

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: P1588683

Luminaire Tested: 24CZSP-A-52-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2604-747-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-52-L930
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 4500 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

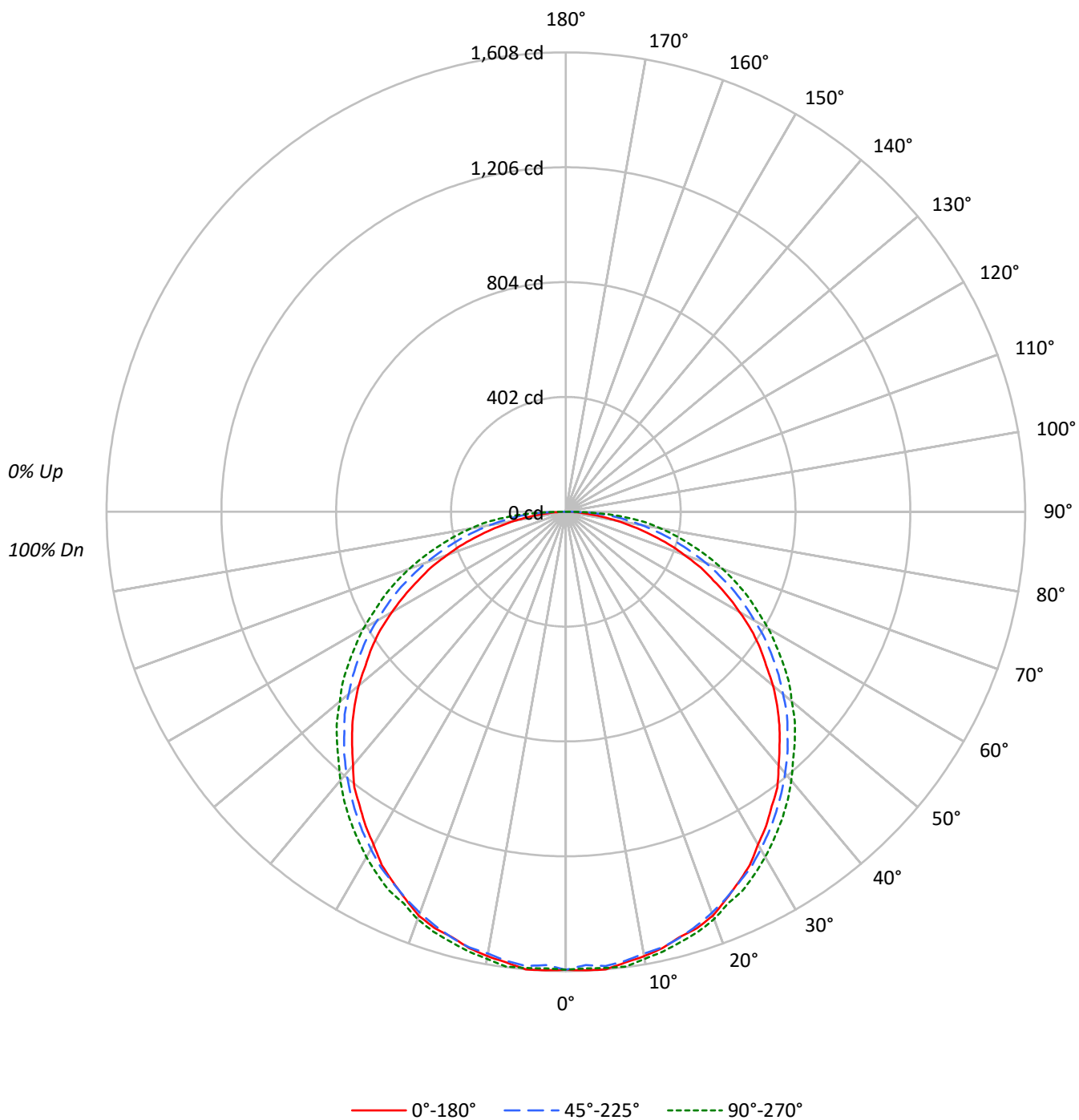
Lumens per Lamp: N/A
Luminaire Lumens: 4893.0 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 36.7
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	98	94	105	100	96	92	96	93	89		92	89	87		89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	51		62	56	51		60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2455	2455	2455
5°	2472	2454	2465
10°	2457	2442	2471
15°	2443	2447	2471
20°	2452	2435	2473
25°	2418	2422	2473
30°	2379	2412	2468
35°	2351	2399	2463
40°	2317	2387	2455
45°	2290	2376	2455
50°	2256	2365	2460
55°	2216	2356	2482
60°	2154	2340	2509
65°	2068	2340	2548
70°	1973	2325	2608
75°	1817	2330	2704
80°	1592	2377	2977
85°	1214	2740	3562

