.1	21.1	32.2	48.3	49.3
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	14.53	16.19	14.89	16.51	16.82	15.36	17.02	15.72	17.33	17.65
	3H	16.28	17.79	16.66	18.12	18.48	17.47	18.98	17.85	19.31	19.67
	4H	16.90	18.33	17.30	18.67	19.05	18.36	19.79	18.76	20.13	20.51
	6H	17.31	18.63	17.72	19.00	19.39	19.15	20.47	19.56	20.83	21.22
	8H	17.42	18.68	17.84	19.07	19.47	19.46	20.73	19.89	21.12	21.51
	12H	17.47	18.68	17.90	19.06	19.49	19.68	20.89	20.11	21.27	21.70
4H	2H	15.30	16.72	15.70	17.07	17.44	15.95	17.37	16.34	17.72	18.09
	3H	17.28	18.48	17.69	18.87	19.27	18.30	19.50	18.71	19.90	20.30
	4H	18.01	19.10	18.44	19.51	19.95	19.35	20.44	19.78	20.85	21.29
	6H	18.54	19.50	19.00	19.93	20.39	20.31	21.26	20.76	21.70	22.15
	8H	18.69	19.58	19.15	20.02	20.49	20.70	21.60	21.16	22.04	22.50
	12H	18.77	19.58	19.25	20.05	20.52	20.98	21.78	21.46	22.26	22.73
8H	4H	18.47	19.37	18.93	19.81	20.27	19.64	20.53	20.10	20.98	21.44
	6H	19.13	19.88	19.63	20.37	20.84	20.75	21.50	21.25	21.99	22.46
	8H	19.35	20.01	19.85	20.52	21.00	21.27	21.93	21.77	22.44	22.92
	12H	19.48	20.08	19.99	20.57	21.12	21.65	22.24	22.16	22.73	23.29
12H	4H	18.56	19.37	19.04	19.84	20.31	19.67	20.47	20.15	20.94	21.41
	6H	19.27	19.94	19.77	20.44	20.93	20.80	21.47	21.31	21.98	22.46
	8H	19.54	20.14	20.05	20.63	21.18	21.38	21.97	21.88	22.46	23.02