

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: P1589744

Luminaire Tested: 24CZSP-SB-42-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589744
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-42-L935-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 3500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

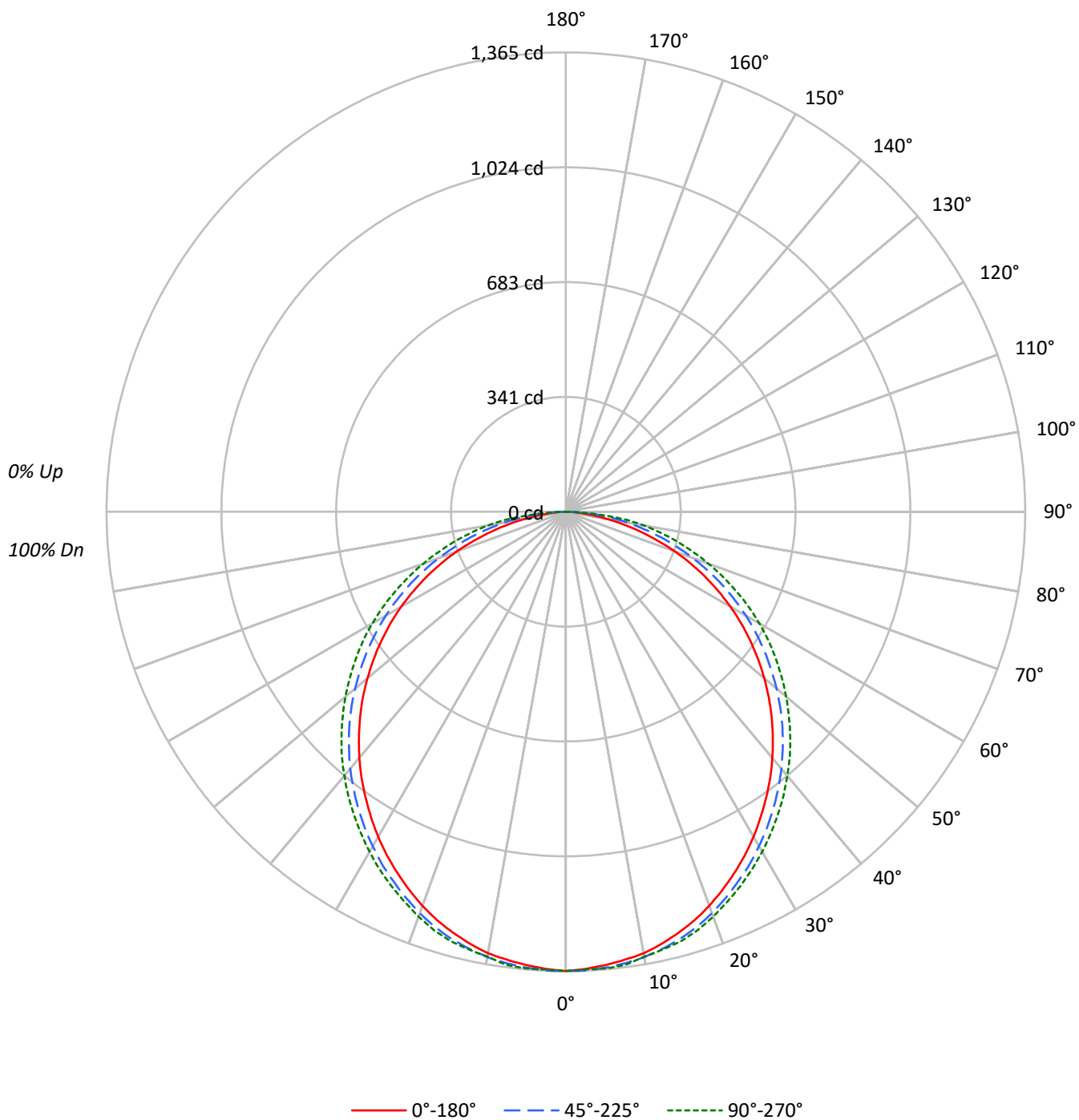
Lumens per Lamp: N/A
Luminaire Lumens: 3970.0 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P1589744

CATALOG NUMBER: 24CZSP-SB-42-L935-S

Luminous Intensity Polar Plot



TEST NUMBER: P1589744

CATALOG NUMBER: 24CZSP-SB-42-L935-S

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	94	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	69
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53		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	45	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2090	2090	2090
5°	2079	2090	2094
10°	2072	2089	2088
15°	2053	2083	2095
20°	2031	2069	2087
25°	2002	2048	2074
30°	1973	2030	2063
35°	1940	2010	2054
40°	1909	1993	2047
45°	1874	1972	2042
50°	1834	1947	2037
55°	1788	1923	2034
60°	1732	1894	2035
65°	1653	1854	2024
70°	1545	1798	2019
75°	1369	1729	2027
80°	1115	1642	2087
85°	721	1517	1801

