

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: P1590034

Luminaire Tested: 24CZSP-SB-80-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590034
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-L835-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 8000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

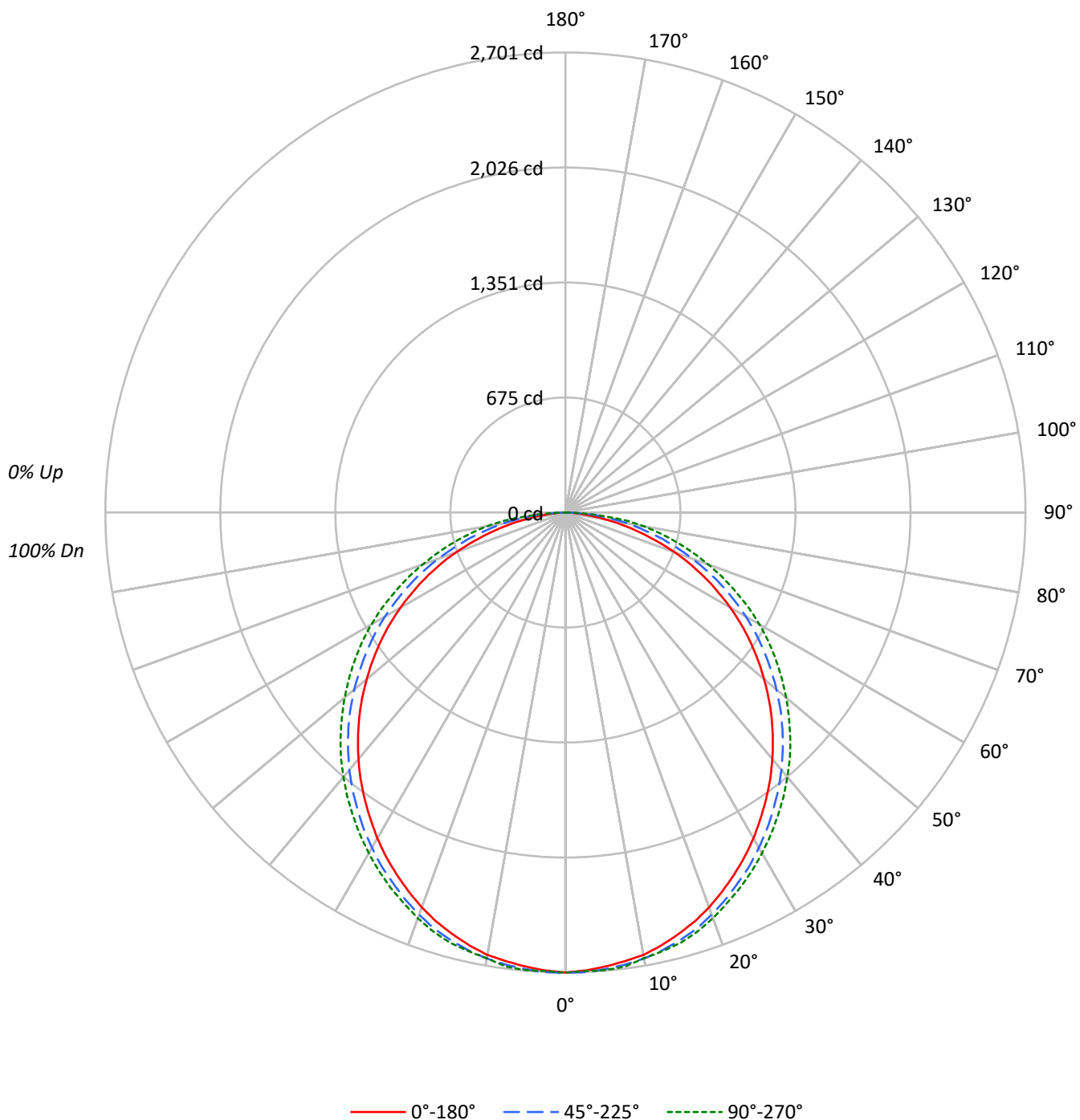
Lumens per Lamp: N/A
Luminaire Lumens: 7858.0 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	94	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	45	39		50
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4137	4137	4137
5°	4114	4138	4145
10°	4101	4135	4133
15°	4064	4123	4147
20°	4020	4094	4130
25°	3962	4054	4105
30°	3904	4018	4084
35°	3840	3979	4065
40°	3779	3944	4052
45°	3709	3903	4042
50°	3629	3855	4032
55°	3539	3805	4027
60°	3428	3749	4029
65°	3272	3670	4006
70°	3058	3558	3997
75°	2711	3421	4012
80°	2207	3250	4130
85°	1425	3000	3566

