

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: P1584289

Luminaire Tested: 14CZSP-42-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2603-724-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-42-L945
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

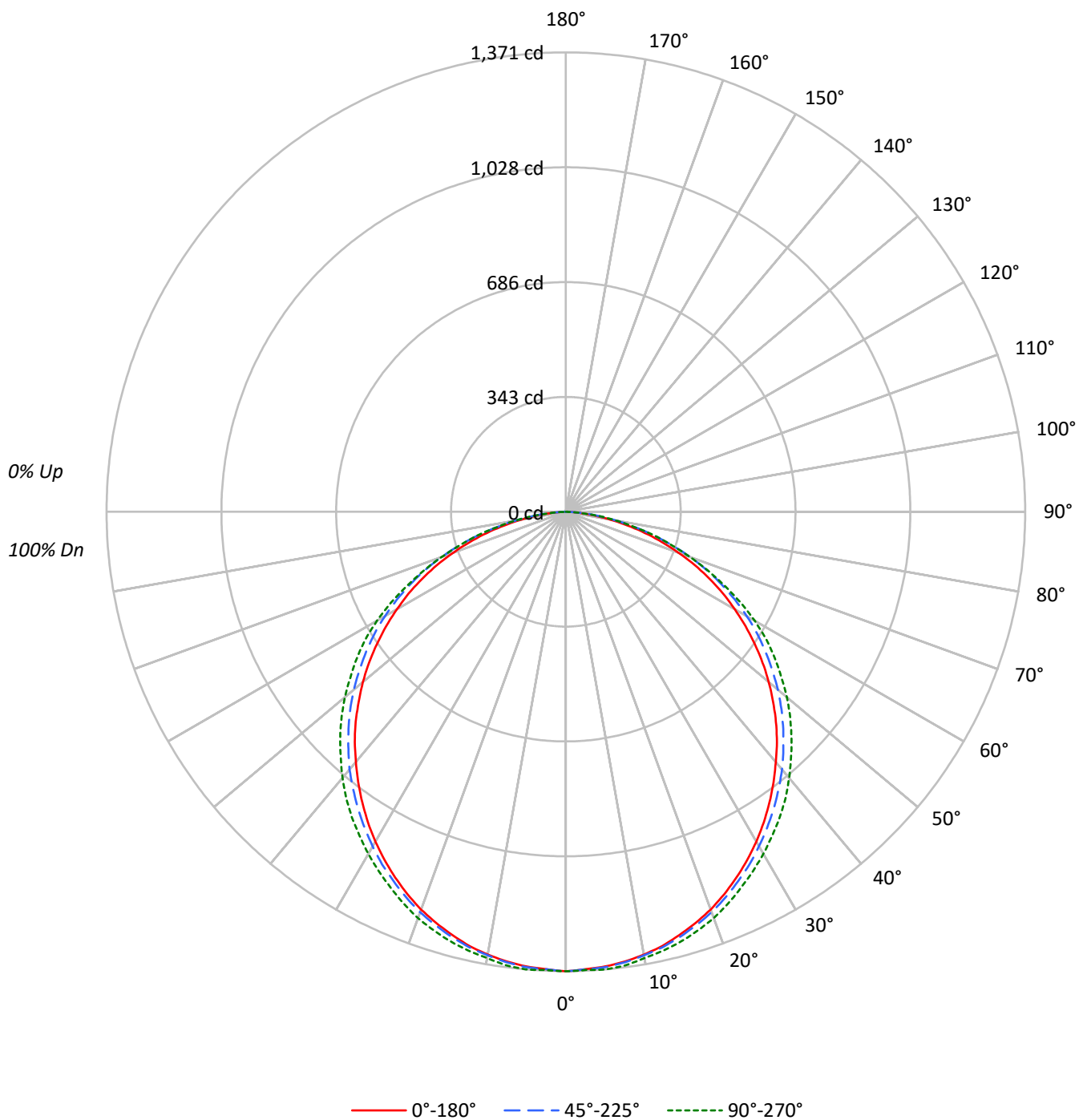
Lumens per Lamp: N/A
Luminaire Lumens: 3957.0 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	53		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	29		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°	4621	4621	4621
5°	4607	4615	4639
10°	4592	4600	4628
15°	4563	4583	4633
20°	4530	4560	4627
25°	4479	4523	4601
30°	4423	4487	4587
35°	4357	4449	4580
40°	4288	4417	4561
45°	4226	4372	4539
50°	4145	4329	4514
55°	4045	4273	4473
60°	3922	4206	4388
65°	3770	4088	4172
70°	3537	3884	3884
75°	3177	3528	3544
80°	2618	2982	2982
85°	1813	2177	1906

