

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: P1589983

Luminaire Tested: 24CZSP-SB-70VHE-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589983
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-70VHE-L930
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 7500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

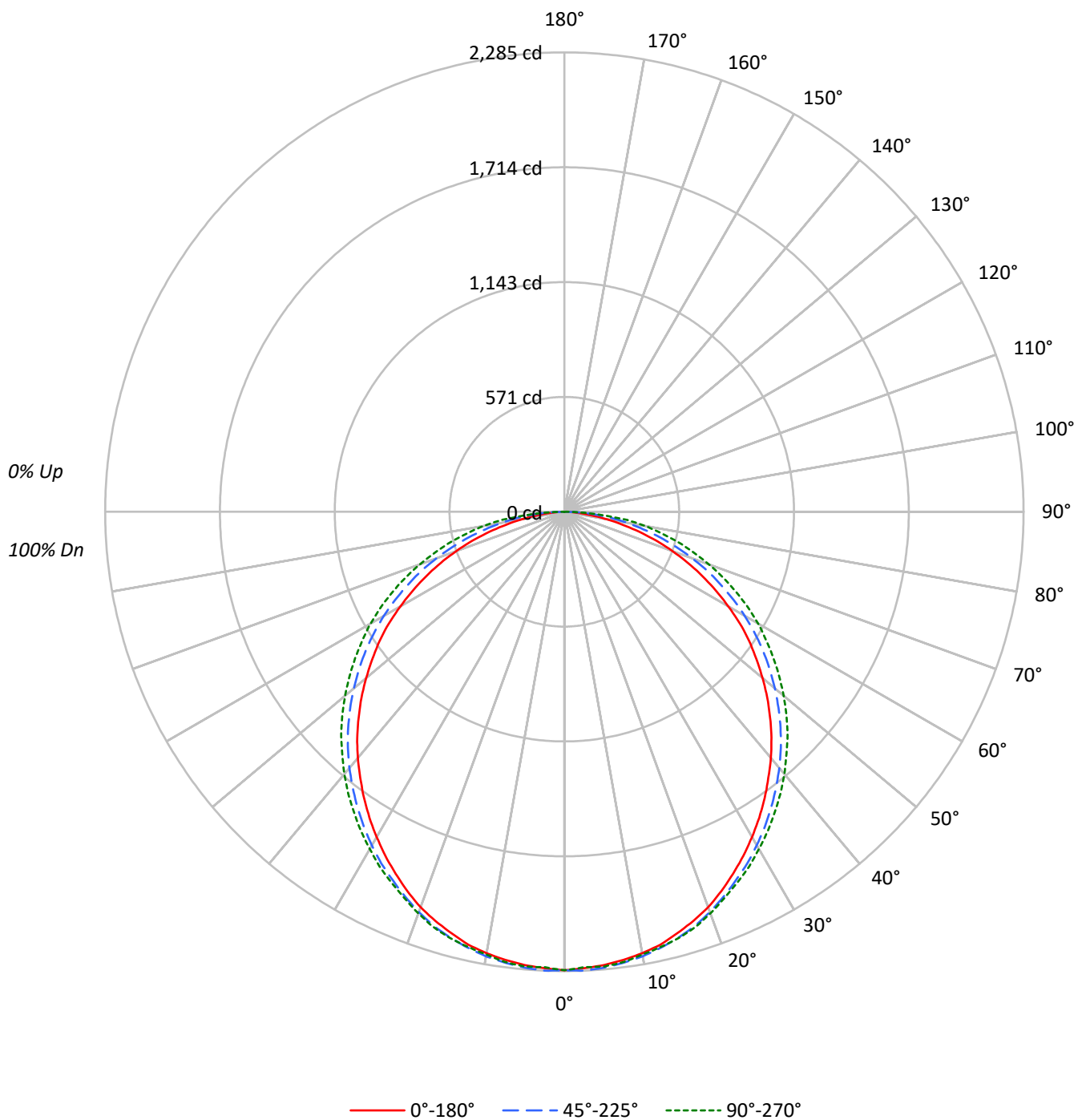
Lumens per Lamp: N/A
Luminaire Lumens: 6655.0 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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Luminous Intensity Polar Plot



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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°	3493	3493	3493
5°	3480	3500	3491
10°	3468	3492	3479
15°	3442	3478	3482
20°	3412	3453	3464
25°	3356	3416	3440
30°	3303	3388	3425
35°	3250	3355	3413
40°	3196	3326	3405
45°	3136	3295	3402
50°	3068	3259	3393
55°	2998	3223	3393
60°	2887	3176	3413
65°	2751	3114	3415
70°	2567	3028	3425
75°	2284	2917	3484
80°	1876	2795	3615
85°	1237	2624	3267

