

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: P1584274

Luminaire Tested: 14CZSP-42-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-42-L835-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 3500 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

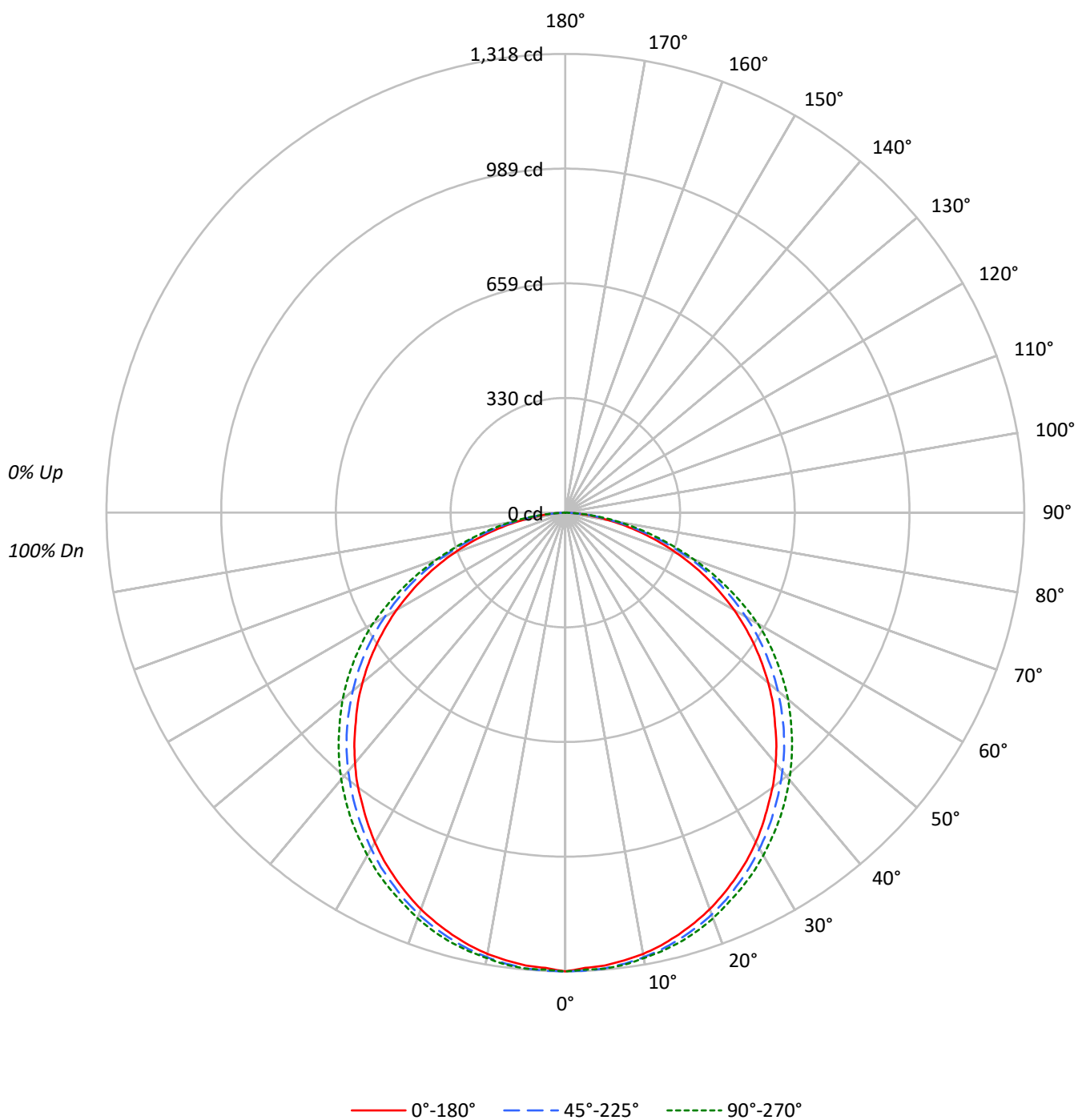
Lumens per Lamp: N/A
Luminaire Lumens: 3811.0 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.5
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	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69	65	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4442	4442	4442
5°	4417	4446	4449
10°	4405	4437	4447
15°	4379	4424	4456
20°	4349	4407	4448
25°	4305	4373	4434
30°	4256	4339	4424
35°	4188	4301	4417
40°	4133	4266	4404
45°	4055	4229	4386
50°	3987	4179	4379
55°	3892	4119	4350
60°	3773	4037	4306
65°	3605	3927	4128
70°	3361	3708	3874
75°	3001	3345	3535
80°	2461	2819	3091
85°	1647	2061	2300

