

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: P1589845

Luminaire Tested: 24CZSP-SB-52HE-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589845
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-52HE-L935
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

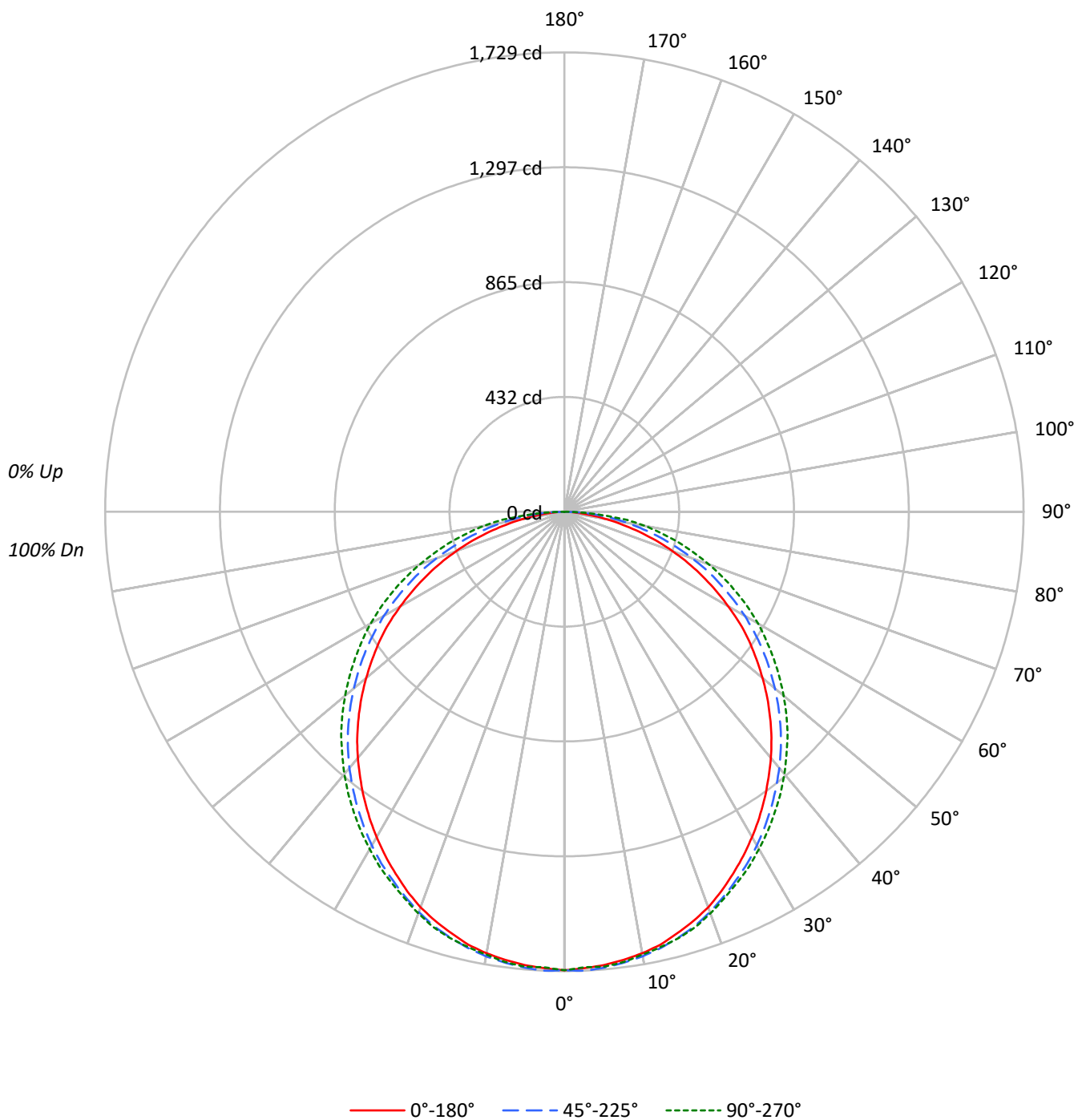
Lumens per Lamp: N/A
Luminaire Lumens: 5036.0 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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: 28.75 FT

TEST NUMBER: P1589845

CATALOG NUMBER: 24CZSP-SB-52HE-L935

Luminous Intensity Polar Plot



TEST NUMBER: P1589845

CATALOG NUMBER: 24CZSP-SB-52HE-L935

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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°	2643	2643	2643
5°	2633	2648	2642
10°	2624	2642	2632
15°	2604	2632	2635
20°	2582	2613	2622
25°	2540	2585	2603
30°	2500	2564	2592
35°	2459	2539	2583
40°	2419	2517	2576
45°	2373	2493	2574
50°	2321	2466	2568
55°	2268	2439	2567
60°	2184	2403	2583
65°	2082	2356	2584
70°	1943	2291	2592
75°	1728	2208	2636
80°	1419	2115	2736
85°	937	1986	2473

