

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: P1590041

Luminaire Tested: 24CZSP-SB-80-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590041
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-80-L850
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 8000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

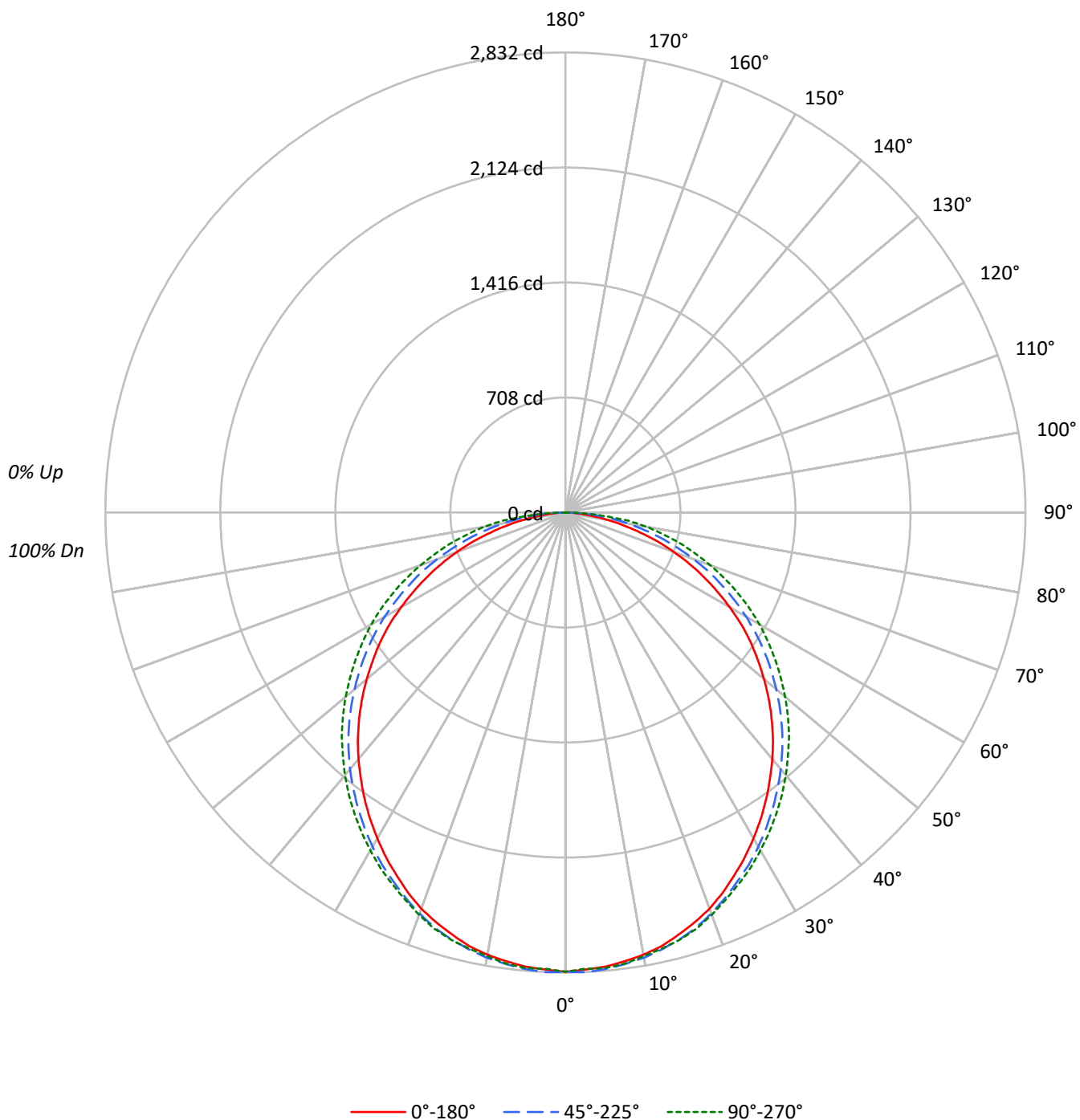
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8250.0 lumens
Efficiency: N/A
Efficacy: 131.6 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): 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	4330	4330	4330
5°	4314	4338	4328
10°	4299	4329	4312
15°	4267	4311	4316
20°	4229	4280	4295
25°	4161	4235	4264
30°	4095	4200	4246
35°	4029	4159	4231
40°	3962	4123	4221
45°	3888	4085	4217
50°	3803	4040	4206
55°	3716	3996	4206
60°	3578	3937	4231
65°	3411	3860	4233
70°	3183	3753	4246
75°	2831	3616	4319
80°	2326	3465	4482
85°	1534	3253	4051

