

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: P1586396

Luminaire Tested: 22CZSP-42-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586396
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-L840-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

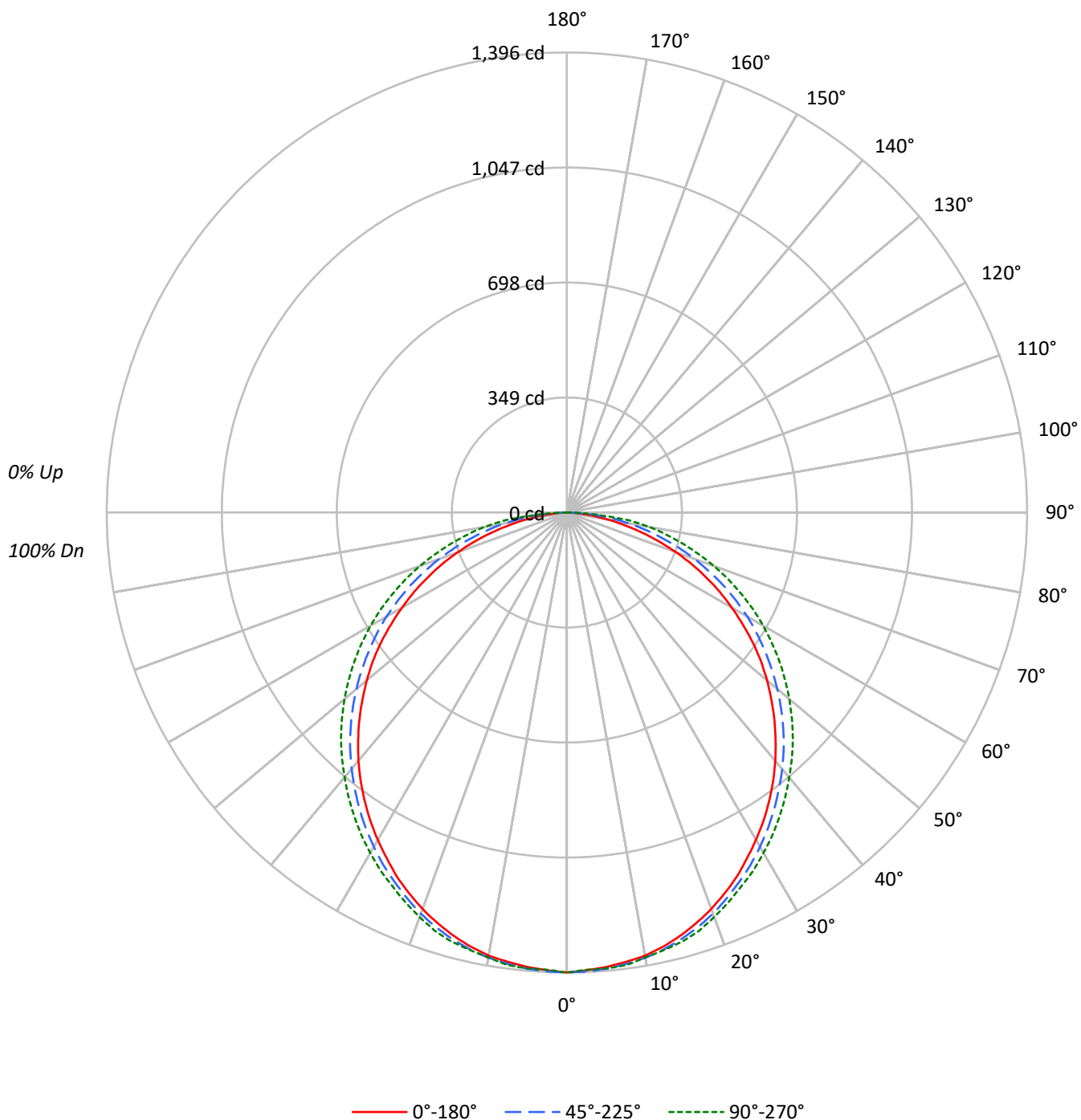
Lumens per Lamp: N/A
Luminaire Lumens: 4075.0 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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

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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			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°	4371	4371	4371
5°	4351	4368	4365
10°	4341	4362	4359
15°	4310	4345	4371
20°	4267	4317	4353
25°	4214	4272	4325
30°	4148	4235	4313
35°	4088	4194	4300
40°	4021	4152	4288
45°	3944	4110	4292
50°	3859	4060	4291
55°	3759	4003	4296
60°	3617	3959	4306
65°	3452	3882	4320
70°	3217	3774	4339
75°	2867	3624	4381
80°	2369	3451	4595
85°	1541	3115	4017

