

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: P1590040

Luminaire Tested: 24CZSP-SB-80-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590040
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-L850-S
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 8000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

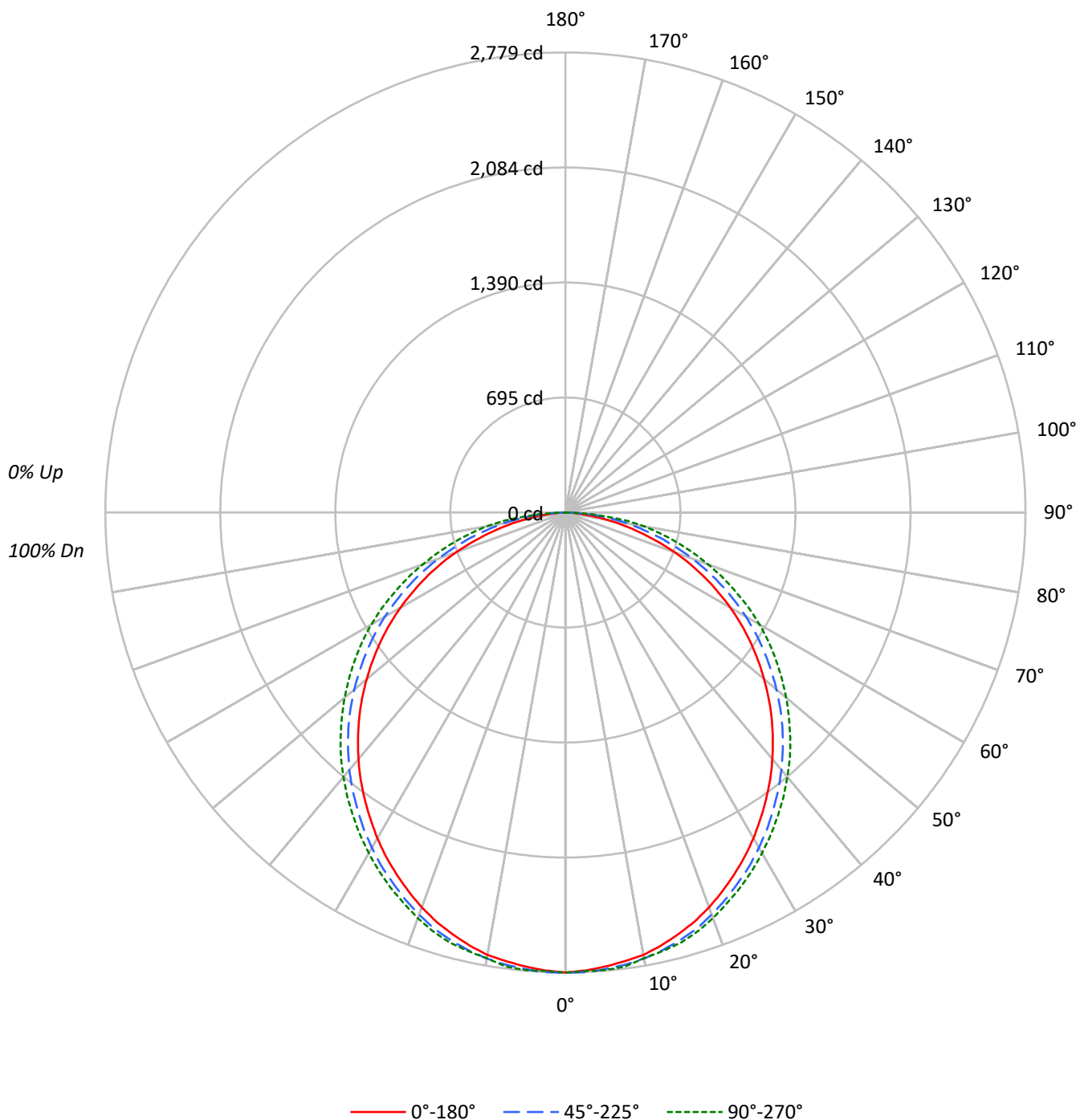
Lumens per Lamp: N/A
Luminaire Lumens: 8085.0 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	4257	4257	4257
5°	4233	4257	4265
10°	4220	4255	4252
15°	4181	4242	4266
20°	4136	4213	4250
25°	4077	4171	4224
30°	4017	4134	4202
35°	3951	4094	4182
40°	3888	4058	4170
45°	3816	4016	4159
50°	3734	3966	4148
55°	3641	3915	4143
60°	3527	3857	4145
65°	3366	3776	4122
70°	3147	3661	4112
75°	2789	3520	4127
80°	2270	3345	4250
85°	1467	3088	3668

