

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: P1589732

Luminaire Tested: 24CZSP-SB-42-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589732
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-L830-S
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 3500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

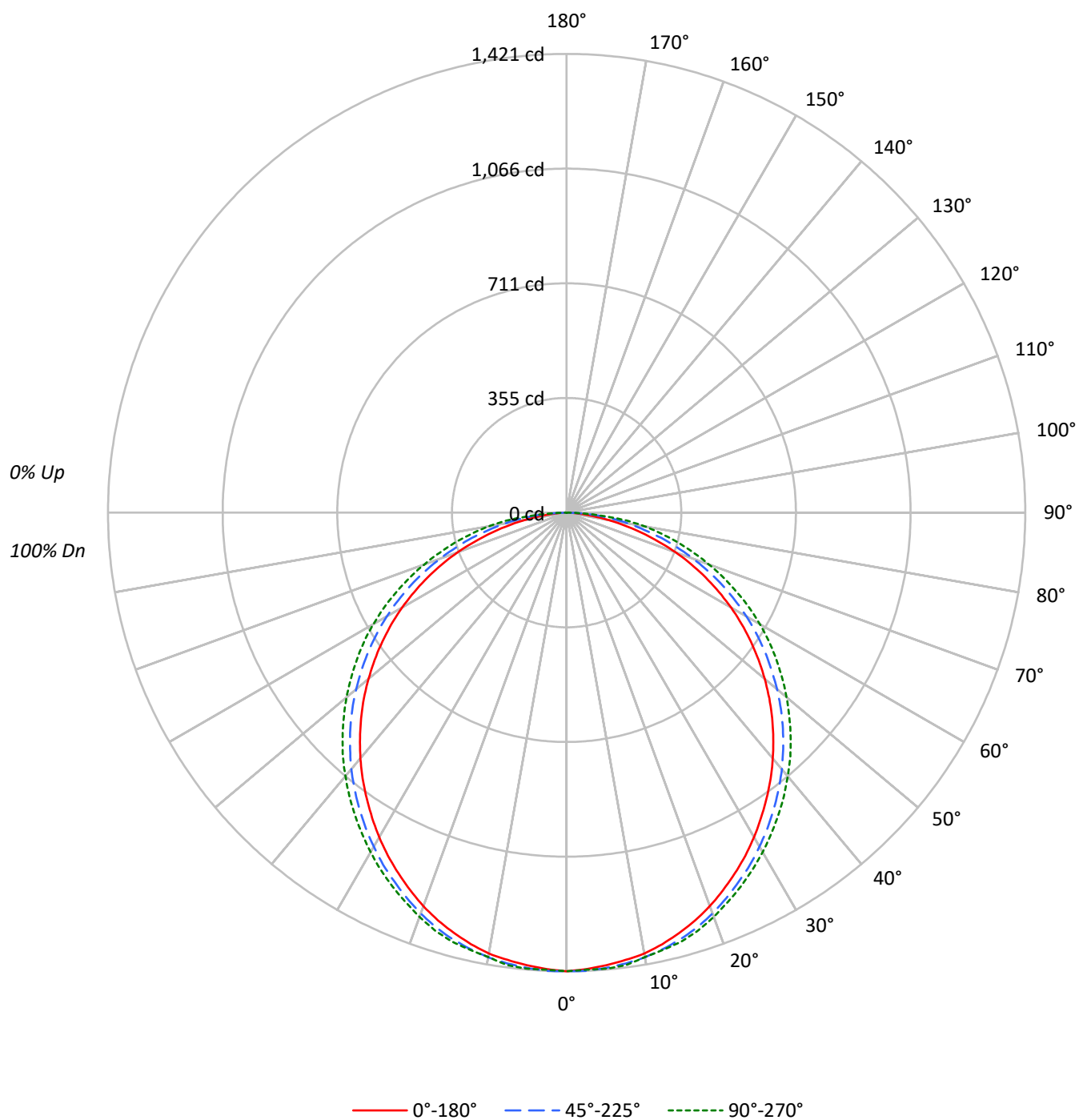
Lumens per Lamp: N/A
Luminaire Lumens: 4133.0 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1589732

CATALOG NUMBER: 24CZSP-SB-42-L830-S

Luminous Intensity Polar Plot



TEST NUMBER: P1589732

CATALOG NUMBER: 24CZSP-SB-42-L830-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°	2176	2176	2176
5°	2164	2176	2180
10°	2157	2175	2174
15°	2137	2168	2181
20°	2114	2153	2172
25°	2084	2132	2159
30°	2054	2113	2148
35°	2020	2093	2138
40°	1987	2075	2131
45°	1951	2053	2126
50°	1909	2028	2121
55°	1861	2001	2118
60°	1803	1972	2119
65°	1721	1930	2107
70°	1609	1871	2102
75°	1426	1800	2110
80°	1161	1709	2172
85°	750	1578	1875

