

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: P1590024

Luminaire Tested: 24CZSP-SB-75VHE-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590024
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-75VHE-L935-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 8000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

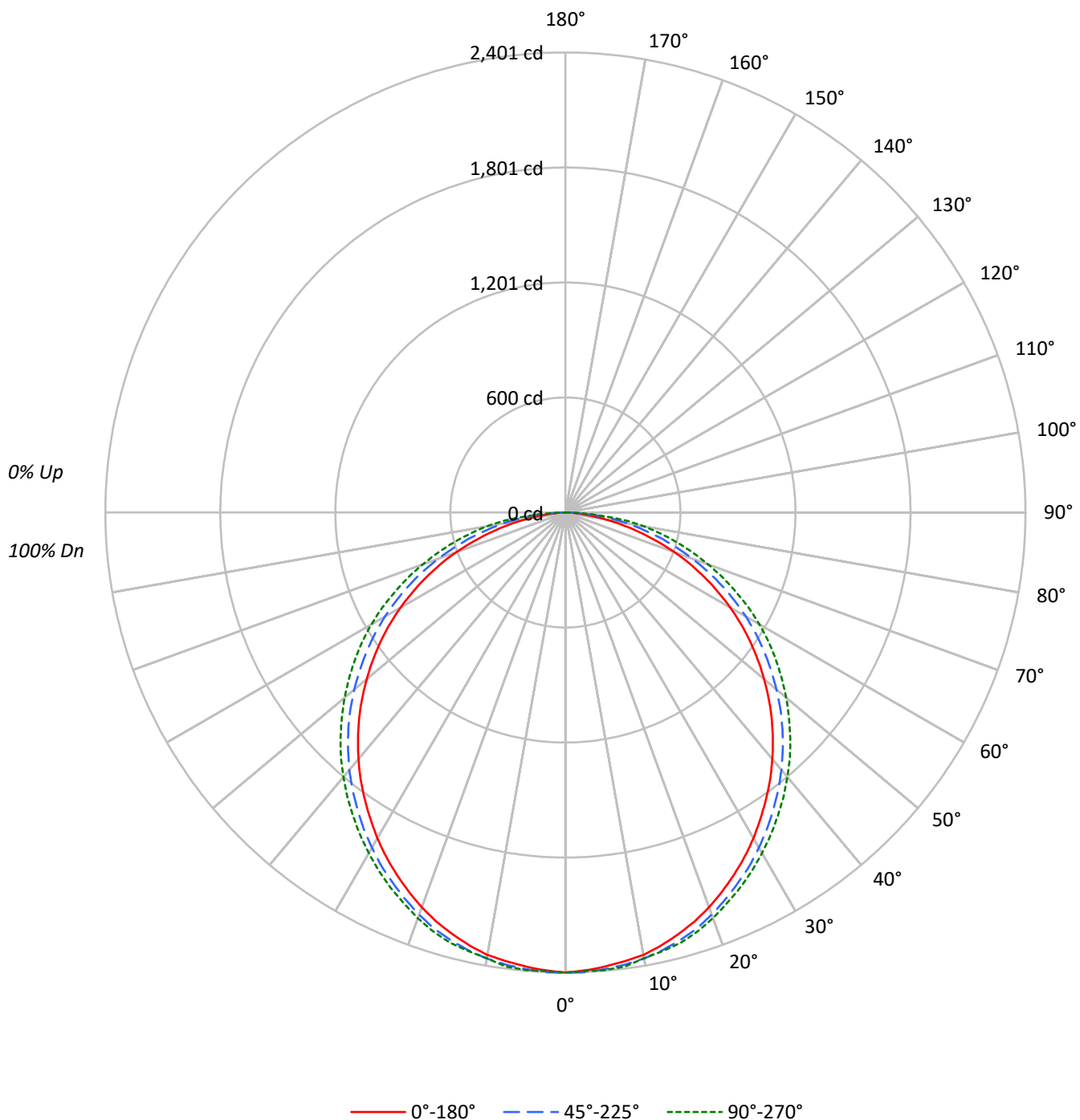
Lumens per Lamp: N/A
Luminaire Lumens: 6985.0 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 56.9
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°	3678	3678	3678
5°	3657	3678	3685
10°	3646	3676	3674
15°	3612	3664	3686
20°	3573	3639	3671
25°	3522	3603	3649
30°	3471	3572	3630
35°	3414	3537	3613
40°	3359	3506	3602
45°	3297	3470	3593
50°	3226	3426	3584
55°	3146	3382	3579
60°	3047	3333	3581
65°	2908	3262	3561
70°	2719	3162	3553
75°	2410	3041	3566
80°	1962	2890	3671
85°	1267	2668	3168