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 3950 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.2	3.1
10°-20°	437.5	8.9
20°-30°	664.6	13.6
30°-40°	805.1	16.5
40°-50°	847.0	17.3
50°-60°	787.6	16.1
60°-70°	634.1	13.0
70°-80°	410.8	8.4
80°-90°	154.0	3.1
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°	1254.4	25.6
0°-40°	2059.5	42.1
0°-60°	3694.0	75.5
0°-90°	4893.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4893.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1603	1603	1603	1603	1603	
5°	1608	1605	1596	1605	1603	152
15°	1541	1547	1543	1562	1558	437
25°	1431	1430	1433	1458	1464	660
35°	1257	1267	1283	1305	1317	788
45°	1057	1071	1097	1120	1133	815
55°	830	851	882	918	929	740
65°	571	596	646	684	703	567
75°	307	338	394	439	457	326
85°	69	102	156	194	203	85
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1603.1	1603.1	1603.1	1603.1	1603.1
2.5°	1606.6	1606.6	1587.8	1607.7	1599.5
5°	1607.7	1605.4	1596.0	1605.4	1603.1
7.5°	1591.3	1593.7	1585.5	1597.2	1605.4
10°	1579.6	1582.0	1570.2	1589.0	1589.0
12.5°	1564.4	1566.7	1562.0	1579.6	1576.1
15°	1541.0	1546.8	1543.3	1562.0	1558.5
17.5°	1528.1	1523.4	1519.9	1533.9	1541.0
20°	1504.6	1494.1	1494.1	1512.8	1517.5
22.5°	1467.1	1463.6	1464.8	1488.2	1483.5
25°	1430.8	1429.6	1433.1	1457.8	1463.6
27.5°	1394.5	1392.1	1402.7	1426.1	1430.8
30°	1345.3	1349.9	1364.0	1389.8	1395.6
32.5°	1304.2	1312.4	1325.3	1349.9	1357.0
35°	1257.4	1266.7	1283.1	1305.4	1317.1
37.5°	1216.4	1222.2	1239.8	1260.9	1274.9
40°	1158.9	1174.2	1194.1	1224.6	1228.1
42.5°	1107.4	1122.6	1148.4	1181.2	1177.7
45°	1057.0	1071.0	1096.8	1120.3	1133.2
47.5°	1003.1	1016.0	1050.0	1078.1	1087.5
50°	946.8	963.2	992.5	1021.8	1032.4
52.5°	883.6	901.1	938.6	970.3	985.5
55°	829.7	850.7	882.4	917.5	929.3
57.5°	769.9	787.5	826.1	861.3	873.0
60°	703.1	724.2	764.0	801.5	819.1
62.5°	638.6	662.1	704.3	742.9	757.0
65°	570.7	596.5	645.7	684.3	703.1
67.5°	512.1	533.2	581.2	624.6	644.5
70°	440.6	468.7	519.1	567.2	582.4
72.5°	377.3	401.9	454.7	502.7	521.5
75°	307.0	337.5	393.7	439.4	457.0
77.5°	242.6	274.2	330.5	378.5	398.4
80°	180.5	210.9	269.5	318.7	337.5
82.5°	121.9	152.3	210.9	259.0	280.1
85°	69.1	101.9	155.9	194.5	202.7
87.5°	30.5	58.6	87.9	105.5	112.5
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	14.81	16.49	15.17	16.80	17.11	15.48	17.16	15.84	17.48	17.79
	3H	16.66	18.19	17.04	18.51	18.87	17.70	19.23	18.07	19.55	19.91
	4H	17.35	18.79	17.74	19.14	19.51	18.66	20.11	19.06	20.45	20.83
	6H	17.84	19.18	18.25	19.54	19.93	19.55	20.90	19.96	21.26	21.65
	8H	17.99	19.27	18.41	19.66	20.06	19.96	21.24	20.38	21.63	22.03
	12H	18.07	19.31	18.50	19.69	20.12	20.32	21.55	20.74	21.93	22.36
4H	2H	15.60	17.04	16.00	17.39	17.76	16.12	17.56	16.52	17.91	18.28
	3H	17.69	18.91	18.09	19.30	19.70	18.58	19.80	18.99	20.20	20.59
	4H	18.51	19.62	18.94	20.03	20.46	19.71	20.82	20.14	21.23	21.66
	6H	19.13	20.11	19.58	20.55	21.00	20.78	21.75	21.23	22.19	22.64
	8H	19.33	20.24	19.79	20.68	21.15	21.27	22.18	21.73	22.62	23.09
	12H	19.46	20.29	19.94	20.76	21.23	21.72	22.55	22.20	23.02	23.49
8H	4H	19.01	19.93	19.47	20.37	20.83	20.05	20.96	20.51	21.41	21.87
	6H	19.80	20.57	20.29	21.05	21.53	21.30	22.07	21.79	22.55	23.03
	8H	20.08	20.77	20.59	21.28	21.76	21.92	22.61	22.43	23.12	23.60
	12H	20.30	20.91	20.80	21.40	21.96	22.53	23.15	23.04	23.63	24.19
12H	4H	19.12	19.95	19.60	20.42	20.89	20.09	20.91	20.57	21.39	21.86
	6H	19.97	20.66	20.47	21.16	21.65	21.37	22.06	21.88	22.57	23.05
	8H	20.34	20.95	20.84	21.44	21.99	22.08	22.69	22.58	23.18	23.74