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3702 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.7	3.2
10°-20°	617.4	9.3
20°-30°	930.6	14.0
30°-40°	1120.7	16.8
40°-50°	1170.9	17.6
50°-60°	1075.7	16.2
60°-70°	847.1	12.7
70°-80°	519.3	7.8
80°-90°	157.5	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°	1763.8	26.5
0°-40°	2884.5	43.3
0°-60°	5131.1	77.1
0°-90°	6655.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6655.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2280	2280	2280	2280	2280	
5°	2264	2268	2276	2273	2270	215
15°	2170	2179	2193	2202	2196	613
25°	1986	1999	2021	2042	2035	916
35°	1738	1761	1794	1827	1825	1087
45°	1448	1479	1521	1564	1570	1117
55°	1123	1155	1207	1259	1270	1002
65°	759	799	859	917	942	751
75°	386	431	493	552	589	410
85°	70	104	149	166	186	91
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2280.4	2280.4	2280.4	2280.4	2280.4
2.5°	2272.0	2277.6	2284.6	2273.4	2267.7
5°	2263.5	2267.7	2276.2	2273.4	2270.5
7.5°	2248.0	2250.8	2262.1	2262.1	2259.3
10°	2229.7	2235.3	2245.2	2243.8	2236.7
12.5°	2205.8	2210.0	2221.2	2221.2	2217.0
15°	2170.5	2179.0	2193.1	2201.5	2195.9
17.5°	2133.9	2142.4	2160.7	2169.1	2166.3
20°	2093.1	2100.1	2118.4	2131.1	2125.5
22.5°	2042.4	2050.8	2071.9	2086.0	2080.4
25°	1986.0	1998.7	2021.2	2042.4	2035.3
27.5°	1929.7	1943.8	1971.9	1993.1	1990.2
30°	1867.7	1886.0	1915.6	1942.4	1936.7
32.5°	1804.3	1825.4	1856.4	1884.6	1883.2
35°	1738.1	1760.7	1794.5	1826.9	1825.4
37.5°	1667.7	1694.5	1729.7	1764.9	1766.3
40°	1598.7	1624.0	1663.5	1701.5	1702.9
42.5°	1525.4	1552.2	1594.5	1633.9	1635.3
45°	1448.0	1479.0	1521.2	1563.5	1570.5
47.5°	1369.1	1401.5	1445.1	1490.2	1498.7
50°	1287.4	1321.2	1367.7	1415.6	1424.0
52.5°	1204.3	1239.5	1287.4	1335.3	1348.0
55°	1122.6	1155.0	1207.1	1259.2	1270.5
57.5°	1036.7	1066.3	1122.6	1177.5	1191.6
60°	942.3	978.9	1036.7	1091.6	1114.1
62.5°	850.7	890.2	949.3	1004.3	1029.6
65°	759.2	798.6	859.2	916.9	942.3
67.5°	666.2	707.1	771.9	826.8	855.0
70°	573.3	614.1	676.1	735.3	764.8
72.5°	480.3	524.0	584.5	645.1	674.7
75°	385.9	431.0	493.0	552.1	588.8
77.5°	297.2	340.9	402.8	463.4	494.4
80°	212.7	256.4	316.9	377.5	409.9
82.5°	135.2	176.1	235.2	285.9	315.5
85°	70.4	104.2	149.3	166.2	185.9
87.5°	21.1	40.8	57.7	64.8	80.3
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	15.9	17.5	16.2	17.8	18.2	16.6	18.3	17.0	18.6	18.9
	3H	17.6	19.1	18.0	19.5	19.8	18.7	20.2	19.1	20.5	20.9
	4H	18.2	19.7	18.6	20.0	20.4	19.6	21.0	20.0	21.4	21.7
	6H	18.7	20.0	19.1	20.3	20.7	20.4	21.7	20.8	22.0	22.4
	8H	18.8	20.0	19.2	20.4	20.8	20.7	21.9	21.1	22.3	22.7
	12H	18.8	20.0	19.2	20.4	20.8	20.9	22.1	21.3	22.5	22.9
4H	2H	16.6	18.1	17.0	18.4	18.8	17.2	18.6	17.6	19.0	19.4
	3H	18.6	19.8	19.0	20.2	20.6	19.5	20.7	19.9	21.1	21.5
	4H	19.4	20.5	19.8	20.9	21.3	20.6	21.7	21.0	22.1	22.5
	6H	19.9	20.9	20.4	21.3	21.8	21.5	22.5	22.0	22.9	23.3
	8H	20.1	21.0	20.5	21.4	21.9	21.9	22.8	22.3	23.2	23.7
	12H	20.1	20.9	20.6	21.4	21.9	22.2	23.0	22.6	23.4	23.9
8H	4H	19.8	20.7	20.3	21.2	21.6	20.9	21.8	21.3	22.2	22.7
	6H	20.5	21.3	21.0	21.7	22.2	22.0	22.7	22.4	23.2	23.7
	8H	20.7	21.4	21.2	21.9	22.4	22.4	23.1	23.0	23.6	24.1
	12H	20.9	21.5	21.4	22.0	22.5	22.8	23.4	23.3	23.9	24.5
12H	4H	19.9	20.7	20.4	21.2	21.7	20.9	21.7	21.4	22.2	22.6
	6H	20.6	21.3	21.2	21.8	22.3	22.0	22.7	22.5	23.2	23.7
	8H	20.9	21.5	21.4	22.0	22.6	22.6	23.2	23.1	23.6	24.2

(END OF REPORT)