

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: P1589984

Luminaire Tested: 24CZSP-SB-70VHE-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-SB-70VHE-L935-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 7500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

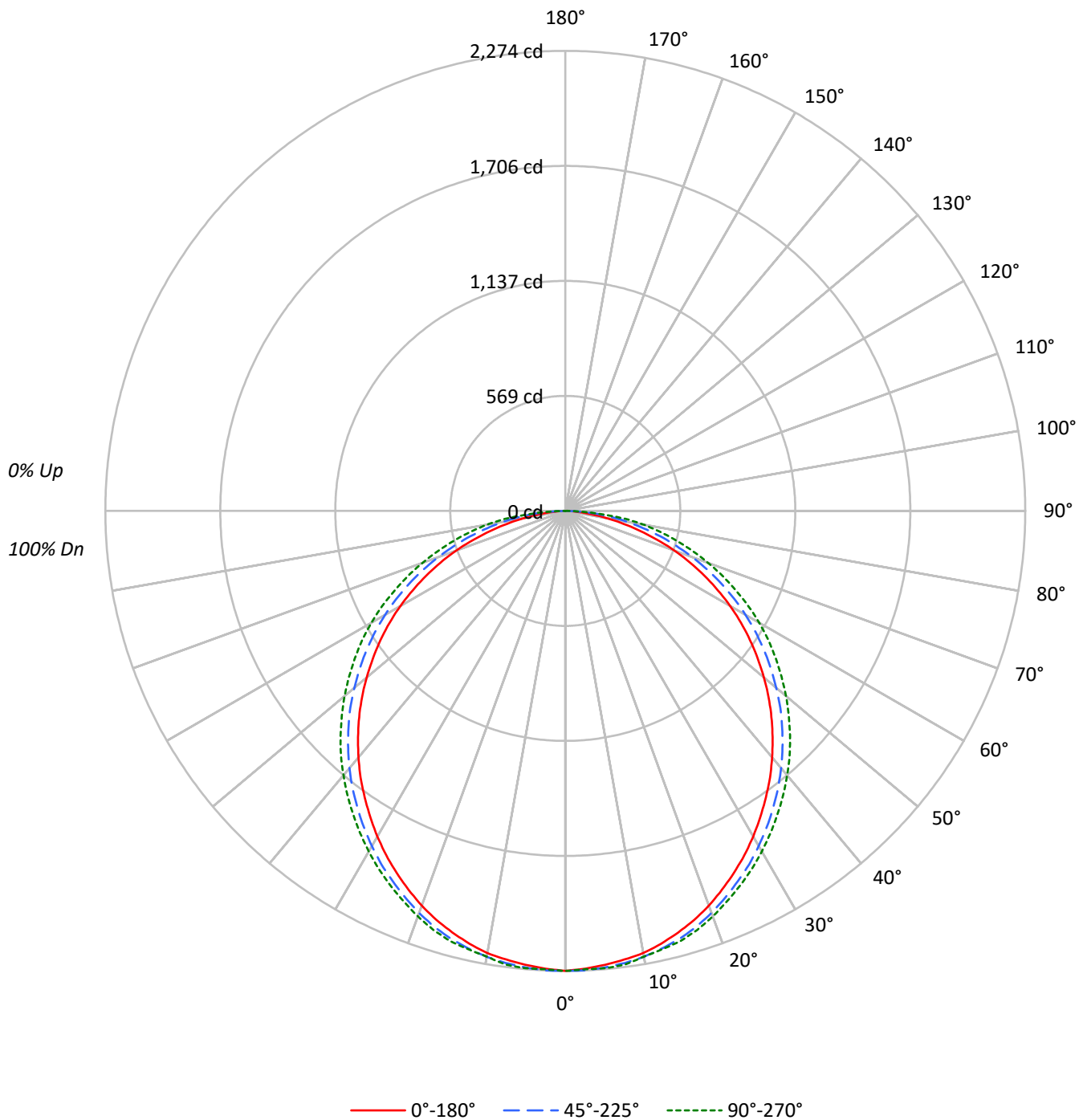
Lumens per Lamp: N/A
Luminaire Lumens: 6614.0 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 53.3
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: P1589984

CATALOG NUMBER: 24CZSP-SB-70VHE-L935-S

Luminous Intensity Polar Plot



TEST NUMBER: P1589984

CATALOG NUMBER: 24CZSP-SB-70VHE-L935-S

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	94	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	66	61		69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53		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	45	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3482	3482	3482
5°	3463	3483	3489
10°	3452	3481	3479
15°	3420	3470	3490
20°	3384	3446	3476
25°	3335	3412	3455
30°	3286	3382	3437
35°	3232	3349	3421
40°	3180	3320	3411
45°	3122	3285	3402
50°	3055	3244	3394
55°	2979	3203	3389
60°	2885	3155	3391
65°	2754	3089	3372
70°	2574	2995	3364
75°	2282	2880	3377
80°	1858	2736	3476
85°	1200	2525	3000

