

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: P1589987

Luminaire Tested: 24CZSP-SB-70VHE-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589987
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-L940
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 7500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

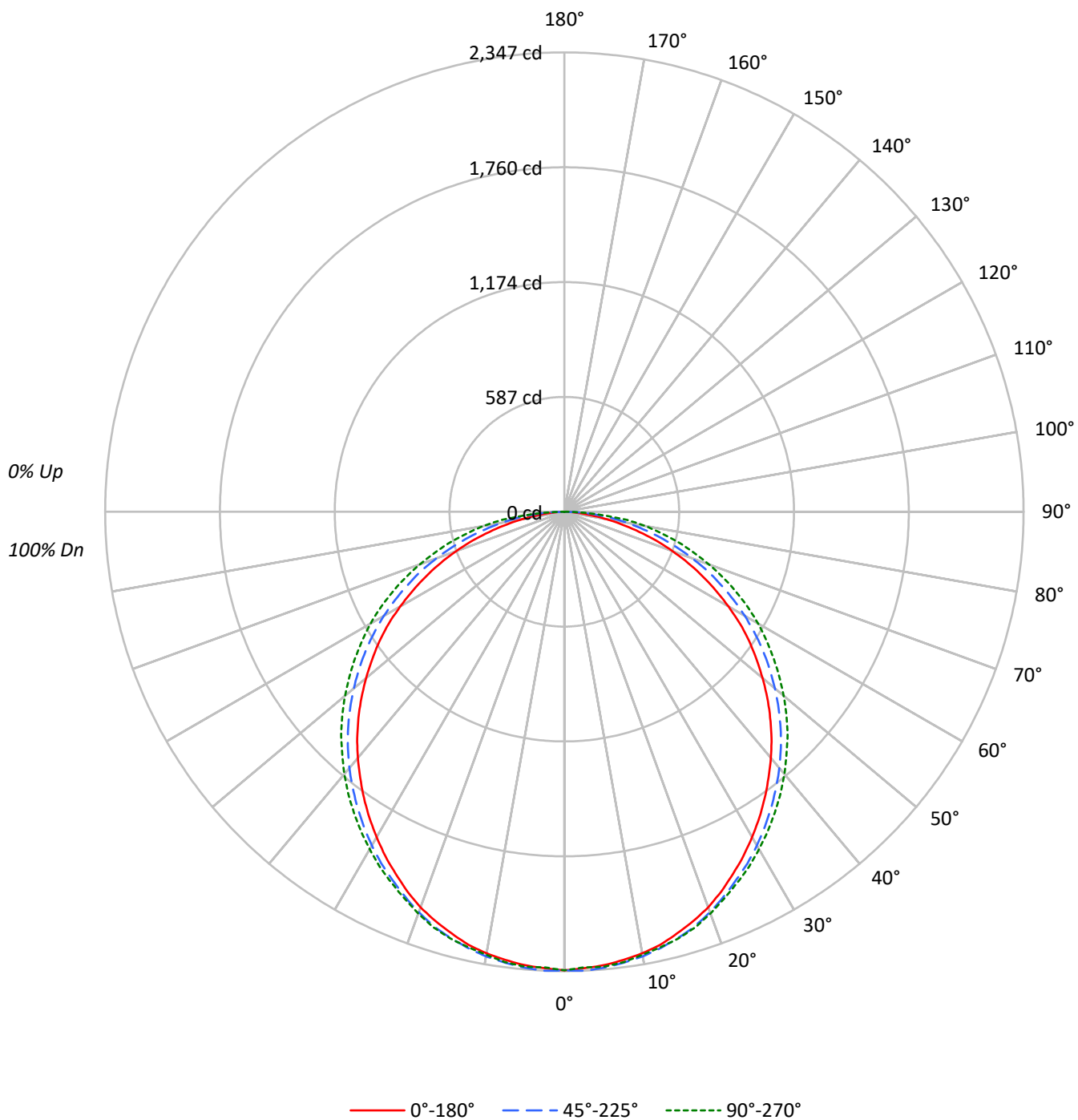
Lumens per Lamp: N/A
Luminaire Lumens: 6837.0 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			
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°	3588	3588	3588
5°	3575	3595	3586
10°	3563	3587	3574
15°	3536	3572	3577
20°	3505	3547	3559
25°	3448	3509	3534
30°	3394	3481	3519
35°	3339	3447	3507
40°	3284	3417	3498
45°	3222	3385	3495
50°	3151	3348	3486
55°	3080	3311	3485
60°	2966	3262	3506
65°	2827	3199	3509
70°	2637	3111	3519
75°	2346	2997	3580
80°	1927	2872	3714
85°	1272	2696	3357

