

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: P1588595

Luminaire Tested: 24CZSP-A-42-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2604-747-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-42-L835
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 3500 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

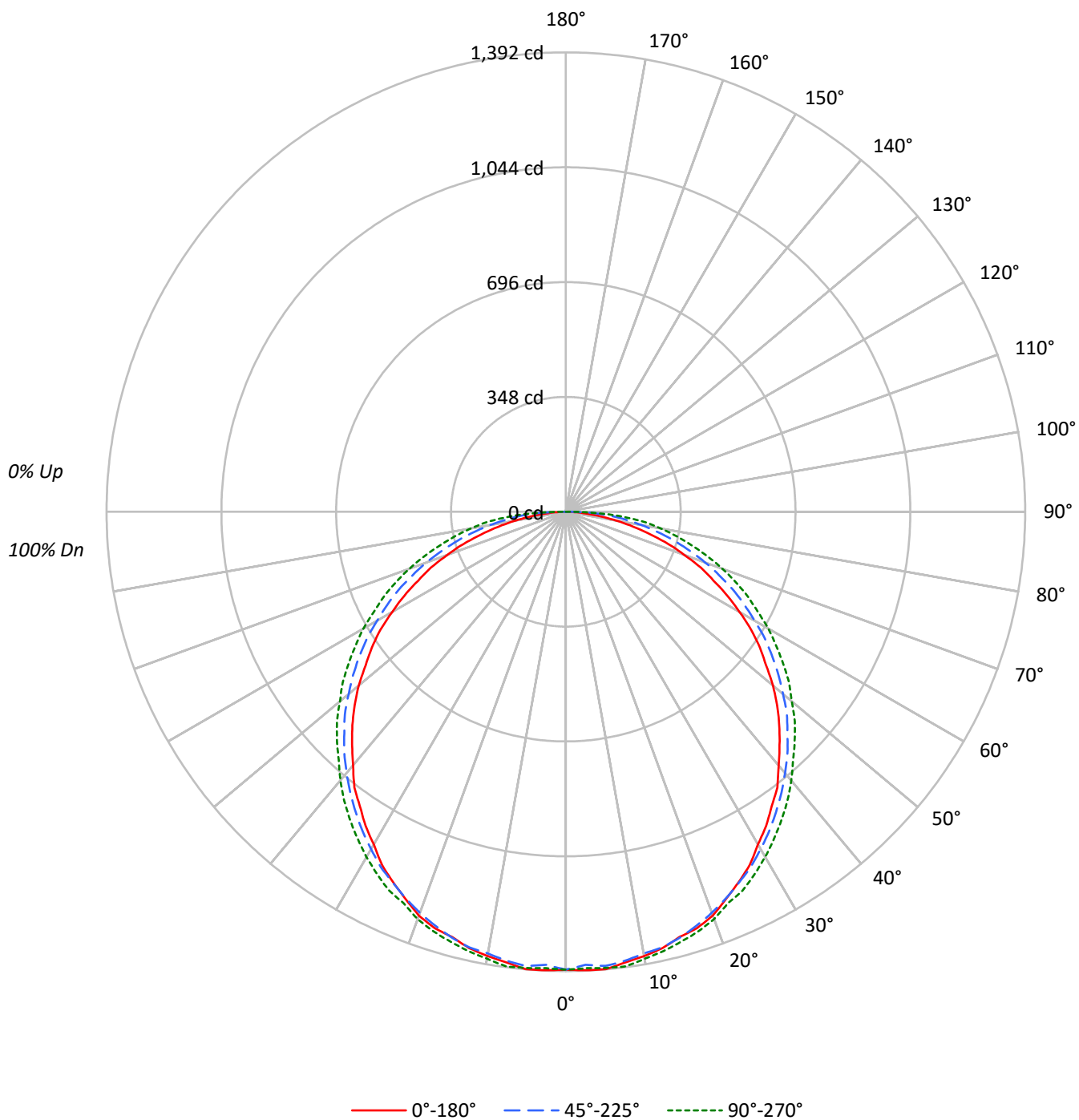
Lumens per Lamp: N/A
Luminaire Lumens: 4235.0 lumens
Efficiency: N/A
Efficacy: 147.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1588595

CATALOG NUMBER: 24CZSP-A-42-L835

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	98	94	105	100	96	92	96	93	89		92	89	87		89
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68
4	81	69	60	53	79	67	59	52	65	57	51		62	56	51		60
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		49
7	64	50	41	35	62	49	40	34	47	40	34		46	39	34		45
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		38
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2125	2125	2125
5°	2139	2124	2133
10°	2126	2114	2139
15°	2115	2118	2139
20°	2123	2108	2141
25°	2093	2096	2141
30°	2059	2088	2136
35°	2035	2077	2132
40°	2006	2066	2125
45°	1981	2056	2124
50°	1953	2047	2129
55°	1918	2039	2148
60°	1864	2026	2172
65°	1790	2025	2205
70°	1708	2012	2257
75°	1572	2017	2341
80°	1378	2058	2576
85°	1051	2371	3084

