

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P1589741

Luminaire Tested: 24CZSP-SB-42-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589741
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-42-L850
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 3500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

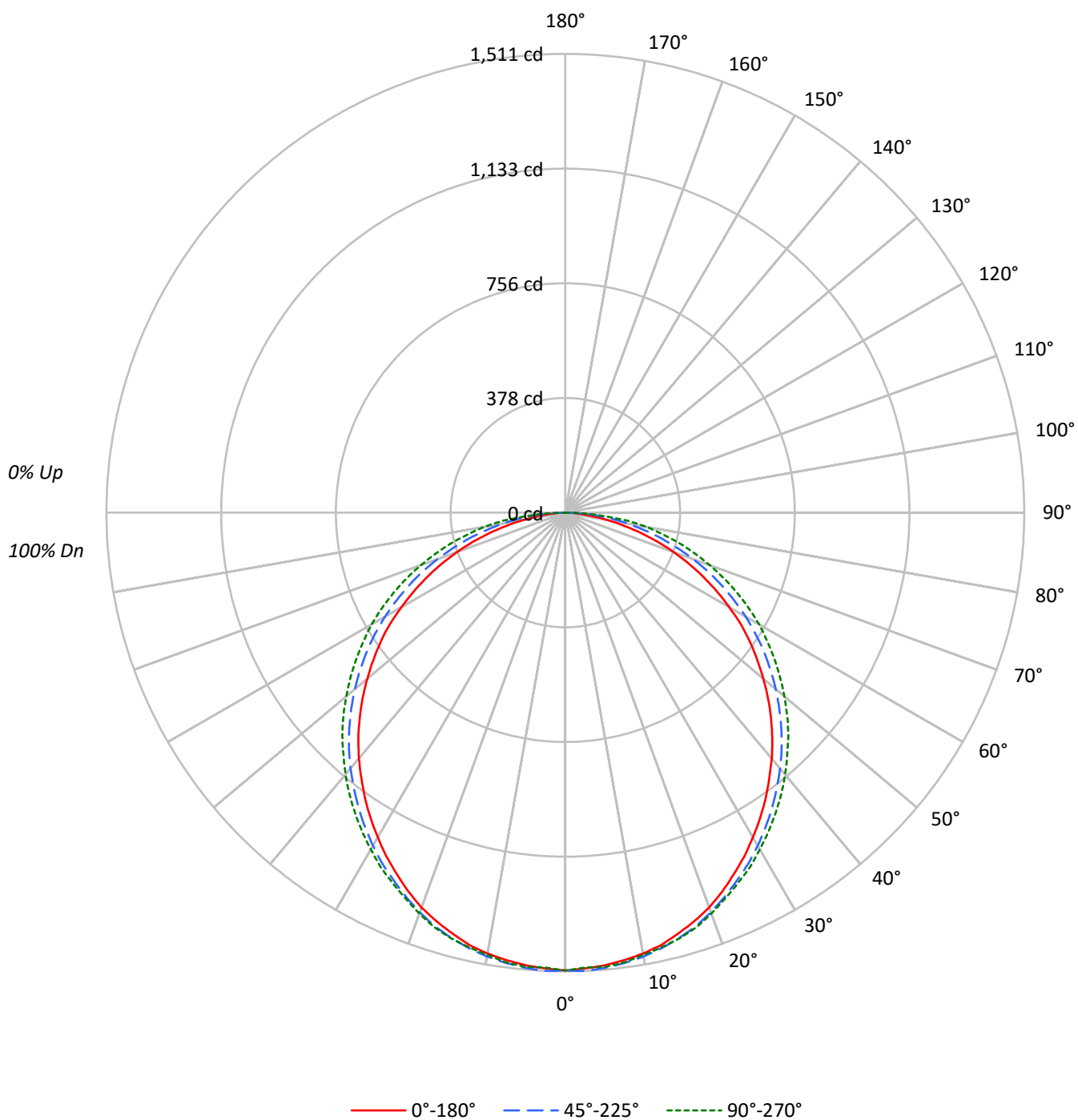
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4401.0 lumens
Efficiency: N/A
Efficacy: 153.3 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): 28.7
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: 24 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	93	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	63	87	77	69	63	74	67	62		71	65	61		69
4	82	69	60	54	79	68	60	53	66	58	52		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	44	39		50
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2310	2310	2310
5°	2301	2314	2309
10°	2293	2309	2301
15°	2276	2300	2303
20°	2256	2283	2291
25°	2220	2259	2275
30°	2184	2240	2265
35°	2149	2219	2257
40°	2114	2200	2252
45°	2074	2179	2250
50°	2029	2155	2244
55°	1982	2132	2244
60°	1909	2100	2257
65°	1820	2059	2259
70°	1698	2002	2265
75°	1510	1929	2304
80°	1241	1849	2391
85°	819	1734	2162