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4306 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.0	3.3
10°-20°	753.2	9.3
20°-30°	1135.6	14.0
30°-40°	1366.4	16.9
40°-50°	1425.3	17.6
50°-60°	1306.4	16.2
60°-70°	1025.9	12.7
70°-80°	624.4	7.7
80°-90°	184.7	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°	2151.8	26.6
0°-40°	3518.2	43.5
0°-60°	6250.0	77.3
0°-90°	8085.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8085.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2779	2779	2779	2779	2779	
5°	2753	2771	2769	2765	2774	262
15°	2637	2663	2675	2678	2691	744
25°	2412	2445	2468	2484	2499	1112
35°	2113	2146	2190	2221	2237	1322
45°	1762	1798	1854	1898	1920	1359
55°	1364	1398	1466	1525	1551	1218
65°	929	964	1042	1111	1138	919
75°	471	515	595	666	697	500
85°	84	118	176	196	209	109
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2779.3	2779.3	2779.3	2779.3	2779.3
2.5°	2768.9	2782.8	2779.3	2767.2	2772.4
5°	2753.3	2770.6	2768.9	2765.4	2774.1
7.5°	2734.1	2753.3	2755.0	2755.0	2765.4
10°	2713.3	2732.4	2735.9	2730.6	2734.1
12.5°	2678.5	2701.1	2708.0	2708.0	2713.3
15°	2636.7	2662.8	2675.0	2678.5	2690.6
17.5°	2591.5	2619.3	2635.0	2643.7	2654.1
20°	2537.6	2567.2	2584.5	2595.0	2607.2
22.5°	2476.7	2509.8	2528.9	2539.3	2553.2
25°	2412.4	2445.4	2468.0	2483.7	2499.3
27.5°	2344.5	2375.8	2407.1	2426.3	2440.2
30°	2271.5	2304.5	2337.6	2361.9	2375.8
32.5°	2193.2	2228.0	2266.3	2292.3	2308.0
35°	2113.2	2146.3	2189.7	2221.0	2236.7
37.5°	2031.5	2066.2	2111.5	2144.5	2163.6
40°	1944.5	1981.0	2029.7	2066.2	2085.4
42.5°	1854.1	1888.8	1942.8	1984.5	2007.1
45°	1761.9	1798.4	1854.1	1897.5	1920.1
47.5°	1666.2	1701.0	1761.9	1812.3	1831.4
50°	1567.1	1600.1	1664.5	1718.4	1741.0
52.5°	1466.2	1501.0	1565.3	1622.7	1647.1
55°	1363.6	1398.4	1466.2	1525.3	1551.4
57.5°	1259.2	1294.0	1363.6	1424.5	1455.8
60°	1151.4	1186.2	1259.2	1321.8	1353.1
62.5°	1040.1	1076.6	1151.4	1215.7	1248.8
65°	928.8	963.6	1041.8	1111.4	1137.5
67.5°	817.5	852.2	928.8	998.3	1029.6
70°	702.7	742.7	817.5	890.5	918.3
72.5°	582.7	627.9	702.7	779.2	807.0
75°	471.3	514.8	594.8	666.1	697.4
77.5°	361.8	408.7	483.5	556.6	587.9
80°	257.4	302.6	379.2	448.7	481.8
82.5°	163.5	203.5	280.0	342.6	367.0
85°	83.5	118.3	175.7	196.5	208.7
87.5°	24.3	41.7	62.6	78.3	87.0
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	16.5	18.2	16.9	18.5	18.8	17.3	18.9	17.6	19.2	19.6
	3H	18.3	19.8	18.7	20.1	20.5	19.3	20.9	19.7	21.2	21.5
	4H	18.9	20.3	19.3	20.7	21.1	20.2	21.6	20.6	22.0	22.4
	6H	19.3	20.6	19.7	21.0	21.4	21.0	22.3	21.4	22.6	23.0
	8H	19.4	20.7	19.9	21.1	21.5	21.3	22.5	21.7	22.9	23.3
	12H	19.5	20.7	19.9	21.1	21.5	21.4	22.7	21.9	23.0	23.5
4H	2H	17.3	18.7	17.7	19.1	19.4	17.9	19.3	18.3	19.6	20.0
	3H	19.3	20.5	19.7	20.9	21.3	20.2	21.4	20.6	21.8	22.2
	4H	20.0	21.1	20.5	21.5	22.0	21.2	22.3	21.6	22.7	23.1
	6H	20.6	21.5	21.0	22.0	22.4	22.1	23.1	22.6	23.5	24.0
	8H	20.7	21.6	21.2	22.0	22.5	22.5	23.4	22.9	23.8	24.3
	12H	20.8	21.6	21.3	22.1	22.5	22.7	23.5	23.2	24.0	24.5
8H	4H	20.5	21.4	20.9	21.8	22.3	21.5	22.4	22.0	22.8	23.3
	6H	21.1	21.9	21.6	22.4	22.8	22.6	23.3	23.1	23.8	24.3
	8H	21.4	22.0	21.9	22.5	23.0	23.0	23.7	23.5	24.2	24.7
	12H	21.5	22.1	22.0	22.6	23.1	23.4	24.0	23.9	24.5	25.0
12H	4H	20.6	21.4	21.0	21.8	22.3	21.5	22.3	22.0	22.8	23.3
	6H	21.3	22.0	21.8	22.4	22.9	22.6	23.3	23.1	23.8	24.3
	8H	21.5	22.1	22.0	22.6	23.2	23.1	23.7	23.7	24.2	24.8

(END OF REPORT)