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3523 cd/sqm

TEST NUMBER: P1589984

CATALOG NUMBER: 24CZSP-SB-70VHE-L935-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.2	3.3
10°-20°	616.2	9.3
20°-30°	929.0	14.0
30°-40°	1117.8	16.9
40°-50°	1166.0	17.6
50°-60°	1068.7	16.2
60°-70°	839.2	12.7
70°-80°	510.8	7.7
80°-90°	151.1	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°	1760.3	26.6
0°-40°	2878.1	43.5
0°-60°	5112.9	77.3
0°-90°	6614.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6614.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2274	2274	2274	2274	2274	
5°	2252	2267	2265	2262	2269	214
15°	2157	2178	2188	2191	2201	609
25°	1973	2000	2019	2032	2045	909
35°	1729	1756	1791	1817	1830	1082
45°	1441	1471	1517	1552	1571	1111
55°	1116	1144	1199	1248	1269	997
65°	760	788	852	909	930	751
75°	386	421	487	545	571	409
85°	68	97	144	161	171	89
90°	0	0	0	0	0	

TEST NUMBER: P1589984

CATALOG NUMBER: 24CZSP-SB-70VHE-L935-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2273.7	2273.7	2273.7	2273.7	2273.7
2.5°	2265.1	2276.5	2273.7	2263.7	2268.0
5°	2252.3	2266.6	2265.1	2262.3	2269.4
7.5°	2236.7	2252.3	2253.7	2253.7	2262.3
10°	2219.6	2235.2	2238.1	2233.8	2236.7
12.5°	2191.1	2209.6	2215.3	2215.3	2219.6
15°	2157.0	2178.3	2188.3	2191.1	2201.1
17.5°	2120.0	2142.8	2155.6	2162.7	2171.2
20°	2075.9	2100.1	2114.3	2122.8	2132.8
22.5°	2026.1	2053.1	2068.8	2077.3	2088.7
25°	1973.4	2000.5	2019.0	2031.8	2044.6
27.5°	1918.0	1943.6	1969.2	1984.8	1996.2
30°	1858.2	1885.2	1912.3	1932.2	1943.6
32.5°	1794.2	1822.6	1853.9	1875.3	1888.1
35°	1728.7	1755.8	1791.3	1816.9	1829.7
37.5°	1661.9	1690.3	1727.3	1754.3	1770.0
40°	1590.7	1620.6	1660.4	1690.3	1706.0
42.5°	1516.7	1545.2	1589.3	1623.4	1641.9
45°	1441.3	1471.2	1516.7	1552.3	1570.8
47.5°	1363.1	1391.5	1441.3	1482.6	1498.2
50°	1282.0	1309.0	1361.6	1405.7	1424.2
52.5°	1199.4	1227.9	1280.5	1327.5	1347.4
55°	1115.5	1143.9	1199.4	1247.8	1269.2
57.5°	1030.1	1058.6	1115.5	1165.3	1190.9
60°	941.9	970.4	1030.1	1081.3	1107.0
62.5°	850.8	880.7	941.9	994.6	1021.6
65°	759.8	788.2	852.3	909.2	930.5
67.5°	668.7	697.2	759.8	816.7	842.3
70°	574.8	607.5	668.7	728.5	751.2
72.5°	476.6	513.6	574.8	637.4	660.2
75°	385.6	421.2	486.6	544.9	570.6
77.5°	295.9	334.4	395.5	455.3	480.9
80°	210.6	247.6	310.2	367.1	394.1
82.5°	133.7	166.5	229.1	280.3	300.2
85°	68.3	96.8	143.7	160.8	170.7
87.5°	19.9	34.1	51.2	64.0	71.1
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1589984

CATALOG NUMBER: 24CZSP-SB-70VHE-L935-S

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	15.8	17.5	16.2	17.8	18.1	16.6	18.2	16.9	18.5	18.9
	3H	17.6	19.1	18.0	19.4	19.8	18.6	20.2	19.0	20.5	20.8
	4H	18.2	19.6	18.6	20.0	20.4	19.5	20.9	19.9	21.3	21.7
	6H	18.6	19.9	19.0	20.3	20.7	20.3	21.6	20.7	21.9	22.3
	8H	18.7	20.0	19.2	20.4	20.8	20.6	21.8	21.0	22.2	22.6
	12H	18.8	20.0	19.2	20.4	20.8	20.7	22.0	21.2	22.3	22.8
4H	2H	16.6	18.0	17.0	18.4	18.7	17.2	18.6	17.6	18.9	19.3
	3H	18.6	19.8	19.0	20.2	20.6	19.5	20.7	19.9	21.1	21.5
	4H	19.3	20.4	19.8	20.8	21.3	20.5	21.6	20.9	22.0	22.4
	6H	19.9	20.8	20.3	21.3	21.7	21.4	22.4	21.9	22.8	23.3
	8H	20.0	20.9	20.5	21.3	21.8	21.8	22.7	22.2	23.1	23.6
	12H	20.1	20.9	20.6	21.4	21.8	22.0	22.8	22.5	23.3	23.8
8H	4H	19.8	20.7	20.2	21.1	21.6	20.8	21.7	21.3	22.1	22.6
	6H	20.4	21.2	20.9	21.7	22.1	21.9	22.6	22.4	23.1	23.6
	8H	20.7	21.3	21.2	21.8	22.3	22.3	23.0	22.8	23.5	24.0
	12H	20.8	21.4	21.3	21.9	22.4	22.7	23.3	23.2	23.8	24.3
12H	4H	19.9	20.7	20.3	21.1	21.6	20.8	21.6	21.3	22.1	22.6
	6H	20.6	21.3	21.1	21.7	22.2	21.9	22.6	22.4	23.1	23.6
	8H	20.8	21.4	21.4	21.9	22.5	22.4	23.0	23.0	23.5	24.1

(END OF REPORT)