

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: P1586394

Luminaire Tested: 22CZSP-42-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586394
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-L835-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

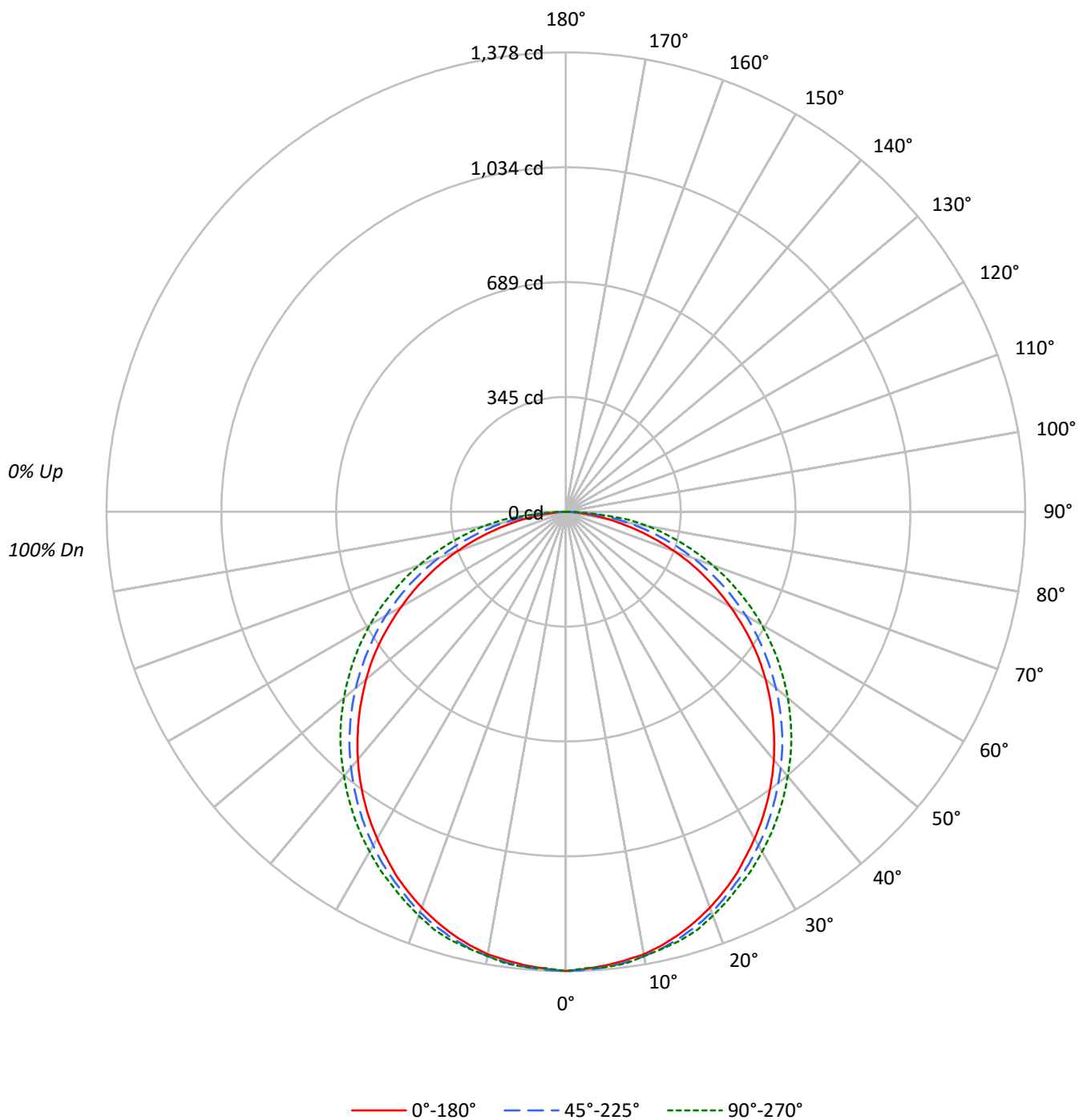
Lumens per Lamp: N/A
Luminaire Lumens: 4022.0 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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

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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°	4314	4314	4314
5°	4294	4311	4308
10°	4285	4305	4302
15°	4254	4289	4314
20°	4211	4261	4297
25°	4159	4217	4269
30°	4094	4180	4257
35°	4035	4140	4244
40°	3968	4098	4232
45°	3893	4057	4237
50°	3809	4007	4235
55°	3710	3951	4240
60°	3570	3908	4250
65°	3407	3832	4263
70°	3175	3725	4282
75°	2830	3578	4324
80°	2339	3406	4535
85°	1523	3075	3963

