

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: P1590045

Luminaire Tested: 24CZSP-SB-80-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590045
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-L935
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 8000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

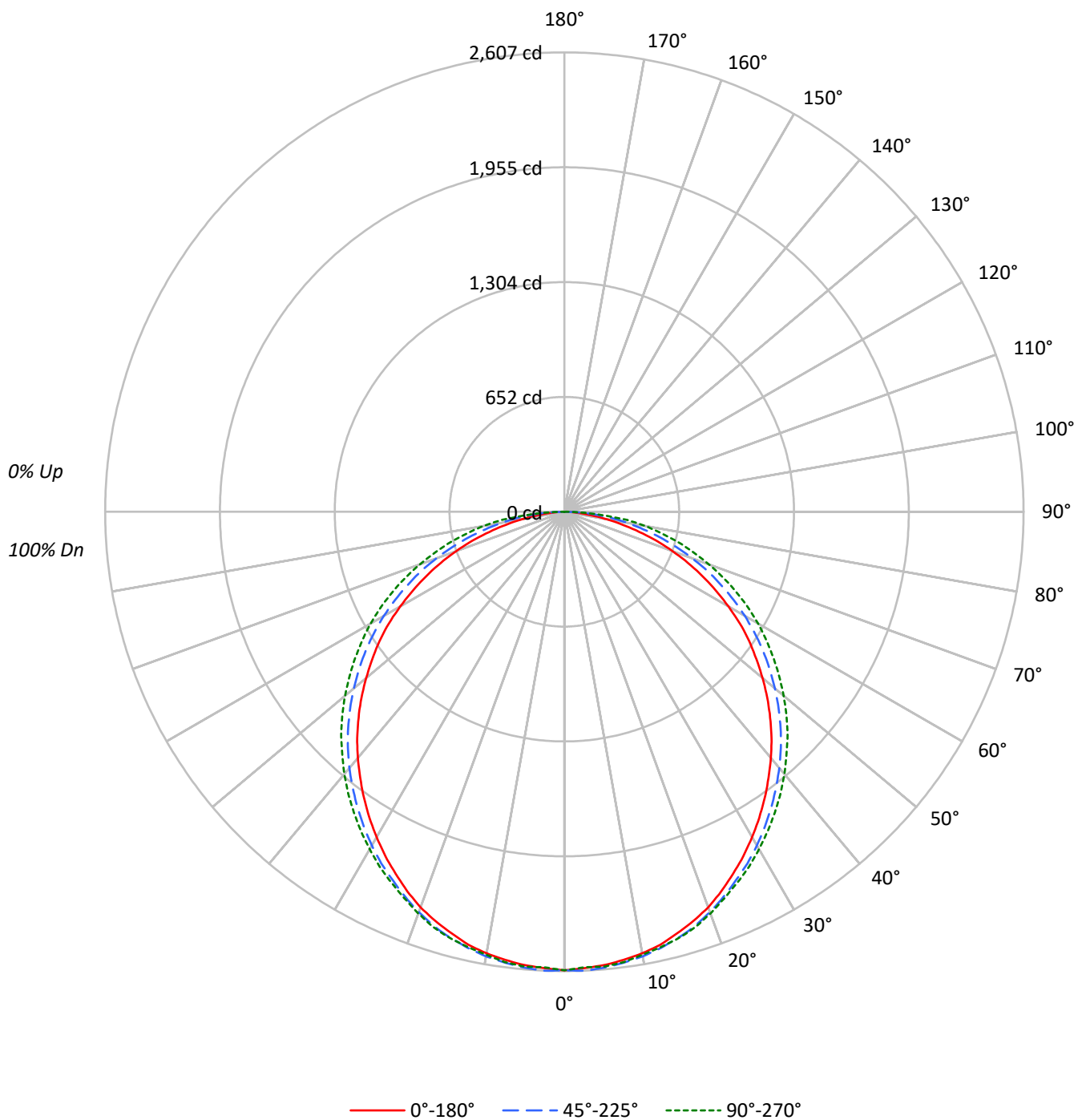
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7594.0 lumens
Efficiency: N/A
Efficacy: 121.1 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			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	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°	3986	3986	3986
5°	3971	3993	3983
10°	3957	3985	3969
15°	3927	3968	3973
20°	3893	3940	3953
25°	3830	3898	3925
30°	3769	3866	3909
35°	3709	3829	3895
40°	3647	3795	3885
45°	3579	3760	3882
50°	3500	3719	3872
55°	3421	3678	3871
60°	3294	3624	3894
65°	3140	3553	3897
70°	2930	3455	3908
75°	2606	3329	3976
80°	2141	3189	4125
85°	1413	2995	3729

