

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: P1586392

Luminaire Tested: 22CZSP-42-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586392
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: 22CZSP-42-L830-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

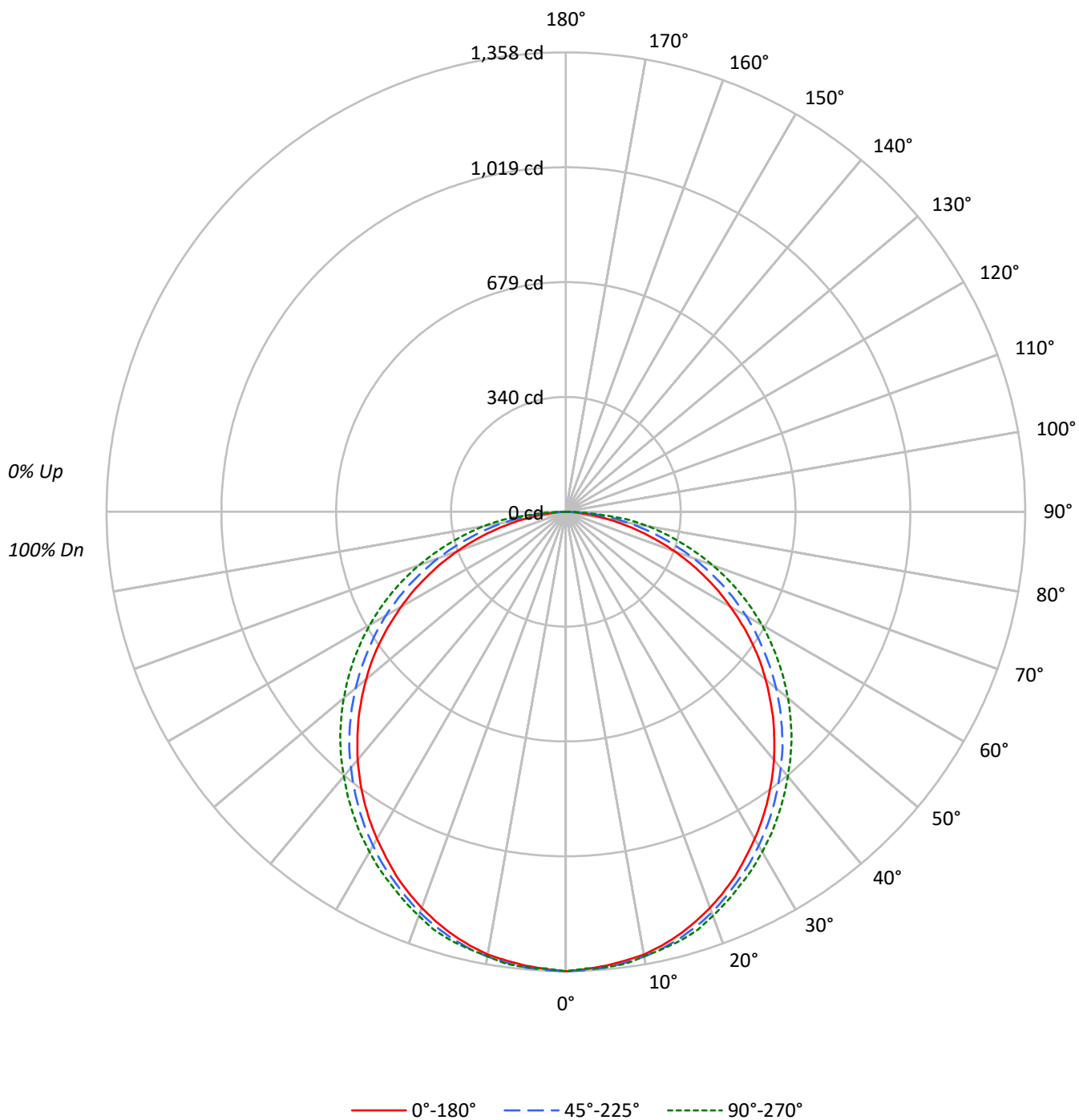
Lumens per Lamp: N/A
Luminaire Lumens: 3966.0 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.9
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: P1586392

CATALOG NUMBER: 22CZSP-42-L830-S

Luminous Intensity Polar Plot



TEST NUMBER: P1586392

CATALOG NUMBER: 22CZSP-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	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°	4254	4254	4254
5°	4234	4251	4248
10°	4225	4245	4242
15°	4195	4229	4254
20°	4153	4202	4237
25°	4101	4158	4210
30°	4037	4122	4198
35°	3979	4082	4185
40°	3913	4041	4173
45°	3839	4000	4178
50°	3756	3951	4176
55°	3658	3896	4181
60°	3521	3853	4191
65°	3359	3779	4204
70°	3131	3673	4222
75°	2790	3527	4265
80°	2306	3358	4472
85°	1502	3032	3909

