

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: P1589981

Luminaire Tested: 24CZSP-SB-70VHE-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589981
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-L850
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 7500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

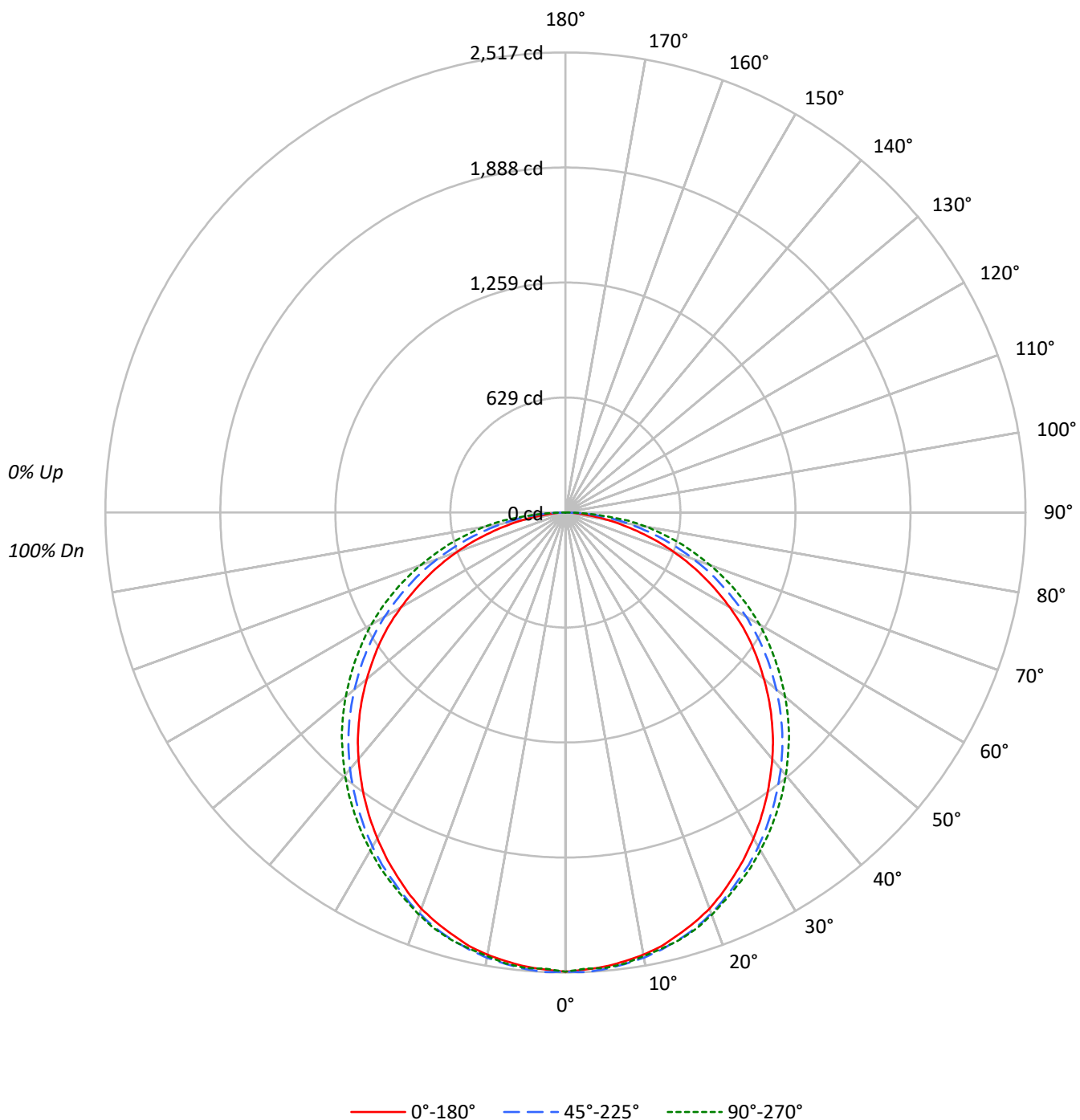
Lumens per Lamp: N/A
Luminaire Lumens: 7332.0 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1589981

CATALOG NUMBER: 24CZSP-SB-70VHE-L850

Luminous Intensity Polar Plot



TEST NUMBER: P1589981

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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°	3848	3848	3848
5°	3834	3856	3846
10°	3820	3847	3833
15°	3792	3831	3836
20°	3759	3804	3817
25°	3698	3763	3790
30°	3639	3733	3774
35°	3580	3697	3760
40°	3522	3664	3751
45°	3455	3630	3748
50°	3380	3590	3738
55°	3303	3551	3738
60°	3180	3499	3760
65°	3031	3431	3763
70°	2828	3336	3773
75°	2516	3214	3839
80°	2067	3080	3983
85°	1364	2891	3599

