

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: P1588254

Luminaire Tested: 24CZSP-42-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588254
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-42-L835-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 3500 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

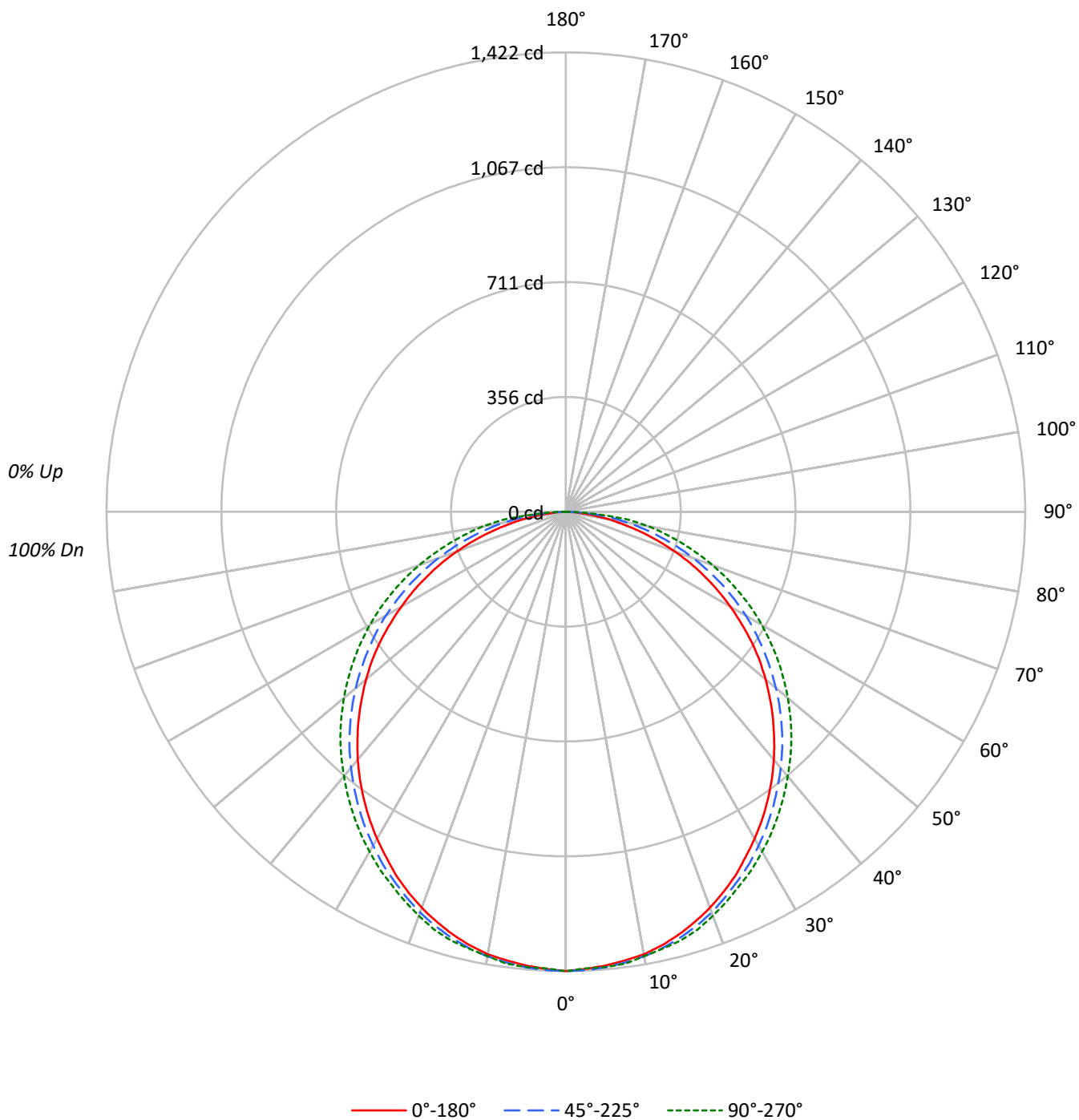
Lumens per Lamp: N/A
Luminaire Lumens: 4151.0 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1588254

CATALOG NUMBER: 24CZSP-42-L835-S

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	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°	2178	2178	2178
5°	2168	2176	2175
10°	2163	2173	2172
15°	2148	2165	2178
20°	2126	2151	2169
25°	2100	2129	2155
30°	2067	2110	2149
35°	2037	2090	2142
40°	2003	2069	2136
45°	1965	2048	2139
50°	1923	2023	2138
55°	1873	1994	2140
60°	1802	1973	2146
65°	1720	1935	2152
70°	1603	1880	2162
75°	1429	1806	2183
80°	1181	1719	2290
85°	768	1553	2002

