

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: P1590001

Luminaire Tested: 24CZSP-SB-75-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590001
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-75-L850
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 7500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

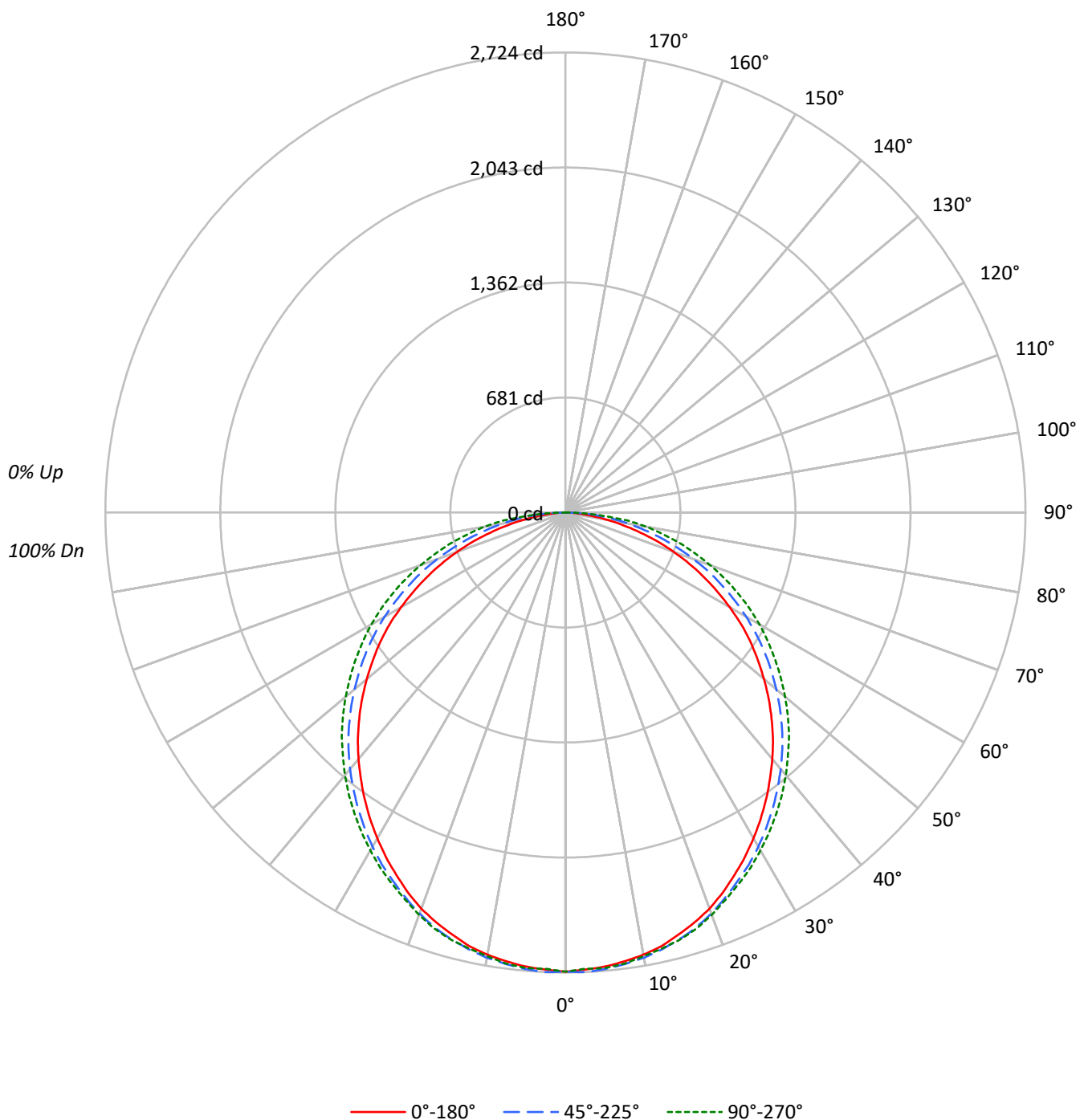
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7935.0 lumens
Efficiency: N/A
Efficacy: 133.4 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): 59.5
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

TEST NUMBER: P1590001
CATALOG NUMBER: 24CZSP-SB-75-L850

Luminous Intensity Polar Plot



TEST NUMBER: P1590001

CATALOG NUMBER: 24CZSP-SB-75-L850

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°	4164	4164	4164
5°	4149	4173	4162
10°	4135	4163	4148
15°	4104	4146	4152
20°	4068	4117	4131
25°	4002	4073	4101
30°	3938	4039	4084
35°	3875	4001	4070
40°	3811	3966	4060
45°	3740	3929	4056
50°	3658	3886	4046
55°	3574	3843	4045
60°	3442	3786	4069
65°	3281	3713	4072
70°	3061	3610	4084
75°	2723	3478	4154
80°	2237	3333	4310
85°	1476	3128	3896

