

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: P1589986

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589986
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-L940-S
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 7500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

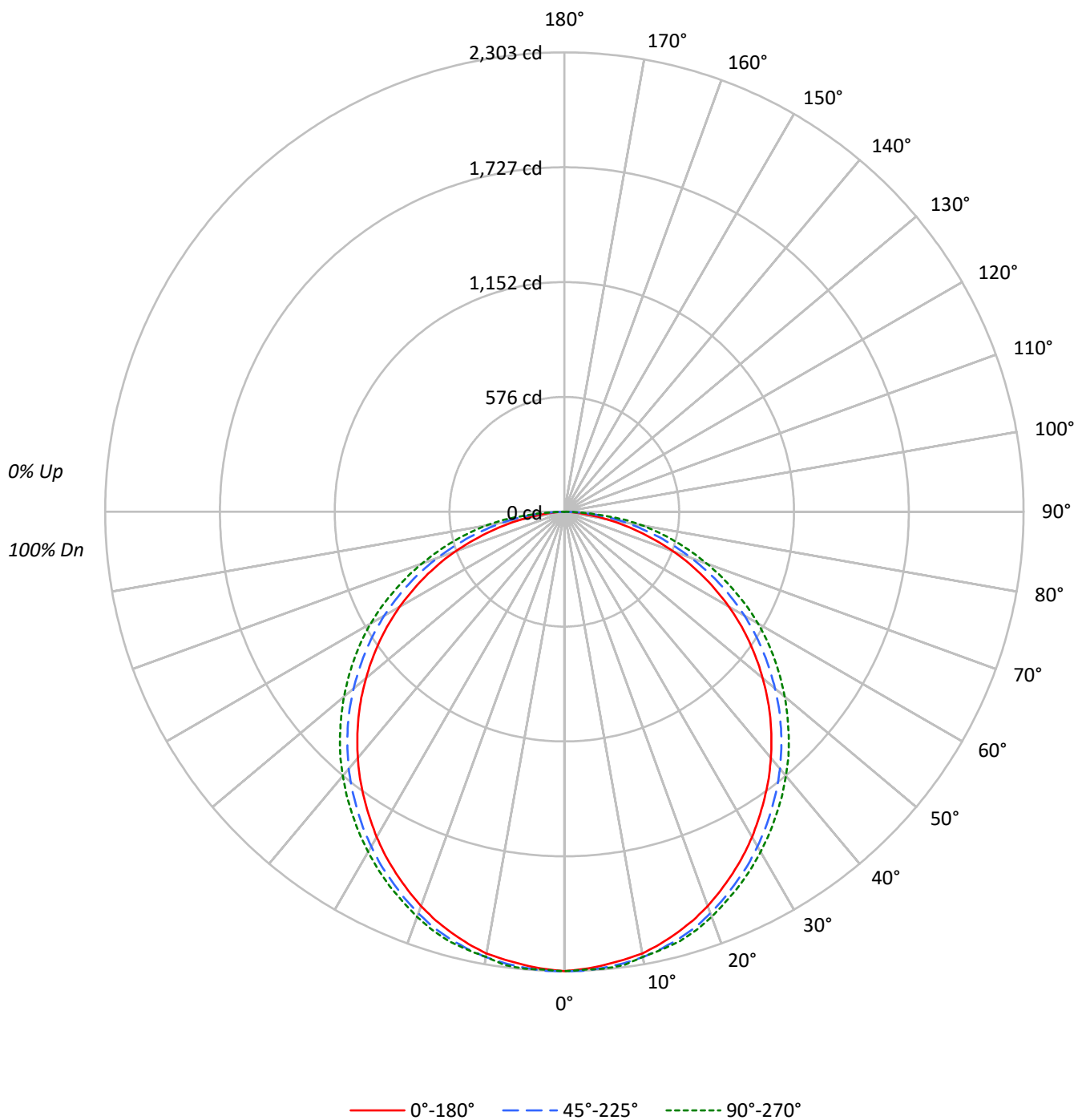
Lumens per Lamp: N/A
Luminaire Lumens: 6700.0 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

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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	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°	3528	3528	3528
5°	3508	3528	3535
10°	3497	3526	3524
15°	3465	3515	3536
20°	3428	3491	3521
25°	3378	3456	3500
30°	3329	3426	3482
35°	3274	3393	3466
40°	3222	3363	3455
45°	3163	3328	3447
50°	3094	3287	3438
55°	3017	3244	3433
60°	2923	3197	3435
65°	2789	3129	3416
70°	2608	3034	3408
75°	2311	2917	3420
80°	1881	2771	3521
85°	1216	2559	3040