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3803 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.6	3.2
10°-20°	634.3	9.3
20°-30°	956.1	14.0
30°-40°	1151.4	16.8
40°-50°	1202.9	17.6
50°-60°	1105.1	16.2
60°-70°	870.3	12.7
70°-80°	533.5	7.8
80°-90°	161.8	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°	1812.0	26.5
0°-40°	2963.4	43.3
0°-60°	5271.4	77.1
0°-90°	6837.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6837.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2343	2343	2343	2343	2343	
5°	2325	2330	2338	2336	2333	221
15°	2230	2239	2253	2262	2256	629
25°	2040	2053	2076	2098	2091	941
35°	1786	1809	1844	1877	1875	1117
45°	1488	1519	1563	1606	1614	1147
55°	1153	1187	1240	1294	1305	1029
65°	780	820	883	942	968	771
75°	396	443	506	567	605	421
85°	72	107	153	171	191	93
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2342.8	2342.8	2342.8	2342.8	2342.8
2.5°	2334.1	2339.9	2347.1	2335.5	2329.7
5°	2325.4	2329.7	2338.4	2335.5	2332.6
7.5°	2309.5	2312.4	2324.0	2324.0	2321.1
10°	2290.7	2296.5	2306.6	2305.1	2297.9
12.5°	2266.1	2270.4	2282.0	2282.0	2277.6
15°	2229.9	2238.6	2253.0	2261.7	2255.9
17.5°	2192.3	2201.0	2219.8	2228.4	2225.6
20°	2150.3	2157.5	2176.4	2189.4	2183.6
22.5°	2098.2	2106.9	2128.6	2143.1	2137.3
25°	2040.3	2053.4	2076.5	2098.2	2091.0
27.5°	1982.5	1996.9	2025.9	2047.6	2044.7
30°	1918.8	1937.6	1968.0	1995.5	1989.7
32.5°	1853.7	1875.4	1907.2	1936.1	1934.7
35°	1785.7	1808.8	1843.5	1876.8	1875.4
37.5°	1713.3	1740.8	1777.0	1813.1	1814.6
40°	1642.4	1668.4	1709.0	1748.0	1749.5
42.5°	1567.1	1594.6	1638.1	1678.6	1680.0
45°	1487.6	1519.4	1562.8	1606.2	1613.5
47.5°	1406.5	1439.8	1484.7	1531.0	1539.7
50°	1322.6	1357.3	1405.1	1454.3	1463.0
52.5°	1237.2	1273.4	1322.6	1371.8	1384.8
55°	1153.3	1186.6	1240.1	1293.7	1305.2
57.5°	1065.0	1095.4	1153.3	1209.7	1224.2
60°	968.1	1005.7	1065.0	1121.5	1144.6
62.5°	874.0	914.5	975.3	1031.7	1057.8
65°	780.0	820.5	882.7	942.0	968.1
67.5°	684.5	726.4	793.0	849.4	878.4
70°	588.9	630.9	694.6	755.4	785.7
72.5°	493.4	538.3	600.5	662.7	693.1
75°	396.5	442.8	506.5	567.2	604.9
77.5°	305.3	350.2	413.9	476.1	507.9
80°	218.5	263.4	325.6	387.8	421.1
82.5°	138.9	180.9	241.7	293.8	324.1
85°	72.4	107.1	153.4	170.8	191.0
87.5°	21.7	42.0	59.3	66.6	82.5
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	16.0	17.6	16.3	17.9	18.2	16.7	18.4	17.1	18.7	19.0
	3H	17.7	19.2	18.1	19.5	19.9	18.8	20.3	19.2	20.6	21.0
	4H	18.3	19.8	18.7	20.1	20.5	19.7	21.1	20.1	21.4	21.8
	6H	18.8	20.1	19.2	20.4	20.8	20.4	21.8	20.9	22.1	22.5
	8H	18.9	20.1	19.3	20.5	20.9	20.8	22.0	21.2	22.4	22.8
	12H	18.9	20.1	19.3	20.5	20.9	21.0	22.2	21.4	22.6	23.0
4H	2H	16.7	18.1	17.1	18.5	18.9	17.3	18.7	17.7	19.1	19.4
	3H	18.7	19.9	19.1	20.3	20.7	19.6	20.8	20.0	21.2	21.6
	4H	19.5	20.6	19.9	21.0	21.4	20.7	21.8	21.1	22.2	22.6
	6H	20.0	21.0	20.5	21.4	21.9	21.6	22.5	22.0	23.0	23.4
	8H	20.2	21.0	20.6	21.5	22.0	22.0	22.9	22.4	23.3	23.8
	12H	20.2	21.0	20.7	21.5	22.0	22.3	23.1	22.7	23.5	24.0
8H	4H	19.9	20.8	20.4	21.3	21.7	21.0	21.9	21.4	22.3	22.8
	6H	20.6	21.3	21.1	21.8	22.3	22.0	22.8	22.5	23.3	23.8
	8H	20.8	21.5	21.3	22.0	22.5	22.5	23.2	23.0	23.7	24.2
	12H	21.0	21.6	21.5	22.0	22.6	22.9	23.5	23.4	24.0	24.6
12H	4H	20.0	20.8	20.5	21.3	21.8	21.0	21.8	21.5	22.3	22.7
	6H	20.7	21.4	21.3	21.9	22.4	22.1	22.8	22.6	23.2	23.8
	8H	21.0	21.6	21.5	22.1	22.7	22.7	23.2	23.2	23.7	24.3

(END OF REPORT)