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4224 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.2	3.2
10°-20°	704.6	9.3
20°-30°	1062.0	14.0
30°-40°	1278.9	16.8
40°-50°	1336.1	17.6
50°-60°	1227.5	16.2
60°-70°	966.6	12.7
70°-80°	592.6	7.8
80°-90°	179.7	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°	2012.7	26.5
0°-40°	3291.5	43.3
0°-60°	5855.1	77.1
0°-90°	7594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7594.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2602	2602	2602	2602	2602	
5°	2583	2588	2597	2594	2591	245
15°	2477	2486	2502	2512	2506	699
25°	2266	2281	2306	2330	2322	1045
35°	1983	2009	2048	2085	2083	1241
45°	1652	1688	1736	1784	1792	1274
55°	1281	1318	1377	1437	1450	1143
65°	866	911	980	1046	1075	856
75°	440	492	562	630	672	468
85°	80	119	170	190	212	103
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2602.2	2602.2	2602.2	2602.2	2602.2
2.5°	2592.5	2598.9	2607.0	2594.1	2587.7
5°	2582.9	2587.7	2597.3	2594.1	2590.9
7.5°	2565.2	2568.4	2581.3	2581.3	2578.1
10°	2544.3	2550.7	2562.0	2560.4	2552.3
12.5°	2517.0	2521.8	2534.7	2534.7	2529.8
15°	2476.8	2486.4	2502.5	2512.2	2505.7
17.5°	2435.0	2444.6	2465.5	2475.2	2472.0
20°	2388.4	2396.4	2417.3	2431.8	2425.4
22.5°	2330.5	2340.2	2364.3	2380.4	2373.9
25°	2266.2	2280.7	2306.4	2330.5	2322.5
27.5°	2202.0	2218.0	2250.2	2274.3	2271.1
30°	2131.2	2152.1	2185.9	2216.4	2210.0
32.5°	2058.9	2083.0	2118.4	2150.5	2148.9
35°	1983.4	2009.1	2047.7	2084.6	2083.0
37.5°	1903.0	1933.5	1973.7	2013.9	2015.5
40°	1824.2	1853.2	1898.2	1941.6	1943.2
42.5°	1740.7	1771.2	1819.4	1864.4	1866.0
45°	1652.3	1687.6	1735.8	1784.1	1792.1
47.5°	1562.3	1599.2	1649.1	1700.5	1710.1
50°	1469.0	1507.6	1560.7	1615.3	1624.9
52.5°	1374.2	1414.4	1469.0	1523.7	1538.2
55°	1281.0	1318.0	1377.4	1436.9	1449.8
57.5°	1182.9	1216.7	1281.0	1343.7	1359.7
60°	1075.3	1117.0	1182.9	1245.6	1271.3
62.5°	970.8	1015.8	1083.3	1146.0	1174.9
65°	866.3	911.3	980.4	1046.3	1075.3
67.5°	760.2	806.8	880.8	943.5	975.6
70°	654.2	700.8	771.5	839.0	872.7
72.5°	548.1	597.9	667.0	736.1	769.9
75°	440.4	491.8	562.5	630.0	671.8
77.5°	339.1	389.0	459.7	528.8	564.1
80°	242.7	292.5	361.6	430.7	467.7
82.5°	154.3	200.9	268.4	326.3	360.0
85°	80.4	118.9	170.4	189.7	212.2
87.5°	24.1	46.6	65.9	73.9	91.6
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	16.3	18.0	16.7	18.3	18.6	17.1	18.7	17.4	19.0	19.4
	3H	18.1	19.6	18.5	19.9	20.3	19.2	20.7	19.5	21.0	21.4
	4H	18.7	20.1	19.1	20.5	20.8	20.0	21.5	20.4	21.8	22.2
	6H	19.1	20.4	19.5	20.8	21.2	20.8	22.1	21.2	22.5	22.9
	8H	19.2	20.5	19.6	20.9	21.3	21.1	22.4	21.5	22.8	23.2
	12H	19.3	20.5	19.7	20.9	21.3	21.3	22.5	21.8	22.9	23.4
4H	2H	17.1	18.5	17.5	18.9	19.2	17.7	19.1	18.1	19.4	19.8
	3H	19.1	20.3	19.5	20.7	21.1	20.0	21.2	20.4	21.6	22.0
	4H	19.8	20.9	20.3	21.3	21.8	21.0	22.1	21.5	22.5	23.0
	6H	20.4	21.3	20.8	21.8	22.2	22.0	22.9	22.4	23.4	23.8
	8H	20.5	21.4	21.0	21.9	22.3	22.3	23.2	22.8	23.7	24.1
	12H	20.6	21.4	21.1	21.9	22.4	22.6	23.4	23.1	23.9	24.4
8H	4H	20.3	21.2	20.7	21.6	22.1	21.3	22.2	21.8	22.7	23.1
	6H	21.0	21.7	21.5	22.2	22.7	22.4	23.2	22.9	23.6	24.1
	8H	21.2	21.9	21.7	22.4	22.8	22.9	23.6	23.4	24.1	24.6
	12H	21.3	21.9	21.8	22.4	23.0	23.3	23.9	23.8	24.4	24.9
12H	4H	20.4	21.2	20.8	21.6	22.1	21.4	22.2	21.8	22.6	23.1
	6H	21.1	21.8	21.6	22.2	22.8	22.5	23.2	23.0	23.6	24.1
	8H	21.4	22.0	21.9	22.5	23.0	23.0	23.6	23.5	24.1	24.7

(END OF REPORT)