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4079 cd/sqm

TEST NUMBER: P1589981

CATALOG NUMBER: 24CZSP-SB-70VHE-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.7	3.2
10°-20°	680.3	9.3
20°-30°	1025.3	14.0
30°-40°	1234.7	16.8
40°-50°	1290.0	17.6
50°-60°	1185.1	16.2
60°-70°	933.3	12.7
70°-80°	572.2	7.8
80°-90°	173.5	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°	1943.2	26.5
0°-40°	3178.0	43.3
0°-60°	5653.1	77.1
0°-90°	7332.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7332.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2512	2512	2512	2512	2512	
5°	2494	2498	2508	2505	2502	237
15°	2391	2401	2416	2426	2419	675
25°	2188	2202	2227	2250	2242	1009
35°	1915	1940	1977	2013	2011	1198
45°	1595	1629	1676	1722	1730	1230
55°	1237	1272	1330	1387	1400	1103
65°	836	880	947	1010	1038	827
75°	425	475	543	608	649	452
85°	78	115	164	183	205	100
90°	0	0	0	0	0	

TEST NUMBER: P1589981

CATALOG NUMBER: 24CZSP-SB-70VHE-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2512.4	2512.4	2512.4	2512.4	2512.4
2.5°	2503.1	2509.3	2517.0	2504.6	2498.4
5°	2493.8	2498.4	2507.7	2504.6	2501.5
7.5°	2476.7	2479.8	2492.2	2492.2	2489.1
10°	2456.5	2462.7	2473.6	2472.0	2464.3
12.5°	2430.1	2434.8	2447.2	2447.2	2442.6
15°	2391.3	2400.7	2416.2	2425.5	2419.3
17.5°	2351.0	2360.3	2380.5	2389.8	2386.7
20°	2306.0	2313.8	2333.9	2347.9	2341.7
22.5°	2250.1	2259.4	2282.7	2298.2	2292.0
25°	2188.1	2202.0	2226.8	2250.1	2242.4
27.5°	2126.0	2141.5	2172.5	2195.8	2192.7
30°	2057.7	2077.9	2110.5	2139.9	2133.7
32.5°	1987.9	2011.1	2045.3	2076.3	2074.8
35°	1914.9	1939.8	1977.0	2012.7	2011.1
37.5°	1837.3	1866.8	1905.6	1944.4	1946.0
40°	1761.3	1789.2	1832.7	1874.6	1876.1
42.5°	1680.6	1710.1	1756.7	1800.1	1801.7
45°	1595.3	1629.4	1676.0	1722.5	1730.3
47.5°	1508.4	1544.1	1592.2	1641.8	1651.1
50°	1418.4	1455.6	1506.8	1559.6	1568.9
52.5°	1326.8	1365.6	1418.4	1471.1	1485.1
55°	1236.8	1272.5	1329.9	1387.3	1399.7
57.5°	1142.1	1174.7	1236.8	1297.3	1312.8
60°	1038.2	1078.5	1142.1	1202.7	1227.5
62.5°	937.3	980.7	1045.9	1106.4	1134.4
65°	836.4	879.9	946.6	1010.2	1038.2
67.5°	734.0	779.0	850.4	910.9	941.9
70°	631.6	676.6	744.9	810.0	842.6
72.5°	529.2	577.3	644.0	710.7	743.3
75°	425.2	474.9	543.1	608.3	648.7
77.5°	327.4	375.5	443.8	510.5	544.7
80°	234.3	282.4	349.2	415.9	451.6
82.5°	149.0	194.0	259.2	315.0	347.6
85°	77.6	114.8	164.5	183.1	204.8
87.5°	23.3	45.0	63.6	71.4	88.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1589981

CATALOG NUMBER: 24CZSP-SB-70VHE-L850

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	16.2	17.9	16.6	18.2	18.5	16.9	18.6	17.3	18.9	19.2
	3H	18.0	19.5	18.3	19.8	20.2	19.0	20.5	19.4	20.9	21.2
	4H	18.6	20.0	19.0	20.4	20.7	19.9	21.3	20.3	21.7	22.1
	6H	19.0	20.3	19.4	20.7	21.1	20.7	22.0	21.1	22.4	22.8
	8H	19.1	20.4	19.5	20.8	21.2	21.0	22.3	21.4	22.7	23.0
	12H	19.2	20.4	19.6	20.7	21.2	21.2	22.4	21.6	22.8	23.2
4H	2H	17.0	18.4	17.4	18.7	19.1	17.5	19.0	17.9	19.3	19.7
	3H	19.0	20.2	19.4	20.6	21.0	19.9	21.1	20.3	21.5	21.9
	4H	19.7	20.8	20.1	21.2	21.6	20.9	22.0	21.3	22.4	22.8
	6H	20.2	21.2	20.7	21.6	22.1	21.8	22.8	22.3	23.2	23.7
	8H	20.4	21.3	20.9	21.7	22.2	22.2	23.1	22.7	23.6	24.0
	12H	20.5	21.3	21.0	21.8	22.2	22.5	23.3	23.0	23.8	24.2
8H	4H	20.2	21.1	20.6	21.5	22.0	21.2	22.1	21.7	22.5	23.0
	6H	20.8	21.6	21.3	22.1	22.5	22.3	23.0	22.8	23.5	24.0
	8H	21.1	21.7	21.6	22.2	22.7	22.8	23.4	23.3	24.0	24.4
	12H	21.2	21.8	21.7	22.3	22.9	23.2	23.7	23.7	24.2	24.8
12H	4H	20.2	21.1	20.7	21.5	22.0	21.2	22.0	21.7	22.5	23.0
	6H	21.0	21.7	21.5	22.1	22.7	22.4	23.0	22.9	23.5	24.0
	8H	21.3	21.9	21.8	22.3	22.9	22.9	23.5	23.4	24.0	24.5

(END OF REPORT)