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2802 cd/sqm

TEST NUMBER: P1589845

CATALOG NUMBER: 24CZSP-SB-52HE-L935

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.2	3.2
10°-20°	467.2	9.3
20°-30°	704.2	14.0
30°-40°	848.1	16.8
40°-50°	886.0	17.6
50°-60°	814.0	16.2
60°-70°	641.0	12.7
70°-80°	393.0	7.8
80°-90°	119.2	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°	1334.7	26.5
0°-40°	2182.8	43.3
0°-60°	3882.8	77.1
0°-90°	5036.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5036.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1726	1726	1726	1726	1726	
5°	1713	1716	1722	1720	1718	163
15°	1642	1649	1660	1666	1662	464
25°	1503	1512	1530	1546	1540	693
35°	1315	1332	1358	1382	1381	823
45°	1096	1119	1151	1183	1188	845
55°	850	874	913	953	961	758
65°	574	604	650	694	713	568
75°	292	326	373	418	446	310
85°	53	79	113	126	141	69
90°	0	0	0	0	0	

TEST NUMBER: P1589845

CATALOG NUMBER: 24CZSP-SB-52HE-L935

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1725.6	1725.6	1725.6	1725.6	1725.6
2.5°	1719.2	1723.5	1728.8	1720.3	1716.0
5°	1712.8	1716.0	1722.4	1720.3	1718.2
7.5°	1701.1	1703.3	1711.8	1711.8	1709.6
10°	1687.3	1691.5	1699.0	1697.9	1692.6
12.5°	1669.1	1672.3	1680.9	1680.9	1677.7
15°	1642.5	1648.9	1659.6	1665.9	1661.7
17.5°	1614.8	1621.2	1635.0	1641.4	1639.3
20°	1583.9	1589.2	1603.1	1612.7	1608.4
22.5°	1545.5	1551.9	1567.9	1578.5	1574.3
25°	1502.9	1512.5	1529.5	1545.5	1540.2
27.5°	1460.2	1470.9	1492.2	1508.2	1506.1
30°	1413.3	1427.2	1449.6	1469.8	1465.6
32.5°	1365.4	1381.4	1404.8	1426.1	1425.1
35°	1315.3	1332.3	1357.9	1382.4	1381.4
37.5°	1262.0	1282.2	1308.9	1335.5	1336.6
40°	1209.8	1228.9	1258.8	1287.6	1288.6
42.5°	1154.3	1174.6	1206.6	1236.4	1237.5
45°	1095.7	1119.2	1151.1	1183.1	1188.4
47.5°	1036.0	1060.5	1093.6	1127.7	1134.1
50°	974.2	999.8	1035.0	1071.2	1077.6
52.5°	911.3	938.0	974.2	1010.4	1020.0
55°	849.5	874.0	913.4	952.9	961.4
57.5°	784.5	806.9	849.5	891.1	901.7
60°	713.1	740.8	784.5	826.0	843.1
62.5°	643.8	673.6	718.4	760.0	779.1
65°	574.5	604.3	650.2	693.9	713.1
67.5°	504.2	535.1	584.1	625.7	647.0
70°	433.8	464.7	511.6	556.4	578.8
72.5°	363.5	396.5	442.3	488.2	510.5
75°	292.0	326.2	373.1	417.8	445.5
77.5°	224.9	257.9	304.8	350.7	374.1
80°	160.9	194.0	239.8	285.7	310.2
82.5°	102.3	133.2	178.0	216.4	238.8
85°	53.3	78.9	113.0	125.8	140.7
87.5°	16.0	30.9	43.7	49.0	60.8
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1589845

CATALOG NUMBER: 24CZSP-SB-52HE-L935

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	14.9	16.6	15.3	16.9	17.2	15.6	17.3	16.0	17.6	17.9
	3H	16.7	18.2	17.0	18.5	18.8	17.7	19.2	18.1	19.6	19.9
	4H	17.3	18.7	17.7	19.0	19.4	18.6	20.0	19.0	20.4	20.8
	6H	17.7	19.0	18.1	19.4	19.8	19.4	20.7	19.8	21.1	21.5
	8H	17.8	19.1	18.2	19.4	19.8	19.7	21.0	20.1	21.3	21.7
	12H	17.8	19.1	18.3	19.4	19.9	19.9	21.1	20.3	21.5	21.9
4H	2H	15.7	17.1	16.1	17.4	17.8	16.2	17.7	16.6	18.0	18.4
	3H	17.7	18.9	18.1	19.2	19.6	18.6	19.8	19.0	20.2	20.6
	4H	18.4	19.5	18.8	19.9	20.3	19.6	20.7	20.0	21.1	21.5
	6H	18.9	19.9	19.4	20.3	20.8	20.5	21.5	21.0	21.9	22.4
	8H	19.1	20.0	19.6	20.4	20.9	20.9	21.8	21.4	22.3	22.7
	12H	19.2	20.0	19.7	20.5	20.9	21.2	22.0	21.7	22.5	22.9
8H	4H	18.9	19.8	19.3	20.2	20.7	19.9	20.8	20.4	21.2	21.7
	6H	19.5	20.3	20.0	20.8	21.2	21.0	21.7	21.5	22.2	22.7
	8H	19.8	20.4	20.3	20.9	21.4	21.5	22.1	22.0	22.6	23.1
	12H	19.9	20.5	20.4	21.0	21.5	21.9	22.4	22.4	22.9	23.5
12H	4H	18.9	19.7	19.4	20.2	20.7	19.9	20.7	20.4	21.2	21.7
	6H	19.7	20.4	20.2	20.8	21.3	21.1	21.7	21.6	22.2	22.7
	8H	20.0	20.5	20.5	21.0	21.6	21.6	22.2	22.1	22.7	23.2

(END OF REPORT)