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4740 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.0	3.2
10°-20°	378.0	9.3
20°-30°	570.1	14.0
30°-40°	686.6	16.8
40°-50°	717.1	17.6
50°-60°	658.6	16.2
60°-70°	518.7	12.7
70°-80°	318.2	7.8
80°-90°	95.8	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°	1080.0	26.5
0°-40°	1766.7	43.4
0°-60°	3142.3	77.1
0°-90°	4075.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4075.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1396	1396	1396	1396	1396	
5°	1384	1386	1390	1394	1389	132
15°	1330	1332	1340	1348	1348	375
25°	1220	1222	1237	1252	1252	561
35°	1069	1075	1097	1120	1125	669
45°	891	900	928	960	969	687
55°	688	701	733	774	787	615
65°	466	482	524	568	583	461
75°	237	256	300	347	362	251
85°	43	59	87	110	112	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1395.8	1395.8	1395.8	1395.8	1395.8
2.5°	1390.4	1393.1	1394.0	1394.9	1388.6
5°	1384.2	1386.0	1389.5	1394.0	1388.6
7.5°	1375.2	1377.0	1381.5	1387.7	1385.1
10°	1365.4	1366.3	1371.7	1376.1	1370.8
12.5°	1349.3	1352.0	1358.2	1361.8	1360.0
15°	1329.6	1332.3	1340.4	1348.4	1348.4
17.5°	1306.4	1310.0	1319.8	1330.5	1331.4
20°	1280.4	1283.1	1295.6	1306.4	1306.4
22.5°	1250.9	1254.5	1267.0	1278.7	1280.4
25°	1219.6	1222.3	1236.6	1251.8	1251.8
27.5°	1183.0	1188.3	1206.2	1221.4	1225.0
30°	1147.2	1151.7	1171.4	1190.1	1192.8
32.5°	1109.7	1115.0	1135.6	1156.2	1160.6
35°	1069.4	1074.8	1097.1	1119.5	1124.9
37.5°	1027.4	1033.7	1056.9	1082.8	1088.2
40°	983.6	990.7	1015.8	1043.5	1048.9
42.5°	937.1	946.9	973.7	1002.4	1010.4
45°	890.6	900.4	928.1	960.3	969.3
47.5°	841.4	853.0	881.6	915.6	925.5
50°	792.2	803.9	833.4	870.0	880.8
52.5°	742.2	753.8	784.2	822.6	834.3
55°	688.5	701.0	733.2	774.3	786.9
57.5°	633.1	649.2	683.1	725.2	737.7
60°	577.6	593.7	632.2	673.3	687.6
62.5°	523.1	538.3	577.6	621.4	636.6
65°	465.9	482.0	524.0	567.8	583.0
67.5°	409.5	425.6	467.6	513.3	529.3
70°	351.4	369.3	412.2	457.8	473.9
72.5°	293.3	312.1	355.9	402.4	417.6
75°	237.0	255.7	299.5	346.9	362.1
77.5°	181.5	202.1	245.0	293.3	307.6
80°	131.4	151.1	191.4	238.7	254.8
82.5°	84.1	101.0	141.3	186.0	197.6
85°	42.9	59.0	86.7	110.0	111.8
87.5°	13.4	18.8	28.6	42.9	43.8
90°	0.0	0.0	0.0	0.0	0.0

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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	16.60	18.26	16.97	18.58	18.89	17.43	19.10	17.80	19.41	19.72
	3H	18.36	19.87	18.73	20.19	20.55	19.55	21.06	19.93	21.38	21.74
	4H	18.98	20.40	19.37	20.75	21.12	20.44	21.86	20.84	22.21	22.58
	6H	19.39	20.71	19.80	21.07	21.46	21.22	22.54	21.63	22.90	23.29
	8H	19.50	20.76	19.92	21.15	21.54	21.54	22.80	21.96	23.19	23.59
	12H	19.55	20.76	19.98	21.14	21.57	21.75	22.96	22.18	23.34	23.77
4H	2H	17.37	18.80	17.77	19.14	19.52	18.02	19.44	18.42	19.79	20.17
	3H	19.35	20.55	19.76	20.95	21.35	20.38	21.57	20.78	21.97	22.37
	4H	20.09	21.17	20.52	21.59	22.02	21.43	22.51	21.86	22.93	23.36
	6H	20.62	21.57	21.07	22.01	22.46	22.38	23.33	22.83	23.77	24.23
	8H	20.76	21.66	21.22	22.10	22.56	22.78	23.67	23.24	24.11	24.57
	12H	20.85	21.65	21.33	22.12	22.59	23.05	23.86	23.53	24.33	24.80
8H	4H	20.55	21.44	21.01	21.88	22.34	21.72	22.61	22.18	23.05	23.51
	6H	21.21	21.95	21.70	22.44	22.91	22.83	23.57	23.32	24.06	24.53
	8H	21.42	22.09	21.93	22.59	23.08	23.34	24.01	23.85	24.51	25.00
	12H	21.56	22.15	22.06	22.64	23.20	23.73	24.32	24.23	24.81	25.37
12H	4H	20.64	21.44	21.12	21.91	22.38	21.74	22.54	22.22	23.02	23.49
	6H	21.34	22.01	21.85	22.51	23.00	22.88	23.55	23.38	24.05	24.53
	8H	21.62	22.21	22.12	22.70	23.26	23.45	24.05	23.96	24.54	25.09