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2362 cd/sqm

TEST NUMBER: P1588254

CATALOG NUMBER: 24CZSP-42-L835-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	3.2
10°-20°	385.0	9.3
20°-30°	580.7	14.0
30°-40°	699.4	16.8
40°-50°	730.5	17.6
50°-60°	670.8	16.2
60°-70°	528.4	12.7
70°-80°	324.2	7.8
80°-90°	97.5	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°	1100.2	26.5
0°-40°	1799.6	43.4
0°-60°	3200.9	77.1
0°-90°	4151.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4151.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1422	1422	1422	1422	1422	
5°	1410	1412	1416	1420	1414	134
15°	1354	1357	1365	1374	1374	382
25°	1242	1245	1260	1275	1275	572
35°	1089	1095	1118	1140	1146	681
45°	907	917	946	978	987	699
55°	701	714	747	789	802	626
65°	474	491	534	578	594	469
75°	241	260	305	353	369	256
85°	44	60	88	112	114	57
90°	0	0	0	0	0	

TEST NUMBER: P1588254

CATALOG NUMBER: 24CZSP-42-L835-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1421.8	1421.8	1421.8	1421.8	1421.8
2.5°	1416.4	1419.1	1420.0	1420.9	1414.5
5°	1410.0	1411.8	1415.5	1420.0	1414.5
7.5°	1400.9	1402.7	1407.3	1413.6	1410.9
10°	1390.9	1391.8	1397.2	1401.8	1396.3
12.5°	1374.5	1377.2	1383.6	1387.2	1385.4
15°	1354.4	1357.2	1365.4	1373.6	1373.6
17.5°	1330.7	1334.4	1344.4	1355.3	1356.2
20°	1304.3	1307.1	1319.8	1330.7	1330.7
22.5°	1274.3	1277.9	1290.7	1302.5	1304.3
25°	1242.4	1245.1	1259.7	1275.2	1275.2
27.5°	1205.0	1210.5	1228.7	1244.2	1247.9
30°	1168.6	1173.2	1193.2	1212.3	1215.1
32.5°	1130.4	1135.8	1156.8	1177.7	1182.3
35°	1089.4	1094.8	1117.6	1140.4	1145.8
37.5°	1046.6	1052.9	1076.6	1103.0	1108.5
40°	1001.9	1009.2	1034.7	1063.0	1068.4
42.5°	954.6	964.6	991.9	1021.1	1029.3
45°	907.2	917.2	945.5	978.2	987.4
47.5°	857.1	868.9	898.1	932.7	942.7
50°	807.0	818.8	848.9	886.3	897.2
52.5°	756.0	767.8	798.8	838.0	849.8
55°	701.4	714.1	746.9	788.8	801.5
57.5°	644.9	661.3	695.9	738.7	751.4
60°	588.4	604.8	644.0	685.9	700.4
62.5°	532.8	548.3	588.4	633.0	648.5
65°	474.5	490.9	533.8	578.4	593.9
67.5°	417.2	433.6	476.4	522.8	539.2
70°	358.0	376.2	419.9	466.4	482.7
72.5°	298.8	317.9	362.5	409.9	425.4
75°	241.4	260.5	305.1	353.4	368.9
77.5°	184.9	205.9	249.6	298.8	313.3
80°	133.9	153.9	194.9	243.2	259.6
82.5°	85.6	102.9	143.9	189.5	201.3
85°	43.7	60.1	88.4	112.0	113.9
87.5°	13.7	19.1	29.1	43.7	44.6
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588254

CATALOG NUMBER: 24CZSP-42-L835-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	14.18	15.84	14.55	16.16	16.47	15.01	16.67	15.38	16.99	17.30
	3H	15.94	17.45	16.31	17.77	18.13	17.13	18.64	17.51	18.96	19.32
	4H	16.56	17.98	16.95	18.33	18.70	18.02	19.44	18.42	19.79	20.16
	6H	16.97	18.29	17.38	18.65	19.04	18.80	20.12	19.21	20.48	20.87
	8H	17.08	18.34	17.50	18.73	19.12	19.12	20.38	19.54	20.77	21.17
	12H	17.13	18.34	17.56	18.72	19.15	19.33	20.54	19.76	20.92	21.35
4H	2H	14.95	16.38	15.35	16.72	17.10	15.60	17.02	16.00	17.37	17.74
	3H	16.93	18.13	17.34	18.53	18.93	17.96	19.15	18.36	19.55	19.95
	4H	17.67	18.75	18.10	19.17	19.60	19.01	20.09	19.44	20.51	20.94
	6H	18.20	19.15	18.65	19.59	20.04	19.96	20.91	20.41	21.35	21.81
	8H	18.34	19.24	18.80	19.68	20.14	20.36	21.25	20.82	21.69	22.15
	12H	18.43	19.23	18.91	19.70	20.17	20.63	21.44	21.11	21.91	22.38
8H	4H	18.13	19.02	18.59	19.46	19.92	19.30	20.19	19.76	20.63	21.09
	6H	18.79	19.53	19.28	20.02	20.49	20.41	21.15	20.90	21.64	22.11
	8H	19.00	19.67	19.51	20.17	20.66	20.92	21.59	21.43	22.09	22.58
	12H	19.14	19.73	19.64	20.22	20.78	21.31	21.90	21.81	22.39	22.95
12H	4H	18.22	19.02	18.70	19.49	19.96	19.32	20.12	19.80	20.60	21.07
	6H	18.92	19.59	19.43	20.09	20.58	20.46	21.13	20.96	21.63	22.11
	8H	19.20	19.79	19.70	20.28	20.84	21.03	21.63	21.54	22.12	22.67