

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: P1590033

Luminaire Tested: 24CZSP-SB-80-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590033
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-L830
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 8000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

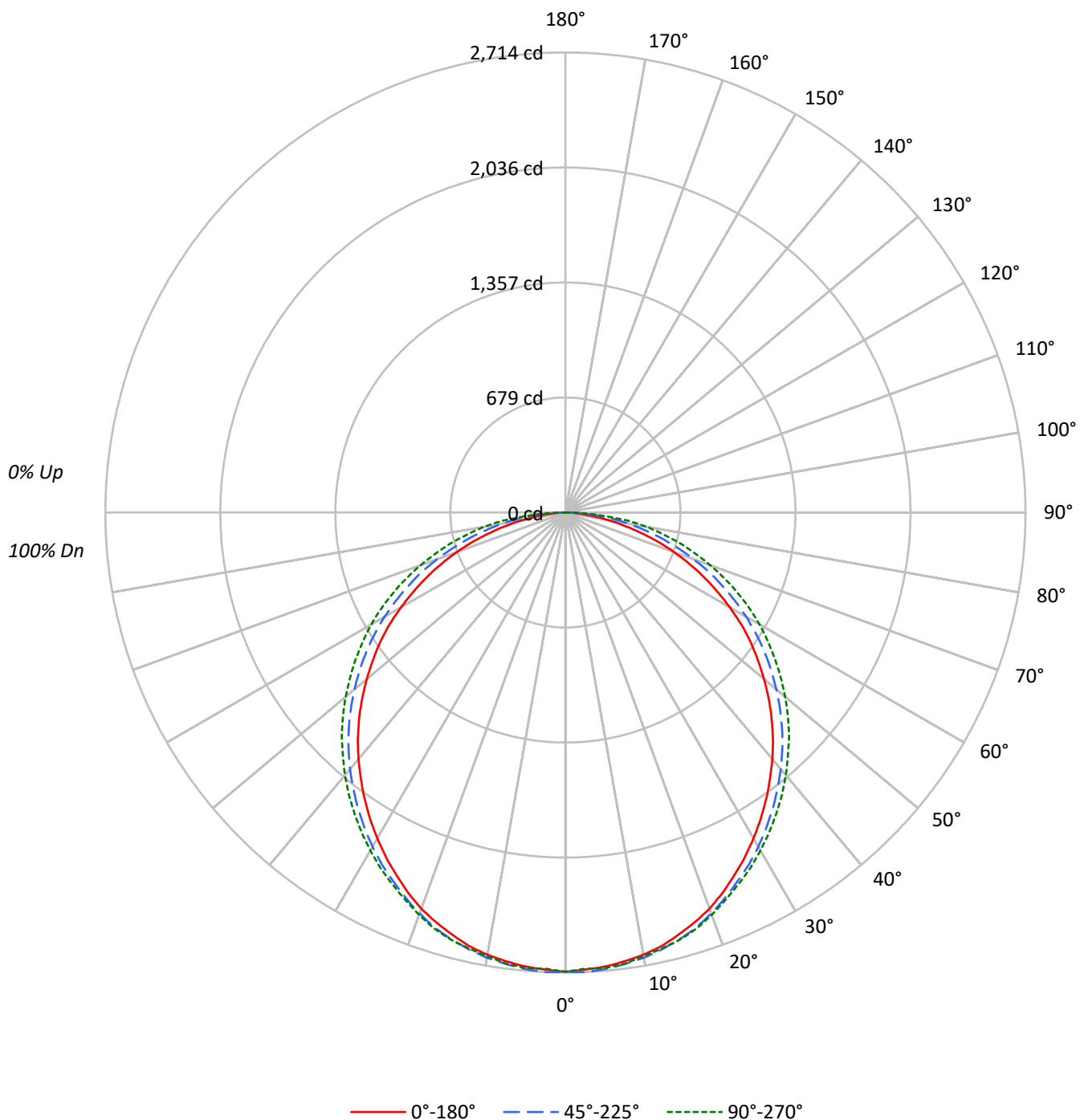
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7906.0 lumens
Efficiency: N/A
Efficacy: 126.1 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°	4149	4149	4149
5°	4134	4157	4147
10°	4120	4148	4133
15°	4089	4131	4137
20°	4053	4102	4116
25°	3987	4058	4086
30°	3924	4025	4069
35°	3861	3986	4055
40°	3797	3951	4045
45°	3726	3914	4041
50°	3644	3872	4031
55°	3561	3829	4030
60°	3429	3772	4055
65°	3269	3699	4057
70°	3050	3597	4069
75°	2713	3466	4139
80°	2229	3321	4295
85°	1471	3118	3882