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4186 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.6	3.3
10°-20°	732.0	9.3
20°-30°	1103.7	14.0
30°-40°	1328.1	16.9
40°-50°	1385.3	17.6
50°-60°	1269.8	16.2
60°-70°	997.1	12.7
70°-80°	606.8	7.7
80°-90°	179.5	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°	2091.4	26.6
0°-40°	3419.5	43.5
0°-60°	6074.5	77.3
0°-90°	7858.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7858.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2701	2701	2701	2701	2701	
5°	2676	2693	2691	2688	2696	254
15°	2563	2588	2600	2603	2615	723
25°	2345	2377	2399	2414	2429	1080
35°	2054	2086	2128	2159	2174	1285
45°	1712	1748	1802	1844	1866	1320
55°	1325	1359	1425	1482	1508	1184
65°	903	936	1013	1080	1106	893
75°	458	500	578	647	678	486
85°	81	115	171	191	203	106
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2701.3	2701.3	2701.3	2701.3	2701.3
2.5°	2691.2	2704.7	2701.3	2689.5	2694.5
5°	2676.0	2692.9	2691.2	2687.8	2696.2
7.5°	2657.4	2676.0	2677.6	2677.6	2687.8
10°	2637.1	2655.7	2659.0	2654.0	2657.4
12.5°	2603.3	2625.2	2632.0	2632.0	2637.1
15°	2562.7	2588.0	2599.9	2603.3	2615.1
17.5°	2518.7	2545.8	2561.0	2569.5	2579.6
20°	2466.3	2495.1	2512.0	2522.1	2534.0
22.5°	2407.2	2439.3	2457.9	2468.0	2481.6
25°	2344.6	2376.7	2398.7	2413.9	2429.1
27.5°	2278.7	2309.1	2339.6	2358.2	2371.7
30°	2207.7	2239.8	2271.9	2295.6	2309.1
32.5°	2131.6	2165.4	2202.6	2228.0	2243.2
35°	2053.9	2086.0	2128.3	2158.7	2173.9
37.5°	1974.4	2008.2	2052.2	2084.3	2102.9
40°	1889.9	1925.4	1972.7	2008.2	2026.8
42.5°	1802.0	1835.8	1888.2	1928.8	1950.8
45°	1712.4	1747.9	1802.0	1844.3	1866.2
47.5°	1619.4	1653.2	1712.4	1761.4	1780.0
50°	1523.1	1555.2	1617.7	1670.1	1692.1
52.5°	1425.0	1458.8	1521.4	1577.2	1600.8
55°	1325.3	1359.1	1425.0	1482.5	1507.9
57.5°	1223.9	1257.7	1325.3	1384.5	1414.9
60°	1119.1	1152.9	1223.9	1284.7	1315.2
62.5°	1010.9	1046.4	1119.1	1181.6	1213.7
65°	902.7	936.5	1012.6	1080.2	1105.5
67.5°	794.5	828.3	902.7	970.3	1000.7
70°	682.9	721.8	794.5	865.5	892.5
72.5°	566.3	610.2	682.9	757.3	784.4
75°	458.1	500.4	578.1	647.4	677.9
77.5°	351.6	397.3	469.9	540.9	571.4
80°	250.2	294.1	368.5	436.1	468.2
82.5°	158.9	197.8	272.2	333.0	356.7
85°	81.1	114.9	170.7	191.0	202.9
87.5°	23.7	40.6	60.9	76.1	84.5
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	16.4	18.1	16.8	18.4	18.7	17.2	18.8	17.5	19.1	19.5
	3H	18.2	19.7	18.6	20.0	20.4	19.2	20.8	19.6	21.1	21.4
	4H	18.8	20.2	19.2	20.6	21.0	20.1	21.5	20.5	21.9	22.3
	6H	19.2	20.5	19.6	20.9	21.3	20.9	22.2	21.3	22.5	22.9
	8H	19.3	20.6	19.8	21.0	21.4	21.2	22.4	21.6	22.8	23.2
	12H	19.4	20.6	19.8	21.0	21.4	21.3	22.6	21.8	22.9	23.4
4H	2H	17.2	18.6	17.6	19.0	19.3	17.8	19.2	18.2	19.5	19.9
	3H	19.2	20.4	19.6	20.8	21.2	20.1	21.3	20.5	21.7	22.1
	4H	19.9	21.0	20.4	21.4	21.9	21.1	22.2	21.5	22.6	23.0
	6H	20.5	21.4	20.9	21.9	22.3	22.0	23.0	22.5	23.4	23.9
	8H	20.6	21.5	21.1	21.9	22.4	22.4	23.3	22.8	23.7	24.2
	12H	20.7	21.5	21.2	22.0	22.4	22.6	23.4	23.1	23.9	24.4
8H	4H	20.4	21.3	20.8	21.7	22.2	21.4	22.3	21.9	22.7	23.2
	6H	21.0	21.8	21.5	22.3	22.7	22.5	23.2	23.0	23.7	24.2
	8H	21.3	21.9	21.8	22.4	22.9	22.9	23.6	23.4	24.1	24.6
	12H	21.4	22.0	21.9	22.5	23.0	23.3	23.9	23.8	24.4	24.9
12H	4H	20.5	21.3	20.9	21.7	22.2	21.4	22.2	21.9	22.7	23.2
	6H	21.2	21.9	21.7	22.3	22.8	22.5	23.2	23.0	23.7	24.2
	8H	21.4	22.0	22.0	22.5	23.1	23.0	23.6	23.6	24.1	24.7

(END OF REPORT)