

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: P1588604

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588604
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-42-L935-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 3500 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

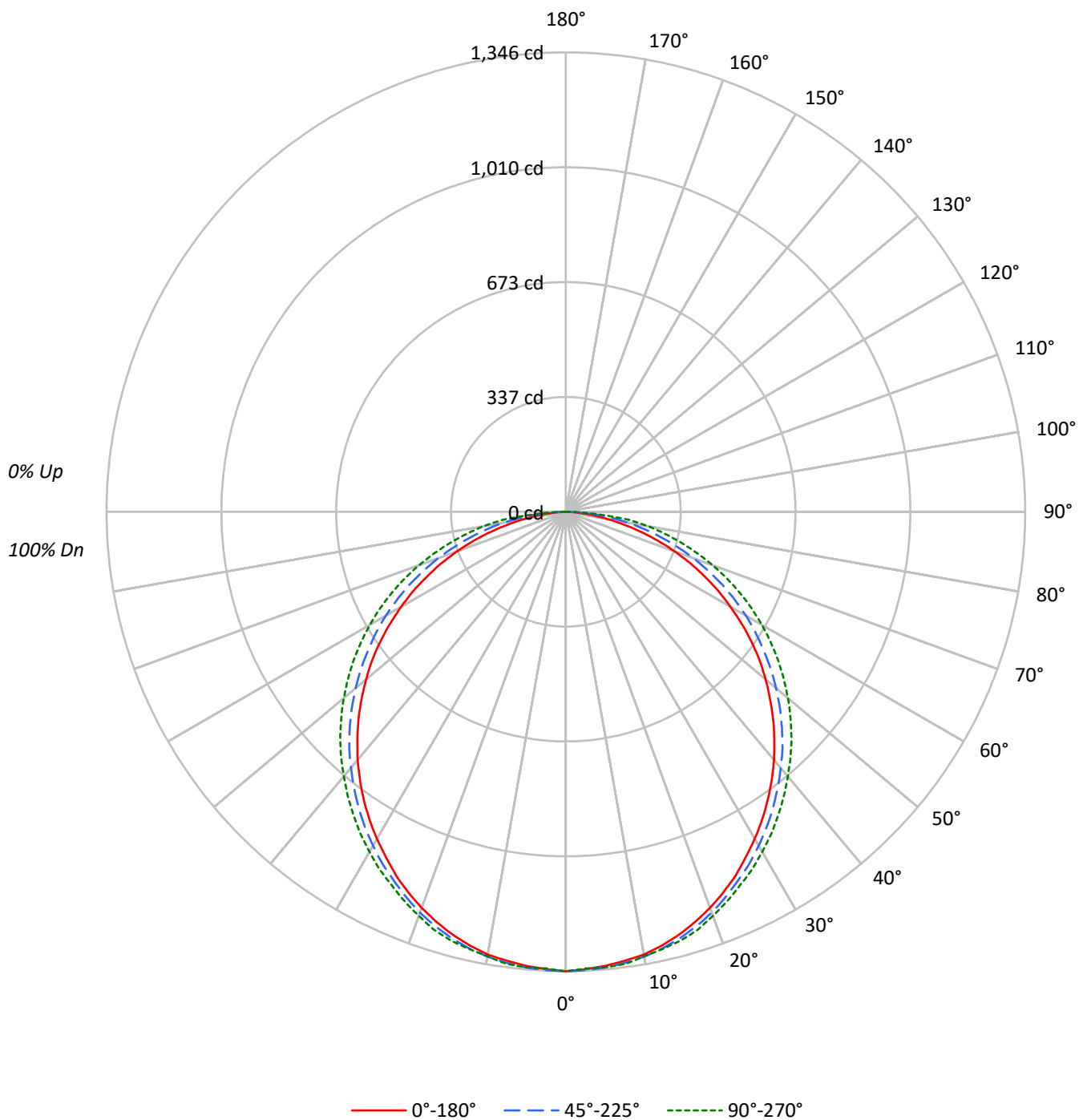
Lumens per Lamp: N/A
Luminaire Lumens: 3931.0 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1588604

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

Luminous Intensity Polar Plot



TEST NUMBER: P1588604

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

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	30	10	50	30	10
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	69		
3	89	79	70	64	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°	2062	2062	2062
5°	2053	2061	2060
10°	2048	2058	2057
15°	2034	2050	2063
20°	2013	2037	2054
25°	1988	2016	2041
30°	1957	1998	2035
35°	1929	1979	2029
40°	1897	1959	2023
45°	1861	1939	2025
50°	1821	1916	2024
55°	1774	1889	2027
60°	1707	1868	2032
65°	1629	1832	2038
70°	1518	1781	2047
75°	1353	1710	2067
80°	1118	1628	2168
85°	728	1471	1894