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2201 cd/sqm

TEST NUMBER: P1589732

CATALOG NUMBER: 24CZSP-SB-42-L830-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.4	3.3
10°-20°	385.0	9.3
20°-30°	580.5	14.0
30°-40°	698.5	16.9
40°-50°	728.6	17.6
50°-60°	667.8	16.2
60°-70°	524.4	12.7
70°-80°	319.2	7.7
80°-90°	94.4	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°	1100.0	26.6
0°-40°	1798.5	43.5
0°-60°	3195.0	77.3
0°-90°	4133.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4133.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1421	1421	1421	1421	1421	
5°	1407	1416	1415	1414	1418	134
15°	1348	1361	1367	1369	1375	380
25°	1233	1250	1262	1270	1278	568
35°	1080	1097	1119	1135	1143	676
45°	901	919	948	970	982	695
55°	697	715	750	780	793	623
65°	475	493	533	568	582	470
75°	241	263	304	340	356	255
85°	43	60	90	100	107	56
90°	0	0	0	0	0	

TEST NUMBER: P1589732

CATALOG NUMBER: 24CZSP-SB-42-L830-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1420.8	1420.8	1420.8	1420.8	1420.8
2.5°	1415.4	1422.6	1420.8	1414.6	1417.2
5°	1407.4	1416.3	1415.4	1413.7	1418.1
7.5°	1397.7	1407.4	1408.3	1408.3	1413.7
10°	1387.0	1396.8	1398.6	1395.9	1397.7
12.5°	1369.2	1380.8	1384.3	1384.3	1387.0
15°	1347.9	1361.2	1367.4	1369.2	1375.4
17.5°	1324.8	1339.0	1347.0	1351.4	1356.8
20°	1297.2	1312.3	1321.2	1326.5	1332.8
22.5°	1266.1	1283.0	1292.8	1298.1	1305.2
25°	1233.2	1250.1	1261.6	1269.6	1277.6
27.5°	1198.5	1214.5	1230.5	1240.3	1247.4
30°	1161.2	1178.1	1195.0	1207.4	1214.5
32.5°	1121.2	1138.9	1158.5	1171.8	1179.8
35°	1080.3	1097.1	1119.4	1135.4	1143.4
37.5°	1038.5	1056.3	1079.4	1096.3	1106.0
40°	994.0	1012.7	1037.6	1056.3	1066.0
42.5°	947.8	965.6	993.1	1014.5	1026.0
45°	900.7	919.3	947.8	970.0	981.6
47.5°	851.8	869.5	900.7	926.4	936.2
50°	801.1	818.0	850.9	878.4	890.0
52.5°	749.5	767.3	800.2	829.5	842.0
55°	697.1	714.8	749.5	779.7	793.1
57.5°	643.7	661.5	697.1	728.2	744.2
60°	588.6	606.4	643.7	675.7	691.7
62.5°	531.7	550.4	588.6	621.5	638.4
65°	474.8	492.6	532.6	568.1	581.5
67.5°	417.9	435.7	474.8	510.3	526.3
70°	359.2	379.6	417.9	455.2	469.4
72.5°	297.8	321.0	359.2	398.3	412.5
75°	240.9	263.2	304.1	340.5	356.5
77.5°	184.9	208.9	247.2	284.5	300.5
80°	131.6	154.7	193.8	229.4	246.3
82.5°	83.6	104.0	143.1	175.2	187.6
85°	42.7	60.5	89.8	100.5	106.7
87.5°	12.4	21.3	32.0	40.0	44.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1589732

CATALOG NUMBER: 24CZSP-SB-42-L830-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	14.20	15.86	14.57	16.18	16.49	14.94	16.60	15.30	16.91	17.22
	3H	15.97	17.47	16.35	17.80	18.16	17.02	18.52	17.39	18.85	19.21
	4H	16.59	18.01	16.99	18.36	18.73	17.88	19.30	18.28	19.65	20.02
	6H	17.00	18.32	17.41	18.68	19.07	18.62	19.94	19.04	20.31	20.70
	8H	17.10	18.36	17.52	18.75	19.15	18.92	20.18	19.34	20.57	20.97
	12H	17.15	18.36	17.58	18.74	19.17	19.11	20.32	19.54	20.70	21.13
4H	2H	14.97	16.39	15.37	16.74	17.11	15.54	16.96	15.94	17.31	17.68
	3H	16.96	18.16	17.37	18.55	18.95	17.85	19.05	18.26	19.45	19.84
	4H	17.70	18.79	18.13	19.20	19.63	18.87	19.96	19.30	20.37	20.80
	6H	18.23	19.18	18.68	19.62	20.07	19.78	20.73	20.23	21.17	21.62
	8H	18.37	19.26	18.83	19.70	20.17	20.14	21.03	20.60	21.48	21.94
	12H	18.45	19.26	18.93	19.73	20.20	20.40	21.20	20.88	21.67	22.14
8H	4H	18.15	19.04	18.61	19.48	19.94	19.17	20.06	19.63	20.50	20.96
	6H	18.81	19.55	19.30	20.04	20.51	20.23	20.97	20.72	21.46	21.93
	8H	19.02	19.69	19.53	20.19	20.68	20.70	21.37	21.21	21.87	22.35
	12H	19.16	19.75	19.66	20.24	20.80	21.05	21.64	21.56	22.13	22.69
12H	4H	18.23	19.03	18.71	19.50	19.97	19.20	20.00	19.67	20.47	20.94
	6H	18.94	19.60	19.44	20.11	20.59	20.28	20.95	20.79	21.45	21.93
	8H	19.21	19.80	19.72	20.29	20.85	20.82	21.41	21.32	21.89	22.45