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3568 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.0	3.3
10°-20°	624.2	9.3
20°-30°	941.1	14.0
30°-40°	1132.4	16.9
40°-50°	1181.2	17.6
50°-60°	1082.6	16.2
60°-70°	850.2	12.7
70°-80°	517.4	7.7
80°-90°	153.1	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°	1783.2	26.6
0°-40°	2915.6	43.5
0°-60°	5179.3	77.3
0°-90°	6700.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6700.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2303	2303	2303	2303	2303	
5°	2282	2296	2295	2292	2299	217
15°	2185	2207	2217	2220	2230	616
25°	1999	2026	2045	2058	2071	921
35°	1751	1779	1815	1841	1854	1096
45°	1460	1490	1536	1572	1591	1126
55°	1130	1159	1215	1264	1286	1010
65°	770	798	863	921	943	761
75°	391	427	493	552	578	414
85°	69	98	146	163	173	90
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2303.2	2303.2	2303.2	2303.2	2303.2
2.5°	2294.6	2306.1	2303.2	2293.1	2297.5
5°	2281.6	2296.0	2294.6	2291.7	2298.9
7.5°	2265.8	2281.6	2283.0	2283.0	2291.7
10°	2248.5	2264.3	2267.2	2262.9	2265.8
12.5°	2219.6	2238.4	2244.1	2244.1	2248.5
15°	2185.0	2206.7	2216.7	2219.6	2229.7
17.5°	2147.6	2170.6	2183.6	2190.8	2199.5
20°	2102.9	2127.4	2141.8	2150.4	2160.5
22.5°	2052.4	2079.8	2095.7	2104.3	2115.9
25°	1999.1	2026.5	2045.2	2058.2	2071.2
27.5°	1942.9	1968.8	1994.8	2010.6	2022.2
30°	1882.4	1909.7	1937.1	1957.3	1968.8
32.5°	1817.5	1846.3	1878.0	1899.7	1912.6
35°	1751.2	1778.6	1814.6	1840.6	1853.5
37.5°	1683.5	1712.3	1749.8	1777.1	1793.0
40°	1611.4	1641.7	1682.0	1712.3	1728.1
42.5°	1536.4	1565.3	1610.0	1644.5	1663.3
45°	1460.1	1490.3	1536.4	1572.5	1591.2
47.5°	1380.8	1409.6	1460.1	1501.9	1517.7
50°	1298.6	1326.0	1379.3	1424.0	1442.8
52.5°	1215.0	1243.9	1297.2	1344.8	1364.9
55°	1130.0	1158.8	1215.0	1264.0	1285.7
57.5°	1043.5	1072.3	1130.0	1180.4	1206.4
60°	954.2	983.0	1043.5	1095.4	1121.3
62.5°	861.9	892.2	954.2	1007.5	1034.9
65°	769.7	798.5	863.4	921.0	942.6
67.5°	677.4	706.2	769.7	827.3	853.3
70°	582.3	615.4	677.4	738.0	761.0
72.5°	482.8	520.3	582.3	645.7	668.8
75°	390.6	426.6	492.9	552.0	578.0
77.5°	299.8	338.7	400.7	461.2	487.2
80°	213.3	250.8	314.2	371.9	399.2
82.5°	135.5	168.6	232.1	283.9	304.1
85°	69.2	98.0	145.6	162.9	173.0
87.5°	20.2	34.6	51.9	64.9	72.1
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	17.9	18.2	16.6	18.3	17.0	18.6	18.9
	3H	17.6	19.2	18.0	19.5	19.8	18.7	20.2	19.1	20.5	20.9
	4H	18.3	19.7	18.7	20.0	20.4	19.6	21.0	20.0	21.3	21.7
	6H	18.7	20.0	19.1	20.4	20.7	20.3	21.6	20.7	22.0	22.4
	8H	18.8	20.0	19.2	20.4	20.8	20.6	21.9	21.0	22.2	22.6
	12H	18.8	20.0	19.3	20.4	20.8	20.8	22.0	21.2	22.4	22.8
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	21.6	21.0	22.0	22.5
	6H	19.9	20.9	20.4	21.3	21.8	21.5	22.4	21.9	22.8	23.3
	8H	20.1	20.9	20.5	21.4	21.8	21.8	22.7	22.3	23.2	23.6
	12H	20.1	20.9	20.6	21.4	21.9	22.1	22.9	22.6	23.4	23.8
8H	4H	19.8	20.7	20.3	21.2	21.6	20.8	21.7	21.3	22.2	22.6
	6H	20.5	21.2	21.0	21.7	22.2	21.9	22.6	22.4	23.1	23.6
	8H	20.7	21.4	21.2	21.9	22.4	22.4	23.0	22.9	23.5	24.0
	12H	20.8	21.4	21.3	21.9	22.5	22.7	23.3	23.2	23.8	24.4
12H	4H	19.9	20.7	20.4	21.2	21.7	20.9	21.7	21.4	22.1	22.6
	6H	20.6	21.3	21.1	21.8	22.3	22.0	22.6	22.5	23.1	23.6
	8H	20.9	21.5	21.4	22.0	22.5	22.5	23.1	23.0	23.6	24.1

(END OF REPORT)