

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: P1588403

Luminaire Tested: 24CZSP-57HE-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2603-711-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-57HE-L930
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 5500 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

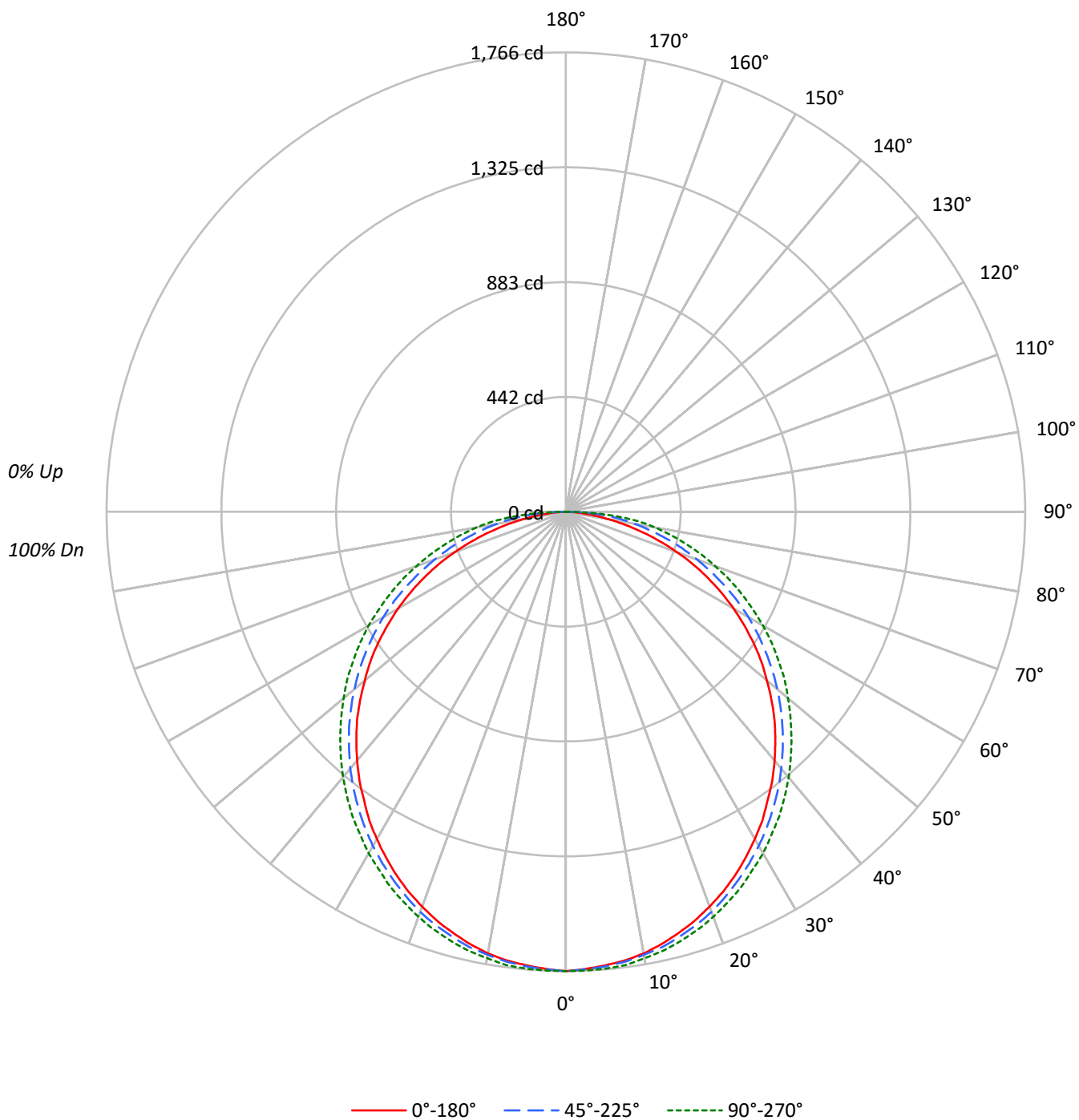
Lumens per Lamp: N/A
Luminaire Lumens: 5238.9 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 39.4
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	101	97	93	96	93	90		92	90	87		89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73		81	76	72		77	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	62	52	46	73	60	52	45	58	51	45		56	50	44		54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2705	2705	2705
5°	2691	2698	2711
10°	2681	2690	2711
15°	2658	2681	2708
20°	2633	2668	2701
25°	2605	2644	2693
30°	2570	2623	2682
35°	2529	2600	2673
40°	2496	2577	2664
45°	2459	2553	2657
50°	2405	2529	2657
55°	2354	2505	2664
60°	2283	2483	2683
65°	2186	2443	2701
70°	2045	2403	2733
75°	1819	2368	2823
80°	1496	2379	3069
85°	1019	2650	3388

