

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: P1586637

Luminaire Tested: 22CZSP-A-42-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586637
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-772-10)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-A-42-L840
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

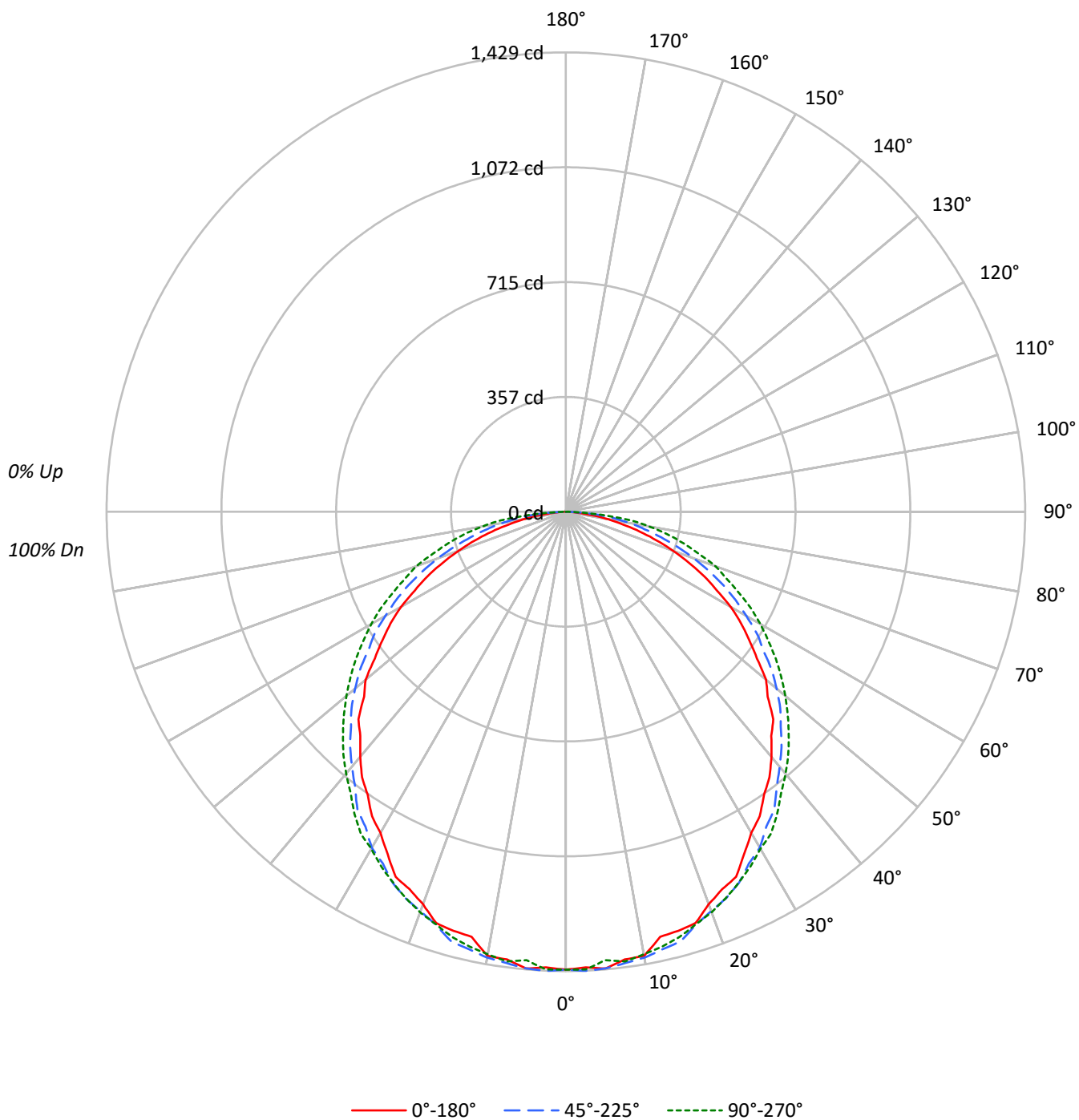
Lumens per Lamp: N/A
Luminaire Lumens: 4158.0 lumens
Efficiency: N/A
Efficacy: 143.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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: P1586637

CATALOG NUMBER: 22CZSP-A-42-L840

Luminous Intensity Polar Plot



TEST NUMBER: P1586637

CATALOG NUMBER: 22CZSP-A-42-L840

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	68
3	89	79	70	63	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	31	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°	4459	4459	4459
5°	4482	4482	4401
10°	4460	4478	4444
15°	4375	4481	4438
20°	4329	4406	4418
25°	4329	4403	4397
30°	4171	4364	4376
35°	4108	4322	4383
40°	4067	4230	4346
45°	4041	4186	4343
50°	3961	4169	4341
55°	3800	4091	4352
60°	3709	4059	4376
65°	3522	4001	4389
70°	3247	3873	4538
75°	2885	3701	4580
80°	2398	3630	4750
85°	1466	3248	4013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4913 cd/sqm