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4398 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.3	3.2
10°-20°	733.5	9.3
20°-30°	1105.6	14.0
30°-40°	1331.4	16.8
40°-50°	1391.0	17.6
50°-60°	1277.9	16.2
60°-70°	1006.3	12.7
70°-80°	617.0	7.8
80°-90°	187.1	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°	2095.4	26.5
0°-40°	3426.8	43.3
0°-60°	6095.6	77.1
0°-90°	7906.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7906.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2709	2709	2709	2709	2709	
5°	2689	2694	2704	2701	2697	255
15°	2579	2589	2605	2615	2609	728
25°	2359	2374	2401	2426	2418	1088
35°	2065	2092	2132	2170	2169	1291
45°	1720	1757	1807	1857	1866	1327
55°	1334	1372	1434	1496	1509	1190
65°	902	949	1021	1089	1119	892
75°	458	512	586	656	699	487
85°	84	124	177	197	221	108
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2709.1	2709.1	2709.1	2709.1	2709.1
2.5°	2699.0	2705.7	2714.1	2700.7	2694.0
5°	2689.0	2694.0	2704.0	2700.7	2697.4
7.5°	2670.6	2673.9	2687.3	2687.3	2684.0
10°	2648.8	2655.5	2667.2	2665.6	2657.2
12.5°	2620.4	2625.4	2638.8	2638.8	2633.8
15°	2578.6	2588.6	2605.3	2615.4	2608.7
17.5°	2535.0	2545.1	2566.8	2576.9	2573.5
20°	2486.5	2494.9	2516.6	2531.7	2525.0
22.5°	2426.3	2436.3	2461.4	2478.2	2471.5
25°	2359.4	2374.4	2401.2	2426.3	2417.9
27.5°	2292.4	2309.2	2342.6	2367.7	2364.4
30°	2218.8	2240.5	2275.7	2307.5	2300.8
32.5°	2143.5	2168.6	2205.4	2238.9	2237.2
35°	2064.8	2091.6	2131.8	2170.3	2168.6
37.5°	1981.2	2013.0	2054.8	2096.6	2098.3
40°	1899.2	1929.3	1976.2	2021.3	2023.0
42.5°	1812.2	1844.0	1894.2	1941.0	1942.7
45°	1720.2	1757.0	1807.2	1857.4	1865.7
47.5°	1626.4	1664.9	1716.8	1770.3	1780.4
50°	1529.4	1569.6	1624.8	1681.7	1691.7
52.5°	1430.7	1472.5	1529.4	1586.3	1601.3
55°	1333.6	1372.1	1434.0	1495.9	1509.3
57.5°	1231.5	1266.7	1333.6	1398.9	1415.6
60°	1119.4	1162.9	1231.5	1296.8	1323.6
62.5°	1010.7	1057.5	1127.8	1193.1	1223.2
65°	901.9	948.8	1020.7	1089.3	1119.4
67.5°	791.5	840.0	917.0	982.2	1015.7
70°	681.0	729.6	803.2	873.5	908.6
72.5°	570.6	622.5	694.4	766.4	801.5
75°	458.5	512.0	585.7	655.9	699.4
77.5°	353.1	404.9	478.6	550.5	587.3
80°	252.7	304.5	376.5	448.4	486.9
82.5°	160.6	209.2	279.4	339.7	374.8
85°	83.7	123.8	177.4	197.4	220.9
87.5°	25.1	48.5	68.6	77.0	95.4
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	18.1	16.8	18.4	18.7	17.2	18.9	17.6	19.2	19.5
	3H	18.2	19.7	18.6	20.1	20.4	19.3	20.8	19.7	21.1	21.5
	4H	18.8	20.3	19.2	20.6	21.0	20.2	21.6	20.6	22.0	22.3
	6H	19.3	20.6	19.7	20.9	21.3	21.0	22.3	21.4	22.6	23.0
	8H	19.4	20.6	19.8	21.0	21.4	21.3	22.5	21.7	22.9	23.3
	12H	19.4	20.6	19.8	21.0	21.4	21.5	22.7	21.9	23.1	23.5
4H	2H	17.2	18.7	17.6	19.0	19.4	17.8	19.2	18.2	19.6	20.0
	3H	19.2	20.4	19.6	20.8	21.2	20.1	21.3	20.5	21.7	22.1
	4H	20.0	21.1	20.4	21.5	21.9	21.2	22.3	21.6	22.7	23.1
	6H	20.5	21.5	21.0	21.9	22.4	22.1	23.1	22.6	23.5	23.9
	8H	20.7	21.6	21.1	22.0	22.5	22.5	23.4	22.9	23.8	24.3
	12H	20.7	21.5	21.2	22.0	22.5	22.8	23.6	23.2	24.0	24.5
8H	4H	20.4	21.3	20.9	21.8	22.2	21.5	22.4	21.9	22.8	23.3
	6H	21.1	21.8	21.6	22.3	22.8	22.6	23.3	23.0	23.8	24.3
	8H	21.3	22.0	21.8	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	25.1
12H	4H	20.5	21.3	21.0	21.8	22.3	21.5	22.3	22.0	22.8	23.2
	6H	21.2	21.9	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	23.2	23.8	23.7	24.2	24.8

(END OF REPORT)