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4386 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	3.3
10°-20°	357.9	9.4
20°-30°	542.0	14.2
30°-40°	654.5	17.2
40°-50°	684.0	17.9
50°-60°	626.8	16.4
60°-70°	483.8	12.7
70°-80°	272.2	7.1
80°-90°	65.1	1.7
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°	1024.7	26.9
0°-40°	1679.2	44.1
0°-60°	2989.9	78.5
0°-90°	3811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3811.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1318	1318	1318	1318	1318	
5°	1306	1315	1314	1315	1315	124
15°	1255	1266	1268	1273	1277	354
25°	1158	1168	1176	1182	1193	534
35°	1018	1031	1046	1060	1074	638
45°	851	868	887	905	920	658
55°	662	680	701	723	740	592
65°	452	472	492	512	518	447
75°	230	252	257	268	272	244
85°	43	49	53	58	60	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1318.2	1318.2	1318.2	1318.2	1318.2
2.5°	1309.3	1319.4	1317.1	1320.5	1314.3
5°	1305.9	1315.4	1314.3	1315.4	1315.4
7.5°	1297.5	1307.6	1307.0	1308.7	1309.8
10°	1287.4	1296.9	1296.9	1298.6	1299.7
12.5°	1273.4	1283.4	1284.6	1287.4	1289.6
15°	1255.4	1265.5	1268.3	1273.4	1277.3
17.5°	1235.2	1245.9	1250.4	1255.4	1260.5
20°	1212.8	1222.3	1229.0	1233.0	1240.3
22.5°	1186.4	1197.1	1204.4	1208.3	1216.1
25°	1157.8	1167.9	1176.3	1182.5	1192.6
27.5°	1127.5	1137.6	1147.7	1155.0	1166.8
30°	1093.8	1104.5	1115.2	1126.4	1137.0
32.5°	1057.4	1069.7	1081.5	1093.8	1105.6
35°	1018.1	1031.0	1045.6	1059.6	1073.7
37.5°	981.7	993.4	1008.6	1023.7	1037.8
40°	939.6	952.5	969.9	986.7	1001.3
42.5°	897.0	911.0	930.1	946.3	962.0
45°	851.0	867.8	887.4	905.4	920.5
47.5°	808.3	822.9	842.5	862.2	877.9
50°	760.6	776.9	797.1	817.9	835.3
52.5°	712.4	729.2	750.0	770.7	788.7
55°	662.5	679.9	701.2	723.1	740.5
57.5°	611.4	629.9	651.8	673.7	691.1
60°	559.8	578.3	599.1	623.2	638.9
62.5°	506.0	526.7	546.4	568.8	578.3
65°	452.1	471.8	492.5	512.1	517.8
67.5°	397.2	417.3	435.9	448.8	456.1
70°	341.1	362.9	376.4	388.7	393.2
72.5°	285.5	307.4	315.3	327.0	331.5
75°	230.5	251.9	256.9	267.6	271.5
77.5°	177.3	196.9	198.6	210.9	214.3
80°	126.8	142.5	145.3	157.1	159.3
82.5°	81.3	92.6	96.5	106.6	109.9
85°	42.6	48.8	53.3	58.3	59.5
87.5°	14.0	17.4	14.6	15.1	14.0
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	16.89	18.54	17.26	18.86	19.17	17.43	19.08	17.80	19.40	19.71
	3H	18.67	20.16	19.05	20.49	20.85	19.29	20.78	19.67	21.11	21.47
	4H	19.29	20.70	19.69	21.05	21.42	19.96	21.37	20.36	21.71	22.09
	6H	19.70	21.01	20.11	21.37	21.76	20.44	21.74	20.85	22.10	22.49
	8H	19.81	21.05	20.23	21.44	21.84	20.58	21.83	21.01	22.22	22.61
	12H	19.86	21.05	20.29	21.43	21.86	20.66	21.86	21.09	22.24	22.67
4H	2H	17.62	19.02	18.01	19.37	19.75	18.04	19.45	18.44	19.79	20.17
	3H	19.61	20.79	20.02	21.19	21.59	20.11	21.29	20.52	21.69	22.09
	4H	20.37	21.44	20.80	21.85	22.29	20.91	21.98	21.34	22.39	22.82
	6H	20.90	21.83	21.35	22.27	22.73	21.51	22.44	21.96	22.88	23.34
	8H	21.04	21.91	21.50	22.35	22.82	21.70	22.57	22.16	23.02	23.48
	12H	21.11	21.90	21.59	22.38	22.84	21.82	22.61	22.30	23.08	23.55
8H	4H	20.71	21.58	21.17	22.02	22.49	21.18	22.06	21.64	22.50	22.96
	6H	21.35	22.07	21.84	22.56	23.03	21.90	22.62	22.39	23.11	23.58
	8H	21.55	22.20	22.06	22.70	23.19	22.15	22.80	22.66	23.31	23.80
	12H	21.68	22.25	22.18	22.74	23.30	22.33	22.91	22.84	23.40	23.96
12H	4H	20.74	21.53	21.22	22.00	22.47	21.21	21.99	21.69	22.47	22.94
	6H	21.40	22.05	21.91	22.56	23.04	21.93	22.59	22.44	23.09	23.58
	8H	21.65	22.23	22.16	22.72	23.28	22.24	22.82	22.75	23.31	23.87