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2448 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.7	3.2
10°-20°	408.3	9.3
20°-30°	615.4	14.0
30°-40°	741.1	16.8
40°-50°	774.3	17.6
50°-60°	711.4	16.2
60°-70°	560.2	12.7
70°-80°	343.4	7.8
80°-90°	104.1	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°	1166.4	26.5
0°-40°	1907.6	43.3
0°-60°	3393.2	77.1
0°-90°	4401.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4401.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1508	1508	1508	1508	1508	
5°	1497	1500	1505	1503	1502	142
15°	1435	1441	1450	1456	1452	405
25°	1313	1322	1337	1351	1346	605
35°	1149	1164	1187	1208	1207	719
45°	958	978	1006	1034	1039	739
55°	742	764	798	833	840	662
65°	502	528	568	606	623	496
75°	255	285	326	365	389	271
85°	47	69	99	110	123	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1508.0	1508.0	1508.0	1508.0	1508.0
2.5°	1502.5	1506.2	1510.8	1503.4	1499.7
5°	1496.9	1499.7	1505.3	1503.4	1501.5
7.5°	1486.6	1488.5	1495.9	1495.9	1494.1
10°	1474.5	1478.2	1484.8	1483.8	1479.2
12.5°	1458.7	1461.5	1468.9	1468.9	1466.1
15°	1435.4	1441.0	1450.3	1455.9	1452.2
17.5°	1411.2	1416.8	1428.9	1434.5	1432.6
20°	1384.2	1388.8	1400.9	1409.3	1405.6
22.5°	1350.6	1356.2	1370.2	1379.5	1375.8
25°	1313.4	1321.8	1336.7	1350.6	1346.0
27.5°	1276.1	1285.4	1304.1	1318.0	1316.2
30°	1235.1	1247.2	1266.8	1284.5	1280.8
32.5°	1193.2	1207.2	1227.7	1246.3	1245.4
35°	1149.4	1164.3	1186.7	1208.1	1207.2
37.5°	1102.9	1120.6	1143.8	1167.1	1168.1
40°	1057.2	1074.0	1100.1	1125.2	1126.1
42.5°	1008.8	1026.5	1054.4	1080.5	1081.4
45°	957.5	978.0	1006.0	1033.9	1038.6
47.5°	905.4	926.8	955.7	985.5	991.1
50°	851.4	873.7	904.5	936.1	941.7
52.5°	796.4	819.7	851.4	883.0	891.4
55°	742.4	763.8	798.3	832.7	840.2
57.5°	685.6	705.1	742.4	778.7	788.0
60°	623.2	647.4	685.6	721.9	736.8
62.5°	562.6	588.7	627.8	664.1	680.9
65°	502.1	528.1	568.2	606.4	623.2
67.5°	440.6	467.6	510.4	546.8	565.4
70°	379.1	406.1	447.1	486.2	505.8
72.5°	317.6	346.5	386.6	426.6	446.2
75°	255.2	285.0	326.0	365.1	389.4
77.5°	196.5	225.4	266.4	306.5	326.9
80°	140.7	169.5	209.6	249.6	271.1
82.5°	89.4	116.4	155.6	189.1	208.6
85°	46.6	68.9	98.7	109.9	123.0
87.5°	14.0	27.0	38.2	42.8	53.1
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	14.42	16.08	14.79	16.40	16.71	15.17	16.83	15.53	17.14	17.46
	3H	16.18	17.69	16.56	18.02	18.38	17.26	18.77	17.64	19.10	19.46
	4H	16.81	18.23	17.21	18.58	18.95	18.15	19.57	18.55	19.92	20.29
	6H	17.22	18.54	17.63	18.91	19.30	18.92	20.24	19.33	20.60	20.99
	8H	17.33	18.59	17.75	18.98	19.38	19.23	20.49	19.65	20.88	21.28
	12H	17.38	18.59	17.81	18.97	19.40	19.44	20.65	19.87	21.03	21.46
4H	2H	15.19	16.61	15.59	16.96	17.34	15.77	17.19	16.17	17.54	17.92
	3H	17.19	18.38	17.59	18.78	19.18	18.10	19.30	18.51	19.69	20.09
	4H	17.94	19.03	18.37	19.44	19.87	19.13	20.22	19.57	20.63	21.07
	6H	18.48	19.43	18.93	19.87	20.32	20.07	21.02	20.52	21.46	21.91
	8H	18.62	19.52	19.08	19.96	20.42	20.45	21.34	20.91	21.78	22.25
	12H	18.71	19.51	19.19	19.99	20.46	20.72	21.53	21.20	22.00	22.47
8H	4H	18.39	19.28	18.85	19.72	20.19	19.43	20.33	19.89	20.77	21.23
	6H	19.07	19.81	19.56	20.30	20.77	20.52	21.26	21.01	21.75	22.22
	8H	19.29	19.96	19.80	20.46	20.95	21.01	21.68	21.51	22.18	22.66
	12H	19.44	20.03	19.94	20.52	21.08	21.38	21.97	21.89	22.46	23.02
12H	4H	18.47	19.28	18.95	19.75	20.22	19.46	20.27	19.94	20.74	21.21
	6H	19.20	19.87	19.70	20.37	20.86	20.57	21.24	21.08	21.75	22.23
	8H	19.49	20.08	19.99	20.57	21.13	21.13	21.72	21.63	22.21	22.77