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4539 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	3.3
10°-20°	372.0	9.4
20°-30°	563.1	14.2
30°-40°	679.7	17.2
40°-50°	710.2	17.9
50°-60°	650.6	16.4
60°-70°	501.6	12.7
70°-80°	283.0	7.2
80°-90°	67.0	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°	1065.0	26.9
0°-40°	1744.7	44.1
0°-60°	3105.5	78.5
0°-90°	3957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3957.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1371	1371	1371	1371	1371	
5°	1362	1371	1364	1367	1371	129
15°	1308	1316	1314	1324	1328	369
25°	1205	1215	1216	1233	1238	555
35°	1059	1073	1082	1105	1113	663
45°	887	902	917	944	953	684
55°	689	706	727	754	761	615
65°	473	488	513	530	523	467
75°	244	263	271	278	272	259
85°	47	53	56	60	49	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1371.4	1371.4	1371.4	1371.4	1371.4
2.5°	1366.7	1376.1	1366.7	1371.4	1369.0
5°	1362.0	1371.4	1364.3	1366.7	1371.4
7.5°	1353.8	1363.2	1356.1	1359.6	1365.5
10°	1342.0	1351.4	1344.4	1350.3	1352.6
12.5°	1328.0	1336.2	1331.5	1338.5	1342.0
15°	1308.0	1316.2	1313.9	1324.4	1328.0
17.5°	1286.9	1296.3	1293.9	1306.8	1310.4
20°	1263.4	1271.7	1271.7	1283.4	1290.4
22.5°	1235.3	1244.7	1245.8	1258.7	1265.8
25°	1204.8	1215.3	1216.5	1232.9	1237.6
27.5°	1171.9	1182.5	1187.2	1204.8	1209.5
30°	1136.7	1147.3	1153.2	1173.1	1179.0
32.5°	1099.2	1112.1	1118.0	1140.3	1146.1
35°	1059.3	1073.4	1081.6	1105.1	1113.3
37.5°	1018.3	1032.3	1042.9	1067.5	1076.9
40°	974.9	990.1	1004.2	1028.8	1037.0
42.5°	932.6	947.9	960.8	986.6	994.8
45°	886.9	902.1	917.4	944.4	952.6
47.5°	838.8	855.2	872.8	897.4	908.0
50°	790.7	807.1	825.9	851.7	861.1
52.5°	740.2	757.8	776.6	803.6	810.6
55°	688.6	706.2	727.3	754.3	761.4
57.5°	635.8	654.6	676.9	702.7	709.7
60°	581.9	600.6	624.1	648.7	651.1
62.5°	529.1	545.5	569.0	592.4	588.9
65°	472.8	488.0	512.7	530.2	523.2
67.5°	416.5	432.9	455.2	468.1	458.7
70°	359.0	376.6	394.2	403.6	394.2
72.5°	301.5	320.3	333.2	339.0	330.8
75°	244.0	262.8	271.0	278.0	272.2
77.5°	188.9	206.5	210.0	218.2	210.0
80°	134.9	151.3	153.7	161.9	153.7
82.5°	86.8	97.4	102.1	109.1	100.9
85°	46.9	52.8	56.3	59.8	49.3
87.5°	16.4	18.8	16.4	14.1	5.9
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	17.03	18.68	17.39	18.99	19.31	17.57	19.22	17.94	19.54	19.85
	3H	18.82	20.31	19.19	20.64	21.00	19.38	20.87	19.76	21.20	21.56
	4H	19.46	20.86	19.86	21.21	21.59	20.03	21.43	20.42	21.78	22.16
	6H	19.88	21.19	20.29	21.55	21.94	20.47	21.77	20.88	22.13	22.53
	8H	19.99	21.24	20.41	21.62	22.02	20.59	21.84	21.01	22.22	22.62
	12H	20.04	21.24	20.47	21.62	22.05	20.65	21.84	21.08	22.22	22.65
4H	2H	17.76	19.16	18.15	19.51	19.89	18.18	19.59	18.58	19.94	20.31
	3H	19.76	20.94	20.17	21.34	21.74	20.22	21.40	20.63	21.80	22.20
	4H	20.53	21.60	20.96	22.01	22.45	21.00	22.07	21.43	22.48	22.91
	6H	21.08	22.01	21.53	22.45	22.90	21.57	22.50	22.02	22.94	23.39
	8H	21.22	22.09	21.68	22.54	23.00	21.73	22.61	22.19	23.05	23.51
	12H	21.31	22.09	21.79	22.57	23.03	21.82	22.61	22.30	23.08	23.55
8H	4H	20.87	21.75	21.33	22.19	22.65	21.29	22.16	21.75	22.60	23.07
	6H	21.53	22.26	22.03	22.75	23.22	21.97	22.69	22.46	23.18	23.66
	8H	21.74	22.39	22.25	22.90	23.38	22.20	22.85	22.71	23.36	23.84
	12H	21.88	22.45	22.38	22.94	23.50	22.35	22.93	22.86	23.42	23.98
12H	4H	20.91	21.70	21.39	22.17	22.64	21.31	22.10	21.79	22.57	23.04
	6H	21.59	22.24	22.10	22.75	23.23	22.01	22.66	22.52	23.17	23.65
	8H	21.85	22.42	22.35	22.91	23.47	22.29	22.87	22.80	23.36	23.92