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4613 cd/sqm

TEST NUMBER: P1586392

CATALOG NUMBER: 22CZSP-42-L830-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.5	3.2
10°-20°	367.9	9.3
20°-30°	554.8	14.0
30°-40°	668.3	16.8
40°-50°	697.9	17.6
50°-60°	640.9	16.2
60°-70°	504.8	12.7
70°-80°	309.7	7.8
80°-90°	93.2	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°	1051.2	26.5
0°-40°	1719.4	43.4
0°-60°	3058.3	77.1
0°-90°	3966.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3966.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1358	1358	1358	1358	1358	
5°	1347	1349	1352	1357	1352	128
15°	1294	1297	1304	1312	1312	365
25°	1187	1190	1204	1218	1218	546
35°	1041	1046	1068	1090	1095	651
45°	867	876	903	935	943	668
55°	670	682	714	754	766	598
65°	453	469	510	553	567	449
75°	231	249	292	338	352	245
85°	42	57	84	107	109	55
90°	0	0	0	0	0	

TEST NUMBER: P1586392

CATALOG NUMBER: 22CZSP-42-L830-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1358.5	1358.5	1358.5	1358.5	1358.5
2.5°	1353.2	1355.9	1356.7	1357.6	1351.5
5°	1347.1	1348.9	1352.4	1356.7	1351.5
7.5°	1338.4	1340.2	1344.5	1350.6	1348.0
10°	1328.9	1329.7	1335.0	1339.3	1334.1
12.5°	1313.2	1315.8	1321.9	1325.4	1323.7
15°	1294.1	1296.7	1304.5	1312.3	1312.3
17.5°	1271.4	1274.9	1284.5	1294.9	1295.8
20°	1246.2	1248.8	1261.0	1271.4	1271.4
22.5°	1217.5	1221.0	1233.1	1244.5	1246.2
25°	1187.0	1189.6	1203.6	1218.4	1218.4
27.5°	1151.3	1156.6	1174.0	1188.8	1192.2
30°	1116.5	1120.9	1140.0	1158.3	1160.9
32.5°	1080.0	1085.2	1105.2	1125.2	1129.6
35°	1040.8	1046.0	1067.8	1089.6	1094.8
37.5°	999.9	1006.0	1028.6	1053.9	1059.1
40°	957.3	964.2	988.6	1015.6	1020.8
42.5°	912.0	921.6	947.7	975.6	983.4
45°	866.8	876.3	903.3	934.6	943.4
47.5°	818.9	830.2	858.1	891.1	900.7
50°	771.0	782.4	811.1	846.8	857.2
52.5°	722.3	733.6	763.2	800.6	811.9
55°	670.1	682.3	713.6	753.6	765.8
57.5°	616.1	631.8	664.9	705.8	718.0
60°	562.2	577.8	615.3	655.3	669.2
62.5°	509.1	523.9	562.2	604.8	619.6
65°	453.4	469.1	510.0	552.6	567.4
67.5°	398.6	414.2	455.1	499.5	515.2
70°	342.0	359.4	401.2	445.6	461.2
72.5°	285.4	303.7	346.4	391.6	406.4
75°	230.6	248.9	291.5	337.7	352.5
77.5°	176.7	196.7	238.4	285.4	299.4
80°	127.9	147.1	186.2	232.4	248.0
82.5°	81.8	98.3	137.5	181.0	192.3
85°	41.8	57.4	84.4	107.0	108.8
87.5°	13.1	18.3	27.8	41.8	42.6
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1586392

CATALOG NUMBER: 22CZSP-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	16.51	18.17	16.87	18.48	18.80	17.34	19.00	17.70	19.32	19.63
	3H	18.26	19.77	18.64	20.10	20.46	19.46	20.96	19.83	21.29	21.65
	4H	18.88	20.30	19.28	20.65	21.03	20.34	21.77	20.74	22.11	22.49
	6H	19.29	20.61	19.70	20.98	21.37	21.13	22.45	21.54	22.81	23.20
	8H	19.40	20.66	19.82	21.05	21.45	21.45	22.71	21.87	23.10	23.49
	12H	19.45	20.66	19.88	21.04	21.47	21.66	22.87	22.09	23.25	23.68
4H	2H	17.28	18.70	17.68	19.05	19.42	17.93	19.35	18.32	19.70	20.07
	3H	19.26	20.46	19.67	20.85	21.25	20.28	21.48	20.69	21.88	22.28
	4H	19.99	21.08	20.42	21.49	21.93	21.33	22.42	21.76	22.83	23.27
	6H	20.52	21.48	20.98	21.91	22.37	22.29	23.24	22.74	23.68	24.13
	8H	20.67	21.56	21.13	22.00	22.47	22.68	23.58	23.14	24.02	24.48
	12H	20.75	21.56	21.23	22.03	22.50	22.96	23.76	23.44	24.24	24.71
8H	4H	20.45	21.35	20.91	21.79	22.25	21.62	22.51	22.08	22.96	23.42
	6H	21.11	21.86	21.61	22.34	22.82	22.73	23.48	23.23	23.97	24.44
	8H	21.33	21.99	21.83	22.50	22.98	23.25	23.91	23.75	24.42	24.90
	12H	21.46	22.06	21.97	22.55	23.10	23.63	24.22	24.14	24.71	25.27
12H	4H	20.54	21.35	21.02	21.82	22.29	21.65	22.45	22.13	22.92	23.39
	6H	21.25	21.92	21.75	22.42	22.91	22.78	23.45	23.29	23.96	24.44
	8H	21.52	22.12	22.03	22.61	23.16	23.36	23.95	23.86	24.44	25.00