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 3420 cd/sqm

TEST NUMBER: P1588595

CATALOG NUMBER: 24CZSP-A-42-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.7	3.1
10°-20°	378.7	8.9
20°-30°	575.2	13.6
30°-40°	696.8	16.5
40°-50°	733.1	17.3
50°-60°	681.7	16.1
60°-70°	548.8	13.0
70°-80°	355.5	8.4
80°-90°	133.3	3.1
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°	1085.7	25.6
0°-40°	1782.5	42.1
0°-60°	3197.3	75.5
0°-90°	4235.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4235.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1388	1388	1388	1388	1388	
5°	1392	1390	1381	1390	1388	132
15°	1334	1339	1336	1352	1349	378
25°	1238	1237	1240	1262	1267	571
35°	1088	1096	1111	1130	1140	682
45°	915	927	949	970	981	705
55°	718	736	764	794	804	640
65°	494	516	559	592	608	491
75°	266	292	341	380	396	282
85°	60	88	135	168	176	73
90°	0	0	0	0	0	

TEST NUMBER: P1588595

CATALOG NUMBER: 24CZSP-A-42-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1387.5	1387.5	1387.5	1387.5	1387.5
2.5°	1390.5	1390.5	1374.3	1391.5	1384.4
5°	1391.5	1389.5	1381.4	1389.5	1387.5
7.5°	1377.3	1379.4	1372.3	1382.4	1389.5
10°	1367.2	1369.2	1359.1	1375.3	1375.3
12.5°	1354.0	1356.0	1352.0	1367.2	1364.2
15°	1333.7	1338.8	1335.8	1352.0	1348.9
17.5°	1322.6	1318.5	1315.5	1327.6	1333.7
20°	1302.3	1293.2	1293.2	1309.4	1313.4
22.5°	1269.8	1266.8	1267.8	1288.1	1284.0
25°	1238.4	1237.4	1240.4	1261.7	1266.8
27.5°	1206.9	1204.9	1214.0	1234.3	1238.4
30°	1164.3	1168.4	1180.6	1202.9	1208.0
32.5°	1128.9	1136.0	1147.1	1168.4	1174.5
35°	1088.3	1096.4	1110.6	1129.9	1140.0
37.5°	1052.8	1057.9	1073.1	1091.3	1103.5
40°	1003.1	1016.3	1033.5	1059.9	1062.9
42.5°	958.5	971.6	994.0	1022.4	1019.3
45°	914.8	927.0	949.3	969.6	980.8
47.5°	868.2	879.3	908.8	933.1	941.2
50°	819.5	833.7	859.1	884.4	893.5
52.5°	764.7	780.0	812.4	839.8	853.0
55°	718.1	736.3	763.7	794.2	804.3
57.5°	666.4	681.6	715.0	745.5	755.6
60°	608.5	626.8	661.3	693.7	709.0
62.5°	552.8	573.0	609.6	643.0	655.2
65°	493.9	516.2	558.8	592.3	608.5
67.5°	443.2	461.5	503.1	540.6	557.8
70°	381.4	405.7	449.3	490.9	504.1
72.5°	326.6	347.9	393.5	435.1	451.3
75°	265.7	292.1	340.8	380.3	395.6
77.5°	209.9	237.3	286.0	327.6	344.8
80°	156.2	182.6	233.3	275.9	292.1
82.5°	105.5	131.9	182.6	224.1	242.4
85°	59.8	88.2	134.9	168.4	175.5
87.5°	26.4	50.7	76.1	91.3	97.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588595

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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	14.30	15.98	14.67	16.30	16.61	14.98	16.66	15.34	16.97	17.29
	3H	16.16	17.69	16.53	18.01	18.37	17.20	18.72	17.57	19.05	19.41
	4H	16.84	18.29	17.24	18.64	19.01	18.16	19.60	18.56	19.95	20.32
	6H	17.34	18.68	17.75	19.04	19.43	19.05	20.39	19.46	20.76	21.15
	8H	17.48	18.77	17.91	19.16	19.55	19.45	20.74	19.88	21.13	21.53
	12H	17.57	18.80	18.00	19.19	19.61	19.81	21.05	20.24	21.43	21.86
4H	2H	15.10	16.54	15.49	16.89	17.26	15.62	17.06	16.01	17.41	17.78
	3H	17.18	18.41	17.59	18.80	19.20	18.08	19.30	18.49	19.69	20.09
	4H	18.00	19.11	18.43	19.53	19.96	19.21	20.32	19.64	20.73	21.16
	6H	18.63	19.60	19.08	20.04	20.50	20.28	21.25	20.73	21.69	22.14
	8H	18.83	19.74	19.28	20.18	20.65	20.77	21.68	21.22	22.12	22.59
	12H	18.96	19.79	19.44	20.26	20.73	21.22	22.04	21.70	22.52	22.99
8H	4H	18.51	19.43	18.97	19.87	20.33	19.55	20.46	20.01	20.90	21.37
	6H	19.30	20.06	19.79	20.55	21.02	20.80	21.57	21.29	22.05	22.52
	8H	19.58	20.27	20.09	20.78	21.26	21.42	22.11	21.93	22.61	23.10
	12H	19.80	20.41	20.30	20.90	21.46	22.03	22.64	22.54	23.13	23.69
12H	4H	18.62	19.45	19.10	19.92	20.39	19.59	20.41	20.06	20.89	21.35
	6H	19.46	20.16	19.97	20.66	21.14	20.87	21.56	21.38	22.07	22.55
	8H	19.83	20.45	20.34	20.94	21.49	21.58	22.19	22.08	22.68	23.24