

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: P1590044

Luminaire Tested: 24CZSP-SB-80-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590044
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-80-L935-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 8000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

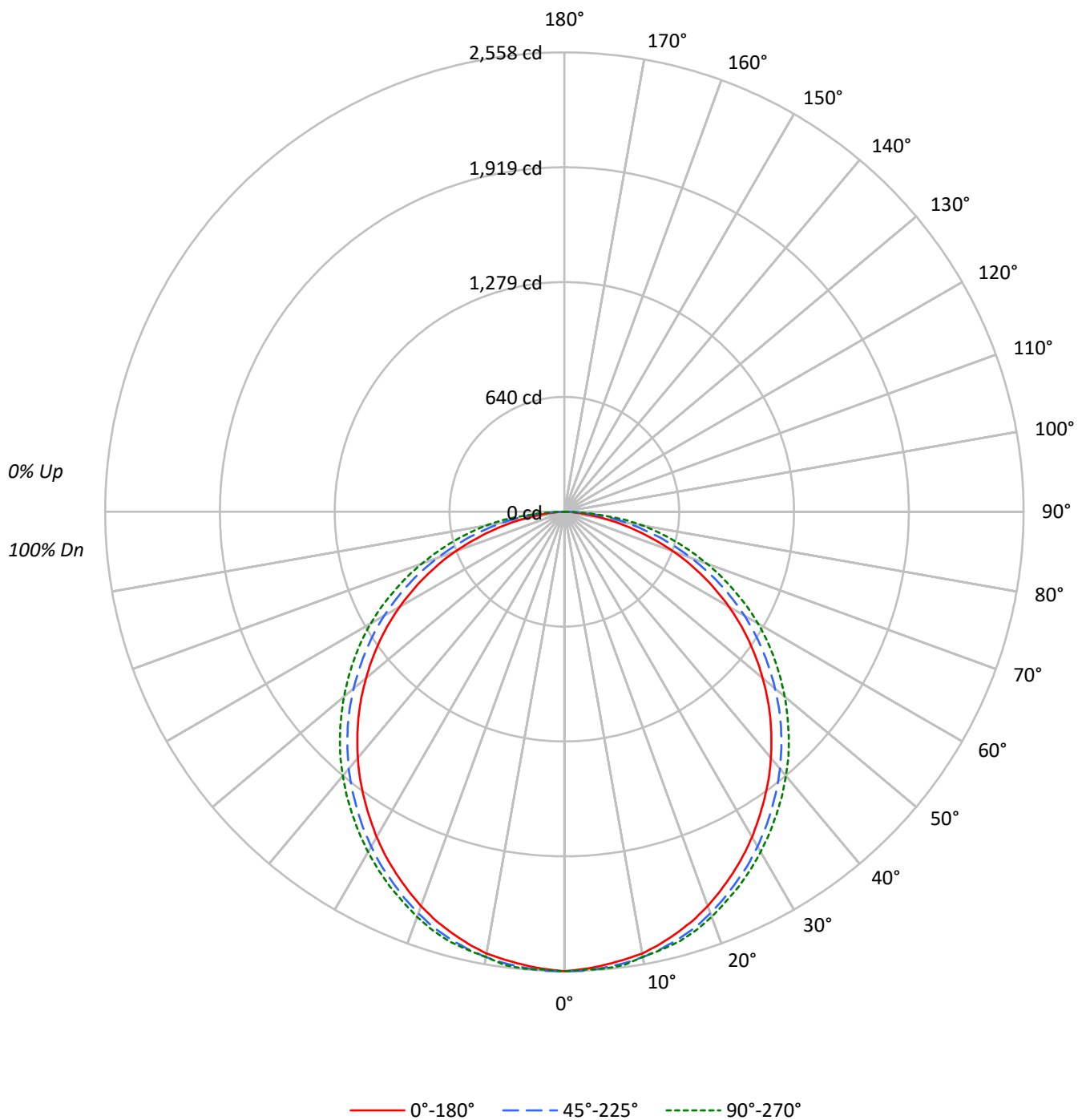
Lumens per Lamp: N/A
Luminaire Lumens: 7442.0 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 62.7
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°	3918	3918	3918
5°	3896	3919	3926
10°	3884	3917	3914
15°	3848	3904	3927
20°	3807	3878	3911
25°	3753	3839	3888
30°	3698	3805	3868
35°	3637	3769	3849
40°	3579	3735	3838
45°	3513	3697	3828
50°	3437	3651	3818
55°	3352	3604	3813
60°	3246	3551	3815
65°	3098	3476	3794
70°	2896	3369	3785
75°	2568	3240	3799
80°	2090	3078	3912
85°	1350	2842	3376