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2115 cd/sqm

TEST NUMBER: P1589744

CATALOG NUMBER: 24CZSP-SB-42-L935-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.1	3.3
10°-20°	369.8	9.3
20°-30°	557.6	14.0
30°-40°	671.0	16.9
40°-50°	699.9	17.6
50°-60°	641.5	16.2
60°-70°	503.8	12.7
70°-80°	306.6	7.7
80°-90°	90.7	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°	1056.6	26.6
0°-40°	1727.6	43.5
0°-60°	3069.0	77.3
0°-90°	3970.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3970.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1365	1365	1365	1365	1365	
5°	1352	1360	1360	1358	1362	128
15°	1295	1308	1314	1315	1321	365
25°	1184	1201	1212	1220	1227	546
35°	1038	1054	1075	1091	1098	649
45°	865	883	910	932	943	667
55°	670	687	720	749	762	598
65°	456	473	512	546	558	451
75°	231	253	292	327	342	245
85°	41	58	86	96	102	53
90°	0	0	0	0	0	

TEST NUMBER: P1589744

CATALOG NUMBER: 24CZSP-SB-42-L935-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1364.7	1364.7	1364.7	1364.7	1364.7
2.5°	1359.6	1366.5	1364.7	1358.8	1361.3
5°	1351.9	1360.5	1359.6	1357.9	1362.2
7.5°	1342.5	1351.9	1352.8	1352.8	1357.9
10°	1332.3	1341.7	1343.4	1340.8	1342.5
12.5°	1315.2	1326.3	1329.7	1329.7	1332.3
15°	1294.7	1307.5	1313.5	1315.2	1321.2
17.5°	1272.5	1286.2	1293.9	1298.1	1303.3
20°	1246.0	1260.6	1269.1	1274.2	1280.2
22.5°	1216.1	1232.4	1241.8	1246.9	1253.7
25°	1184.5	1200.8	1211.9	1219.6	1227.2
27.5°	1151.2	1166.6	1182.0	1191.4	1198.2
30°	1115.4	1131.6	1147.8	1159.8	1166.6
32.5°	1076.9	1094.0	1112.8	1125.6	1133.3
35°	1037.7	1053.9	1075.2	1090.6	1098.3
37.5°	997.5	1014.6	1036.8	1053.0	1062.4
40°	954.8	972.7	996.7	1014.6	1024.0
42.5°	910.4	927.5	954.0	974.5	985.6
45°	865.1	883.1	910.4	931.8	942.9
47.5°	818.2	835.2	865.1	889.9	899.3
50°	769.5	785.7	817.3	843.8	854.9
52.5°	720.0	737.0	768.6	796.8	808.8
55°	669.6	686.6	720.0	749.0	761.8
57.5°	618.3	635.4	669.6	699.5	714.8
60°	565.4	582.5	618.3	649.1	664.4
62.5°	510.7	528.6	565.4	597.0	613.2
65°	456.1	473.1	511.6	545.7	558.5
67.5°	401.4	418.5	456.1	490.2	505.6
70°	345.0	364.7	401.4	437.3	450.9
72.5°	286.1	308.3	345.0	382.6	396.3
75°	231.4	252.8	292.1	327.1	342.5
77.5°	177.6	200.7	237.4	273.3	288.7
80°	126.4	148.6	186.2	220.3	236.6
82.5°	80.3	99.9	137.5	168.2	180.2
85°	41.0	58.1	86.3	96.5	102.5
87.5°	12.0	20.5	30.7	38.4	42.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1589744

CATALOG NUMBER: 24CZSP-SB-42-L935-S

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	14.06	15.72	14.43	16.04	16.35	14.80	16.46	15.16	16.77	17.08
	3H	15.83	17.33	16.21	17.66	18.02	16.88	18.38	17.25	18.71	19.07
	4H	16.45	17.87	16.85	18.22	18.59	17.74	19.16	18.14	19.51	19.88
	6H	16.86	18.18	17.27	18.54	18.93	18.49	19.80	18.90	20.17	20.56
	8H	16.96	18.22	17.38	18.61	19.01	18.78	20.04	19.20	20.43	20.83
	12H	17.01	18.22	17.44	18.60	19.03	18.97	20.18	19.40	20.56	20.99
4H	2H	14.83	16.25	15.23	16.60	16.97	15.40	16.82	15.80	17.17	17.54
	3H	16.82	18.02	17.23	18.41	18.81	17.71	18.91	18.12	19.31	19.71
	4H	17.56	18.65	17.99	19.06	19.49	18.73	19.82	19.16	20.23	20.66
	6H	18.09	19.04	18.54	19.48	19.93	19.64	20.59	20.09	21.03	21.48
	8H	18.23	19.12	18.69	19.56	20.03	20.00	20.89	20.46	21.34	21.80
	12H	18.31	19.12	18.79	19.59	20.06	20.26	21.06	20.74	21.53	22.00
8H	4H	18.01	18.90	18.47	19.34	19.80	19.03	19.92	19.49	20.36	20.83
	6H	18.67	19.41	19.16	19.90	20.37	20.09	20.83	20.58	21.32	21.79
	8H	18.88	19.55	19.39	20.05	20.54	20.56	21.23	21.07	21.73	22.22
	12H	19.02	19.61	19.52	20.10	20.66	20.91	21.50	21.42	21.99	22.55
12H	4H	18.09	18.89	18.57	19.36	19.83	19.06	19.86	19.54	20.33	20.80
	6H	18.80	19.46	19.30	19.97	20.45	20.14	20.81	20.65	21.31	21.80
	8H	19.07	19.66	19.58	20.15	20.71	20.68	21.27	21.18	21.76	22.31