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2237 cd/sqm

TEST NUMBER: P1588604

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.3	3.2
10°-20°	364.6	9.3
20°-30°	549.9	14.0
30°-40°	662.4	16.8
40°-50°	691.7	17.6
50°-60°	635.3	16.2
60°-70°	500.4	12.7
70°-80°	307.0	7.8
80°-90°	92.4	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°	1041.9	26.5
0°-40°	1704.3	43.4
0°-60°	3031.3	77.1
0°-90°	3931.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3931.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1346	1346	1346	1346	1346	
5°	1335	1337	1340	1345	1340	127
15°	1283	1285	1293	1301	1301	362
25°	1176	1179	1193	1208	1208	542
35°	1032	1037	1058	1080	1085	645
45°	859	869	895	926	935	662
55°	664	676	707	747	759	593
65°	449	465	506	548	562	445
75°	229	247	289	335	349	242
85°	41	57	84	106	108	54
90°	0	0	0	0	0	

TEST NUMBER: P1588604

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1346.5	1346.5	1346.5	1346.5	1346.5
2.5°	1341.3	1343.9	1344.7	1345.6	1339.6
5°	1335.3	1337.0	1340.4	1344.7	1339.6
7.5°	1326.6	1328.4	1332.7	1338.7	1336.1
10°	1317.1	1318.0	1323.2	1327.5	1322.3
12.5°	1301.6	1304.2	1310.2	1313.7	1312.0
15°	1282.6	1285.2	1293.0	1300.8	1300.8
17.5°	1260.2	1263.7	1273.2	1283.5	1284.4
20°	1235.2	1237.8	1249.9	1260.2	1260.2
22.5°	1206.7	1210.2	1222.3	1233.5	1235.2
25°	1176.5	1179.1	1192.9	1207.6	1207.6
27.5°	1141.2	1146.4	1163.6	1178.3	1181.7
30°	1106.7	1111.0	1130.0	1148.1	1150.7
32.5°	1070.4	1075.6	1095.5	1115.3	1119.6
35°	1031.6	1036.8	1058.4	1079.9	1085.1
37.5°	991.1	997.1	1019.6	1044.6	1049.7
40°	948.8	955.7	979.9	1006.6	1011.8
42.5°	904.0	913.5	939.3	966.9	974.7
45°	859.1	868.6	895.3	926.4	935.0
47.5°	811.7	822.9	850.5	883.3	892.8
50°	764.2	775.5	803.9	839.3	849.6
52.5°	715.9	727.1	756.5	793.6	804.8
55°	664.2	676.3	707.3	747.0	759.1
57.5°	610.7	626.2	659.0	699.5	711.6
60°	557.2	572.7	609.8	649.5	663.3
62.5°	504.6	519.3	557.2	599.5	614.2
65°	449.4	464.9	505.5	547.7	562.4
67.5°	395.1	410.6	451.1	495.1	510.6
70°	339.0	356.2	397.6	441.6	457.2
72.5°	282.9	301.0	343.3	388.2	402.8
75°	228.6	246.7	289.0	334.7	349.3
77.5°	175.1	194.9	236.3	282.9	296.7
80°	126.8	145.8	184.6	230.3	245.8
82.5°	81.1	97.5	136.3	179.4	190.6
85°	41.4	56.9	83.7	106.1	107.8
87.5°	12.9	18.1	27.6	41.4	42.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588604

CATALOG NUMBER: 24CZSP-A-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	13.99	15.65	14.36	15.97	16.28	14.82	16.48	15.19	16.80	17.11
	3H	15.75	17.26	16.12	17.58	17.94	16.94	18.45	17.32	18.77	19.13
	4H	16.37	17.79	16.76	18.14	18.51	17.83	19.25	18.23	19.60	19.97
	6H	16.78	18.10	17.19	18.46	18.85	18.61	19.93	19.02	20.29	20.68
	8H	16.89	18.15	17.31	18.54	18.93	18.93	20.19	19.35	20.58	20.98
	12H	16.94	18.15	17.37	18.53	18.96	19.14	20.35	19.57	20.73	21.16
4H	2H	14.76	16.19	15.16	16.53	16.91	15.41	16.83	15.81	17.18	17.55
	3H	16.74	17.94	17.15	18.34	18.74	17.77	18.96	18.17	19.36	19.76
	4H	17.48	18.56	17.91	18.98	19.41	18.82	19.90	19.25	20.32	20.75
	6H	18.01	18.96	18.46	19.40	19.85	19.77	20.72	20.22	21.16	21.62
	8H	18.15	19.05	18.61	19.49	19.95	20.17	21.06	20.63	21.50	21.96
	12H	18.24	19.04	18.72	19.52	19.98	20.44	21.25	20.92	21.72	22.19
8H	4H	17.94	18.83	18.40	19.27	19.74	19.11	20.00	19.57	20.44	20.90
	6H	18.60	19.34	19.09	19.83	20.30	20.22	20.96	20.71	21.45	21.92
	8H	18.81	19.48	19.32	19.98	20.47	20.73	21.40	21.24	21.90	22.39
	12H	18.95	19.54	19.45	20.03	20.59	21.12	21.71	21.62	22.20	22.76
12H	4H	18.03	18.83	18.51	19.30	19.77	19.13	19.93	19.61	20.41	20.88
	6H	18.73	19.40	19.24	19.91	20.39	20.27	20.94	20.77	21.44	21.92
	8H	19.01	19.60	19.51	20.09	20.65	20.84	21.44	21.35	21.93	22.48