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3964 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.1	3.3
10°-20°	693.3	9.3
20°-30°	1045.3	14.0
30°-40°	1257.8	16.9
40°-50°	1312.0	17.6
50°-60°	1202.5	16.2
60°-70°	944.3	12.7
70°-80°	574.7	7.7
80°-90°	170.0	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°	1980.7	26.6
0°-40°	3238.4	43.5
0°-60°	5753.0	77.3
0°-90°	7442.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7442.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2558	2558	2558	2558	2558	
5°	2534	2550	2549	2546	2554	241
15°	2427	2451	2462	2465	2477	685
25°	2220	2251	2272	2286	2301	1023
35°	1945	1976	2016	2044	2059	1217
45°	1622	1655	1707	1747	1767	1251
55°	1255	1287	1350	1404	1428	1122
65°	855	887	959	1023	1047	846
75°	434	474	548	613	642	460
85°	77	109	162	181	192	100
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2558.3	2558.3	2558.3	2558.3	2558.3
2.5°	2548.7	2561.5	2558.3	2547.1	2551.9
5°	2534.3	2550.3	2548.7	2545.5	2553.5
7.5°	2516.7	2534.3	2535.9	2535.9	2545.5
10°	2497.5	2515.1	2518.3	2513.5	2516.7
12.5°	2465.4	2486.3	2492.7	2492.7	2497.5
15°	2427.0	2451.0	2462.2	2465.4	2476.7
17.5°	2385.4	2411.0	2425.4	2433.4	2443.0
20°	2335.8	2363.0	2379.0	2388.6	2399.8
22.5°	2279.7	2310.2	2327.8	2337.4	2350.2
25°	2220.5	2250.9	2271.7	2286.1	2300.6
27.5°	2158.1	2186.9	2215.7	2233.3	2246.1
30°	2090.8	2121.2	2151.7	2174.1	2186.9
32.5°	2018.8	2050.8	2086.0	2110.0	2124.4
35°	1945.1	1975.6	2015.6	2044.4	2058.8
37.5°	1869.9	1901.9	1943.5	1974.0	1991.6
40°	1789.9	1823.5	1868.3	1901.9	1919.5
42.5°	1706.6	1738.6	1788.2	1826.7	1847.5
45°	1621.8	1655.4	1706.6	1746.6	1767.4
47.5°	1533.7	1565.7	1621.8	1668.2	1685.8
50°	1442.4	1472.9	1532.1	1581.7	1602.5
52.5°	1349.6	1381.6	1440.8	1493.7	1516.1
55°	1255.1	1287.2	1349.6	1404.0	1428.0
57.5°	1159.1	1191.1	1255.1	1311.2	1340.0
60°	1059.8	1091.8	1159.1	1216.7	1245.5
62.5°	957.4	991.0	1059.8	1119.1	1149.5
65°	854.9	886.9	959.0	1023.0	1047.0
67.5°	752.4	784.5	854.9	918.9	947.8
70°	646.8	683.6	752.4	819.7	845.3
72.5°	536.3	577.9	646.8	717.2	742.8
75°	433.9	473.9	547.5	613.2	642.0
77.5°	333.0	376.2	445.1	512.3	541.1
80°	236.9	278.6	349.0	413.0	443.5
82.5°	150.5	187.3	257.8	315.4	337.8
85°	76.8	108.9	161.7	180.9	192.1
87.5°	22.4	38.4	57.6	72.0	80.0
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	16.2	17.9	16.6	18.2	18.5	17.0	18.6	17.3	19.0	19.3
	3H	18.0	19.5	18.4	19.8	20.2	19.1	20.6	19.4	20.9	21.2
	4H	18.6	20.1	19.0	20.4	20.8	19.9	21.3	20.3	21.7	22.1
	6H	19.0	20.4	19.5	20.7	21.1	20.7	22.0	21.1	22.4	22.7
	8H	19.1	20.4	19.6	20.8	21.2	21.0	22.2	21.4	22.6	23.0
	12H	19.2	20.4	19.6	20.8	21.2	21.2	22.4	21.6	22.7	23.2
4H	2H	17.0	18.4	17.4	18.8	19.2	17.6	19.0	18.0	19.4	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	20.2	21.2	21.7	20.9	22.0	21.3	22.4	22.8
	6H	20.3	21.2	20.7	21.7	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	22.6	23.5	24.0
	12H	20.5	21.3	21.0	21.8	22.2	22.4	23.2	22.9	23.7	24.2
8H	4H	20.2	21.1	20.7	21.5	22.0	21.2	22.1	21.7	22.5	23.0
	6H	20.9	21.6	21.3	22.1	22.6	22.3	23.0	22.8	23.5	24.0
	8H	21.1	21.7	21.6	22.2	22.7	22.7	23.4	23.3	23.9	24.4
	12H	21.2	21.8	21.7	22.3	22.8	23.1	23.7	23.6	24.2	24.7
12H	4H	20.3	21.1	20.8	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	22.3	23.0	22.9	23.5	24.0
	8H	21.3	21.8	21.8	22.3	22.9	22.9	23.4	23.4	23.9	24.5

(END OF REPORT)