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 3388 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.1	3.2
10°-20°	478.6	9.1
20°-30°	723.7	13.8
30°-40°	873.2	16.7
40°-50°	913.1	17.4
50°-60°	842.4	16.1
60°-70°	669.8	12.8
70°-80°	422.8	8.1
80°-90°	148.2	2.8
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°	1369.4	26.1
0°-40°	2242.6	42.8
0°-60°	3998.1	76.3
0°-90°	5238.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5238.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1766	1766	1766	1766	1766	
5°	1750	1763	1754	1759	1763	166
15°	1676	1695	1691	1704	1708	473
25°	1541	1564	1564	1585	1594	710
35°	1353	1382	1390	1418	1430	848
45°	1135	1160	1179	1214	1227	874
55°	882	908	938	983	998	787
65°	603	631	674	731	745	596
75°	307	342	400	460	477	326
85°	58	96	151	187	193	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1766.1	1766.1	1766.1	1766.1	1766.1
2.5°	1758.8	1770.4	1760.3	1766.1	1764.6
5°	1750.1	1763.2	1754.5	1758.8	1763.2
7.5°	1740.0	1754.5	1744.3	1751.6	1757.4
10°	1724.0	1738.5	1729.8	1738.5	1742.9
12.5°	1702.3	1719.7	1713.9	1724.0	1728.4
15°	1676.2	1695.0	1690.7	1703.7	1708.1
17.5°	1648.6	1668.9	1666.0	1680.5	1684.9
20°	1615.3	1638.5	1637.0	1651.5	1657.3
22.5°	1580.5	1603.7	1602.2	1618.2	1625.4
25°	1541.3	1564.5	1564.5	1584.8	1593.5
27.5°	1497.8	1523.9	1525.4	1545.7	1552.9
30°	1452.9	1479.0	1483.3	1505.1	1516.7
32.5°	1406.5	1431.1	1438.4	1463.0	1471.7
35°	1352.8	1381.8	1390.5	1418.1	1429.7
37.5°	1303.5	1329.6	1341.2	1370.2	1381.8
40°	1248.4	1276.0	1289.0	1320.9	1332.5
42.5°	1191.9	1219.4	1233.9	1268.7	1280.3
45°	1135.3	1160.0	1178.8	1213.6	1226.7
47.5°	1073.0	1100.5	1120.8	1158.5	1171.6
50°	1009.2	1038.2	1061.4	1102.0	1115.0
52.5°	948.3	974.4	1000.5	1045.4	1059.9
55°	881.6	907.7	938.1	983.1	997.6
57.5°	813.4	839.5	874.3	922.2	938.1
60°	745.3	771.4	810.5	859.8	875.8
62.5°	674.2	700.3	743.8	794.6	809.1
65°	603.2	630.7	674.2	730.8	745.3
67.5°	530.7	558.2	604.6	664.1	680.0
70°	456.7	487.2	536.5	595.9	610.4
72.5°	379.9	414.7	469.8	527.8	545.2
75°	307.4	342.2	400.2	459.6	477.0
77.5°	236.3	275.5	333.5	395.8	414.7
80°	169.6	208.8	269.7	330.6	348.0
82.5°	108.7	149.3	210.2	268.2	282.7
85°	58.0	95.7	150.8	187.0	192.8
87.5°	18.8	49.3	68.1	89.9	91.3
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	15.01	16.69	15.38	17.00	17.31	15.74	17.41	16.10	17.72	18.04
	3H	16.80	18.32	17.18	18.64	19.00	17.90	19.42	18.28	19.74	20.10
	4H	17.43	18.86	17.83	19.21	19.59	18.84	20.27	19.23	20.62	20.99
	6H	17.85	19.19	18.26	19.55	19.94	19.70	21.03	20.11	21.39	21.78
	8H	17.97	19.24	18.39	19.63	20.03	20.07	21.35	20.50	21.73	22.13
	12H	18.03	19.25	18.45	19.63	20.06	20.38	21.60	20.81	21.99	22.41
4H	2H	15.78	17.21	16.18	17.56	17.93	16.34	17.77	16.74	18.12	18.49
	3H	17.80	19.01	18.21	19.41	19.81	18.75	19.96	19.16	20.36	20.76
	4H	18.56	19.66	18.99	20.07	20.51	19.85	20.95	20.28	21.36	21.80
	6H	19.12	20.08	19.57	20.52	20.97	20.90	21.86	21.35	22.30	22.75
	8H	19.28	20.18	19.73	20.62	21.08	21.36	22.26	21.82	22.70	23.17
	12H	19.37	20.19	19.85	20.66	21.13	21.76	22.57	22.23	23.04	23.51
8H	4H	19.05	19.95	19.51	20.40	20.86	20.17	21.07	20.63	21.52	21.98
	6H	19.76	20.52	20.25	21.00	21.48	21.39	22.15	21.88	22.63	23.10
	8H	20.00	20.68	20.51	21.19	21.67	21.99	22.67	22.49	23.17	23.65
	12H	20.17	20.78	20.68	21.27	21.82	22.53	23.13	23.03	23.62	24.18
12H	4H	19.16	19.97	19.63	20.44	20.91	20.20	21.02	20.68	21.49	21.96
	6H	19.92	20.60	20.43	21.11	21.59	21.45	22.13	21.96	22.64	23.12
	8H	20.24	20.85	20.75	21.34	21.89	22.13	22.73	22.63	23.22	23.78