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4414 cd/sqm

TEST NUMBER: P1590001

CATALOG NUMBER: 24CZSP-SB-75-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.2	3.2
10°-20°	736.2	9.3
20°-30°	1109.6	14.0
30°-40°	1336.3	16.8
40°-50°	1396.1	17.6
50°-60°	1282.6	16.2
60°-70°	1010.0	12.7
70°-80°	619.2	7.8
80°-90°	187.8	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°	2103.0	26.5
0°-40°	3439.3	43.3
0°-60°	6118.0	77.1
0°-90°	7935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7935.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2719	2719	2719	2719	2719	
5°	2699	2704	2714	2711	2707	256
15°	2588	2598	2615	2625	2618	730
25°	2368	2383	2410	2435	2427	1092
35°	2072	2099	2140	2178	2176	1296
45°	1726	1763	1814	1864	1873	1332
55°	1338	1377	1439	1501	1515	1194
65°	905	952	1024	1093	1124	895
75°	460	514	588	658	702	489
85°	84	124	178	198	222	108
90°	0	0	0	0	0	

TEST NUMBER: P1590001

CATALOG NUMBER: 24CZSP-SB-75-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2719.0	2719.0	2719.0	2719.0	2719.0
2.5°	2708.9	2715.6	2724.0	2710.6	2703.9
5°	2698.9	2703.9	2714.0	2710.6	2707.3
7.5°	2680.4	2683.7	2697.2	2697.2	2693.8
10°	2658.5	2665.3	2677.0	2675.3	2666.9
12.5°	2630.0	2635.0	2648.5	2648.5	2643.4
15°	2588.0	2598.1	2614.9	2625.0	2618.2
17.5°	2544.3	2554.4	2576.3	2586.3	2583.0
20°	2495.6	2504.0	2525.9	2541.0	2534.3
22.5°	2435.2	2445.3	2470.5	2487.2	2480.5
25°	2368.0	2383.1	2410.0	2435.2	2426.8
27.5°	2300.8	2317.6	2351.2	2376.4	2373.0
30°	2226.9	2248.8	2284.0	2315.9	2309.2
32.5°	2151.4	2176.5	2213.5	2247.1	2245.4
35°	2072.4	2099.3	2139.6	2178.2	2176.5
37.5°	1988.5	2020.4	2062.3	2104.3	2106.0
40°	1906.2	1936.4	1983.4	2028.8	2030.4
42.5°	1818.8	1850.7	1901.1	1948.1	1949.8
45°	1726.5	1763.4	1813.8	1864.2	1872.6
47.5°	1632.4	1671.0	1723.1	1776.8	1786.9
50°	1535.0	1575.3	1630.7	1687.8	1697.9
52.5°	1435.9	1477.9	1535.0	1592.1	1607.2
55°	1338.5	1377.1	1439.3	1501.4	1514.9
57.5°	1236.1	1271.3	1338.5	1404.0	1420.8
60°	1123.5	1167.2	1236.1	1301.6	1328.4
62.5°	1014.4	1061.4	1131.9	1197.4	1227.7
65°	905.2	952.2	1024.5	1093.3	1123.5
67.5°	794.4	843.1	920.3	985.8	1019.4
70°	683.5	732.2	806.1	876.7	911.9
72.5°	572.7	624.8	697.0	769.2	804.4
75°	460.2	513.9	587.8	658.3	702.0
77.5°	354.4	406.4	480.3	552.5	589.5
80°	253.6	305.7	377.9	450.1	488.7
82.5°	161.2	209.9	280.5	340.9	376.2
85°	84.0	124.3	178.0	198.2	221.7
87.5°	25.2	48.7	68.9	77.3	95.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1590001

CATALOG NUMBER: 24CZSP-SB-75-L850

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	18.8	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	18.9	20.3	19.3	20.6	21.0	20.2	21.6	20.6	22.0	22.3
	6H	19.3	20.6	19.7	21.0	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	19.9	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	20.6	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	24.0
	8H	20.7	21.6	21.1	22.0	22.5	22.5	23.4	23.0	23.8	24.3
	12H	20.8	21.6	21.2	22.0	22.5	22.8	23.6	23.3	24.1	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	21.9	21.6	22.3	22.8	22.6	23.3	23.1	23.8	24.3
	8H	21.3	22.0	21.8	22.5	23.0	23.1	23.7	23.6	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	23.3
	6H	21.3	21.9	21.8	22.4	22.9	22.6	23.3	23.2	23.8	24.3
	8H	21.5	22.1	22.0	22.6	23.2	23.2	23.8	23.7	24.3	24.8

(END OF REPORT)