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3721 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.2	3.3
10°-20°	650.7	9.3
20°-30°	981.1	14.0
30°-40°	1180.5	16.9
40°-50°	1231.4	17.6
50°-60°	1128.7	16.2
60°-70°	886.3	12.7
70°-80°	539.4	7.7
80°-90°	159.6	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°	1859.1	26.6
0°-40°	3039.6	43.5
0°-60°	5399.7	77.3
0°-90°	6985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6985.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2401	2401	2401	2401	2401	
5°	2379	2394	2392	2389	2397	226
15°	2278	2300	2311	2314	2325	643
25°	2084	2113	2132	2146	2159	960
35°	1826	1854	1892	1919	1932	1143
45°	1522	1554	1602	1639	1659	1174
55°	1178	1208	1267	1318	1340	1053
65°	802	832	900	960	983	794
75°	407	445	514	576	603	432
85°	72	102	152	170	180	94
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2401.2	2401.2	2401.2	2401.2	2401.2
2.5°	2392.2	2404.2	2401.2	2390.7	2395.2
5°	2378.7	2393.7	2392.2	2389.2	2396.7
7.5°	2362.1	2378.7	2380.2	2380.2	2389.2
10°	2344.1	2360.6	2363.6	2359.1	2362.1
12.5°	2314.0	2333.6	2339.6	2339.6	2344.1
15°	2278.0	2300.5	2311.0	2314.0	2324.6
17.5°	2238.9	2263.0	2276.5	2284.0	2293.0
20°	2192.3	2217.9	2232.9	2241.9	2252.4
22.5°	2139.7	2168.3	2184.8	2193.8	2205.9
25°	2084.1	2112.7	2132.2	2145.8	2159.3
27.5°	2025.5	2052.6	2079.6	2096.2	2108.2
30°	1962.4	1991.0	2019.5	2040.6	2052.6
32.5°	1894.8	1924.9	1957.9	1980.5	1994.0
35°	1825.7	1854.2	1891.8	1918.9	1932.4
37.5°	1755.1	1785.1	1824.2	1852.7	1869.3
40°	1679.9	1711.5	1753.6	1785.1	1801.7
42.5°	1601.8	1631.9	1678.4	1714.5	1734.0
45°	1522.2	1553.7	1601.8	1639.4	1658.9
47.5°	1439.5	1469.6	1522.2	1565.7	1582.3
50°	1353.9	1382.4	1438.0	1484.6	1504.1
52.5°	1266.7	1296.8	1352.4	1402.0	1423.0
55°	1178.1	1208.1	1266.7	1317.8	1340.3
57.5°	1087.9	1118.0	1178.1	1230.7	1257.7
60°	994.7	1024.8	1087.9	1142.0	1169.0
62.5°	898.6	930.1	994.7	1050.3	1078.9
65°	802.4	832.5	900.1	960.2	982.7
67.5°	706.2	736.3	802.4	862.5	889.6
70°	607.1	641.6	706.2	769.3	793.4
72.5°	503.4	542.4	607.1	673.2	697.2
75°	407.2	444.8	513.9	575.5	602.6
77.5°	312.5	353.1	417.7	480.8	507.9
80°	222.4	261.5	327.6	387.7	416.2
82.5°	141.2	175.8	241.9	296.0	317.1
85°	72.1	102.2	151.8	169.8	180.3
87.5°	21.0	36.1	54.1	67.6	75.1
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	16.0	17.7	16.4	18.0	18.3	16.8	18.4	17.1	18.7	19.0
	3H	17.8	19.3	18.2	19.6	20.0	18.8	20.3	19.2	20.7	21.0
	4H	18.4	19.8	18.8	20.2	20.6	19.7	21.1	20.1	21.5	21.8
	6H	18.8	20.1	19.2	20.5	20.9	20.4	21.8	20.9	22.1	22.5
	8H	18.9	20.2	19.3	20.6	21.0	20.7	22.0	21.2	22.4	22.8
	12H	19.0	20.2	19.4	20.6	21.0	20.9	22.1	21.4	22.5	23.0
4H	2H	16.8	18.2	17.2	18.6	18.9	17.4	18.8	17.8	19.1	19.5
	3H	18.8	20.0	19.2	20.4	20.8	19.7	20.9	20.1	21.3	21.7
	4H	19.5	20.6	20.0	21.0	21.5	20.7	21.8	21.1	22.2	22.6
	6H	20.1	21.0	20.5	21.4	21.9	21.6	22.6	22.1	23.0	23.4
	8H	20.2	21.1	20.7	21.5	22.0	22.0	22.9	22.4	23.3	23.8
	12H	20.3	21.1	20.8	21.6	22.0	22.2	23.0	22.7	23.5	24.0
8H	4H	20.0	20.9	20.4	21.3	21.8	21.0	21.9	21.5	22.3	22.8
	6H	20.6	21.4	21.1	21.9	22.3	22.1	22.8	22.5	23.3	23.8
	8H	20.8	21.5	21.4	22.0	22.5	22.5	23.2	23.0	23.7	24.2
	12H	21.0	21.6	21.5	22.1	22.6	22.9	23.5	23.4	24.0	24.5
12H	4H	20.1	20.9	20.5	21.3	21.8	21.0	21.8	21.5	22.3	22.8
	6H	20.8	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	22.6	23.2	23.1	23.7	24.3

(END OF REPORT)