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4678 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	3.2
10°-20°	373.1	9.3
20°-30°	562.6	14.0
30°-40°	677.7	16.8
40°-50°	707.8	17.6
50°-60°	650.0	16.2
60°-70°	512.0	12.7
70°-80°	314.1	7.8
80°-90°	94.5	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°	1066.0	26.5
0°-40°	1743.7	43.4
0°-60°	3101.4	77.1
0°-90°	4022.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4022.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1378	1378	1378	1378	1378	
5°	1366	1368	1372	1376	1371	130
15°	1312	1315	1323	1331	1331	370
25°	1204	1206	1221	1236	1236	554
35°	1056	1061	1083	1105	1110	660
45°	879	889	916	948	957	678
55°	680	692	724	764	777	607
65°	460	476	517	560	575	455
75°	234	252	296	342	357	248
85°	42	58	86	109	110	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1377.6	1377.6	1377.6	1377.6	1377.6
2.5°	1372.3	1375.0	1375.9	1376.8	1370.6
5°	1366.2	1367.9	1371.5	1375.9	1370.6
7.5°	1357.3	1359.1	1363.5	1369.7	1367.1
10°	1347.6	1348.5	1353.8	1358.2	1352.9
12.5°	1331.8	1334.4	1340.6	1344.1	1342.3
15°	1312.3	1315.0	1322.9	1330.9	1330.9
17.5°	1289.4	1292.9	1302.6	1313.2	1314.1
20°	1263.8	1266.4	1278.8	1289.4	1289.4
22.5°	1234.7	1238.2	1250.6	1262.0	1263.8
25°	1203.8	1206.4	1220.6	1235.6	1235.6
27.5°	1167.6	1172.9	1190.5	1205.5	1209.1
30°	1132.3	1136.7	1156.1	1174.7	1177.3
32.5°	1095.2	1100.5	1120.8	1141.1	1145.5
35°	1055.5	1060.8	1082.9	1104.9	1110.2
37.5°	1014.0	1020.2	1043.2	1068.8	1074.0
40°	970.8	977.9	1002.6	1029.9	1035.2
42.5°	924.9	934.6	961.1	989.3	997.3
45°	879.0	888.7	916.1	947.8	956.7
47.5°	830.5	841.9	870.2	903.7	913.4
50°	781.9	793.4	822.5	858.7	869.3
52.5°	732.5	744.0	774.0	811.9	823.4
55°	679.6	691.9	723.7	764.3	776.6
57.5°	624.8	640.7	674.3	715.7	728.1
60°	570.1	586.0	624.0	664.6	678.7
62.5°	516.3	531.3	570.1	613.4	628.4
65°	459.8	475.7	517.2	560.4	575.4
67.5°	404.2	420.1	461.6	506.6	522.5
70°	346.8	364.5	406.9	451.9	467.7
72.5°	289.5	308.0	351.3	397.1	412.1
75°	233.9	252.4	295.7	342.4	357.4
77.5°	179.2	199.5	241.8	289.5	303.6
80°	129.7	149.1	188.9	235.6	251.5
82.5°	83.0	99.7	139.4	183.6	195.0
85°	42.4	58.2	85.6	108.6	110.3
87.5°	13.2	18.5	28.2	42.4	43.2
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	16.56	18.22	16.92	18.53	18.85	17.39	19.05	17.75	19.36	19.68
	3H	18.31	19.82	18.69	20.15	20.51	19.50	21.01	19.88	21.34	21.70
	4H	18.93	20.35	19.33	20.70	21.08	20.39	21.81	20.79	22.16	22.54
	6H	19.34	20.66	19.75	21.03	21.42	21.17	22.49	21.58	22.86	23.25
	8H	19.45	20.71	19.87	21.10	21.50	21.49	22.76	21.92	23.14	23.54
	12H	19.50	20.71	19.93	21.09	21.52	21.70	22.92	22.13	23.30	23.73
4H	2H	17.33	18.75	17.73	19.10	19.47	17.97	19.40	18.37	19.74	20.12
	3H	19.31	20.50	19.71	20.90	21.30	20.33	21.53	20.74	21.92	22.32
	4H	20.04	21.13	20.47	21.54	21.98	21.38	22.47	21.81	22.88	23.32
	6H	20.57	21.52	21.02	21.96	22.42	22.33	23.29	22.79	23.73	24.18
	8H	20.72	21.61	21.18	22.05	22.52	22.73	23.62	23.19	24.07	24.53
	12H	20.80	21.61	21.28	22.08	22.55	23.01	23.81	23.49	24.29	24.75
8H	4H	20.50	21.39	20.96	21.84	22.30	21.67	22.56	22.13	23.00	23.47
	6H	21.16	21.91	21.65	22.39	22.87	22.78	23.53	23.27	24.01	24.49
	8H	21.37	22.04	21.88	22.55	23.03	23.29	23.96	23.80	24.47	24.95
	12H	21.51	22.10	22.02	22.59	23.15	23.68	24.27	24.19	24.76	25.32
12H	4H	20.59	21.40	21.07	21.87	22.34	21.70	22.50	22.17	22.97	23.44
	6H	21.29	21.96	21.80	22.47	22.95	22.83	23.50	23.34	24.00	24.49
	8H	21.57	22.16	22.08	22.65	23.21	23.41	24.00	23.91	24.49	25.05