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4589 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.4	3.2
10°-20°	765.4	9.3
20°-30°	1153.7	14.0
30°-40°	1389.3	16.8
40°-50°	1451.5	17.6
50°-60°	1333.5	16.2
60°-70°	1050.1	12.7
70°-80°	643.8	7.8
80°-90°	195.2	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°	2186.5	26.5
0°-40°	3575.9	43.3
0°-60°	6360.8	77.1
0°-90°	8250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8250.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2827	2827	2827	2827	2827	
5°	2806	2811	2822	2818	2815	266
15°	2691	2701	2719	2729	2722	759
25°	2462	2478	2506	2532	2523	1135
35°	2155	2183	2224	2265	2263	1348
45°	1795	1833	1886	1938	1947	1385
55°	1392	1432	1496	1561	1575	1242
65°	941	990	1065	1137	1168	930
75°	478	534	611	684	730	509
85°	87	129	185	206	230	112
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2826.9	2826.9	2826.9	2826.9	2826.9
2.5°	2816.5	2823.5	2832.2	2818.2	2811.2
5°	2806.0	2811.2	2821.7	2818.2	2814.7
7.5°	2786.8	2790.3	2804.2	2804.2	2800.8
10°	2764.1	2771.1	2783.3	2781.5	2772.8
12.5°	2734.4	2739.6	2753.6	2753.6	2748.4
15°	2690.7	2701.2	2718.7	2729.2	2722.2
17.5°	2645.3	2655.8	2678.5	2689.0	2685.5
20°	2594.7	2603.4	2626.1	2641.9	2634.9
22.5°	2531.9	2542.3	2568.5	2586.0	2579.0
25°	2462.0	2477.7	2505.7	2531.9	2523.1
27.5°	2392.2	2409.6	2444.5	2470.7	2467.2
30°	2315.3	2338.0	2374.7	2407.9	2400.9
32.5°	2236.8	2263.0	2301.4	2336.3	2334.5
35°	2154.7	2182.6	2224.5	2264.7	2263.0
37.5°	2067.4	2100.6	2144.2	2187.9	2189.6
40°	1981.8	2013.3	2062.2	2109.3	2111.0
42.5°	1891.0	1924.2	1976.6	2025.5	2027.2
45°	1795.0	1833.4	1885.8	1938.2	1946.9
47.5°	1697.2	1737.4	1791.5	1847.4	1857.9
50°	1595.9	1637.8	1695.5	1754.8	1765.3
52.5°	1492.9	1536.6	1595.9	1655.3	1671.0
55°	1391.6	1431.8	1496.4	1561.0	1575.0
57.5°	1285.1	1321.8	1391.6	1459.7	1477.2
60°	1168.1	1213.5	1285.1	1353.2	1381.2
62.5°	1054.6	1103.5	1176.9	1245.0	1276.4
65°	941.2	990.0	1065.1	1136.7	1168.1
67.5°	825.9	876.5	956.9	1025.0	1059.9
70°	710.7	761.3	838.1	911.5	948.1
72.5°	595.4	649.6	724.6	799.7	836.4
75°	478.4	534.3	611.1	684.5	729.9
77.5°	368.4	422.6	499.4	574.5	612.9
80°	263.7	317.8	392.9	468.0	508.1
82.5°	167.6	218.3	291.6	354.5	391.1
85°	87.3	129.2	185.1	206.0	230.5
87.5°	26.2	50.6	71.6	80.3	99.5
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	16.6	18.3	17.0	18.6	18.9	17.4	19.0	17.7	19.3	19.6
	3H	18.4	19.9	18.7	20.2	20.6	19.4	21.0	19.8	21.3	21.6
	4H	19.0	20.4	19.4	20.8	21.1	20.3	21.8	20.7	22.1	22.5
	6H	19.4	20.7	19.8	21.1	21.5	21.1	22.4	21.5	22.8	23.2
	8H	19.5	20.8	19.9	21.2	21.6	21.4	22.7	21.8	23.1	23.5
	12H	19.6	20.8	20.0	21.2	21.6	21.6	22.8	22.1	23.2	23.6
4H	2H	17.4	18.8	17.8	19.1	19.5	18.0	19.4	18.4	19.7	20.1
	3H	19.4	20.6	19.8	21.0	21.4	20.3	21.5	20.7	21.9	22.3
	4H	20.1	21.2	20.6	21.6	22.1	21.3	22.4	21.7	22.8	23.3
	6H	20.7	21.6	21.1	22.1	22.5	22.2	23.2	22.7	23.6	24.1
	8H	20.8	21.7	21.3	22.1	22.6	22.6	23.5	23.1	24.0	24.4
	12H	20.9	21.7	21.4	22.2	22.6	22.9	23.7	23.4	24.2	24.7
8H	4H	20.6	21.5	21.0	21.9	22.4	21.6	22.5	22.1	23.0	23.4
	6H	21.3	22.0	21.7	22.5	23.0	22.7	23.4	23.2	23.9	24.4
	8H	21.5	22.1	22.0	22.6	23.1	23.2	23.9	23.7	24.4	24.8
	12H	21.6	22.2	22.1	22.7	23.3	23.6	24.2	24.1	24.6	25.2
12H	4H	20.7	21.5	21.1	21.9	22.4	21.6	22.4	22.1	22.9	23.4
	6H	21.4	22.1	21.9	22.5	23.1	22.8	23.4	23.3	23.9	24.4
	8H	21.7	22.3	22.2	22.8	23.3	23.3	23.9	23.8	24.4	24.9

(END OF REPORT)