TEST NUMBER: P1586637

CATALOG NUMBER: 22CZSP-A-42-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	3.2
10°-20°	385.9	9.3
20°-30°	582.1	14.0
30°-40°	699.1	16.8
40°-50°	729.8	17.6
50°-60°	671.9	16.2
60°-70°	530.6	12.8
70°-80°	326.8	7.9
80°-90°	96.9	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°	1103.0	26.5
0°-40°	1802.1	43.3
0°-60°	3203.8	77.1
0°-90°	4158.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4158.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1424	1424	1424	1424	1424	
5°	1426	1412	1426	1428	1400	135
15°	1350	1368	1382	1376	1369	381
25°	1253	1262	1274	1269	1272	571
35°	1075	1094	1131	1136	1147	675
45°	912	920	945	966	981	698
55°	696	715	749	783	797	625
65°	475	492	540	579	592	468
75°	238	262	306	355	379	253
85°	41	58	90	107	112	55
90°	0	0	0	0	0	

TEST NUMBER: P1586637

CATALOG NUMBER: 22CZSP-A-42-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1424.1	1424.1	1424.1	1424.1	1424.1
2.5°	1418.8	1433.9	1429.4	1432.1	1425.0
5°	1425.9	1411.7	1425.9	1427.7	1400.2
7.5°	1404.6	1406.4	1416.1	1418.8	1410.8
10°	1402.8	1408.2	1408.2	1399.3	1397.5
12.5°	1354.1	1380.7	1394.0	1400.2	1385.1
15°	1349.6	1368.2	1382.4	1376.2	1369.1
17.5°	1341.6	1336.3	1346.1	1353.2	1345.2
20°	1299.1	1308.0	1322.1	1323.9	1325.7
22.5°	1270.7	1273.4	1301.7	1304.4	1300.9
25°	1253.0	1261.8	1274.3	1268.9	1272.5
27.5°	1200.7	1221.9	1233.5	1244.1	1244.1
30°	1153.7	1178.5	1206.9	1210.4	1210.4
32.5°	1122.6	1139.5	1160.8	1167.8	1187.4
35°	1074.7	1094.2	1130.6	1135.9	1146.6
37.5°	1041.0	1060.5	1077.4	1096.0	1100.5
40°	994.9	1015.3	1034.8	1056.1	1063.2
42.5°	946.2	967.4	993.2	1015.3	1024.2
45°	912.5	919.6	945.3	965.7	980.7
47.5°	851.3	871.7	904.5	930.2	936.4
50°	813.1	821.1	855.7	890.3	891.2
52.5°	749.3	773.2	806.9	839.7	844.2
55°	696.1	714.7	749.3	783.0	797.2
57.5°	646.4	660.6	705.0	738.7	746.6
60°	592.3	607.4	648.2	687.2	698.8
62.5°	529.4	550.7	595.0	632.2	648.2
65°	475.3	492.1	540.0	579.0	592.3
67.5°	414.1	437.2	482.4	525.8	540.0
70°	354.7	377.8	423.0	468.2	495.7
72.5°	296.2	320.1	365.3	417.7	432.7
75°	238.5	261.6	305.9	354.7	378.6
77.5°	181.8	206.6	251.8	300.6	323.7
80°	133.0	152.5	201.3	243.9	263.4
82.5°	82.5	102.9	148.1	188.0	204.8
85°	40.8	58.5	90.4	107.3	111.7
87.5°	12.4	18.6	28.4	37.2	42.6
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1586637

CATALOG NUMBER: 22CZSP-A-42-L840

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	16.66	18.32	17.02	18.64	18.95	17.48	19.15	17.85	19.46	19.77
	3H	18.41	19.92	18.79	20.25	20.61	19.63	21.14	20.01	21.46	21.82
	4H	19.03	20.45	19.43	20.80	21.17	20.54	21.97	20.94	22.31	22.69
	6H	19.43	20.75	19.84	21.12	21.51	21.35	22.67	21.76	23.03	23.42
	8H	19.53	20.80	19.96	21.19	21.58	21.67	22.93	22.09	23.32	23.72
	12H	19.58	20.79	20.01	21.17	21.60	21.87	23.08	22.30	23.47	23.89
4H	2H	17.45	18.87	17.85	19.22	19.60	18.09	19.51	18.49	19.86	20.23
	3H	19.43	20.62	19.83	21.02	21.42	20.47	21.67	20.88	22.06	22.46
	4H	20.16	21.24	20.59	21.66	22.09	21.54	22.62	21.97	23.03	23.47
	6H	20.68	21.63	21.13	22.07	22.52	22.50	23.46	22.96	23.90	24.35
	8H	20.82	21.71	21.28	22.15	22.62	22.90	23.79	23.36	24.23	24.70
	12H	20.89	21.70	21.37	22.17	22.64	23.17	23.97	23.65	24.45	24.91
8H	4H	20.62	21.51	21.08	21.96	22.42	21.83	22.72	22.28	23.16	23.62
	6H	21.28	22.02	21.77	22.51	22.98	22.95	23.70	23.44	24.18	24.66
	8H	21.48	22.15	21.99	22.66	23.14	23.46	24.13	23.97	24.63	25.12
	12H	21.61	22.20	22.12	22.69	23.25	23.83	24.42	24.33	24.91	25.47
12H	4H	20.71	21.52	21.19	21.99	22.46	21.85	22.65	22.33	23.13	23.60
	6H	21.42	22.09	21.92	22.59	23.08	23.00	23.67	23.51	24.17	24.66
	8H	21.69	22.28	22.20	22.77	23.33	23.57	24.16	24.08	24.65	25.21