

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: P1584287

Luminaire Tested: 14CZSP-42-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584287
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-L940
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

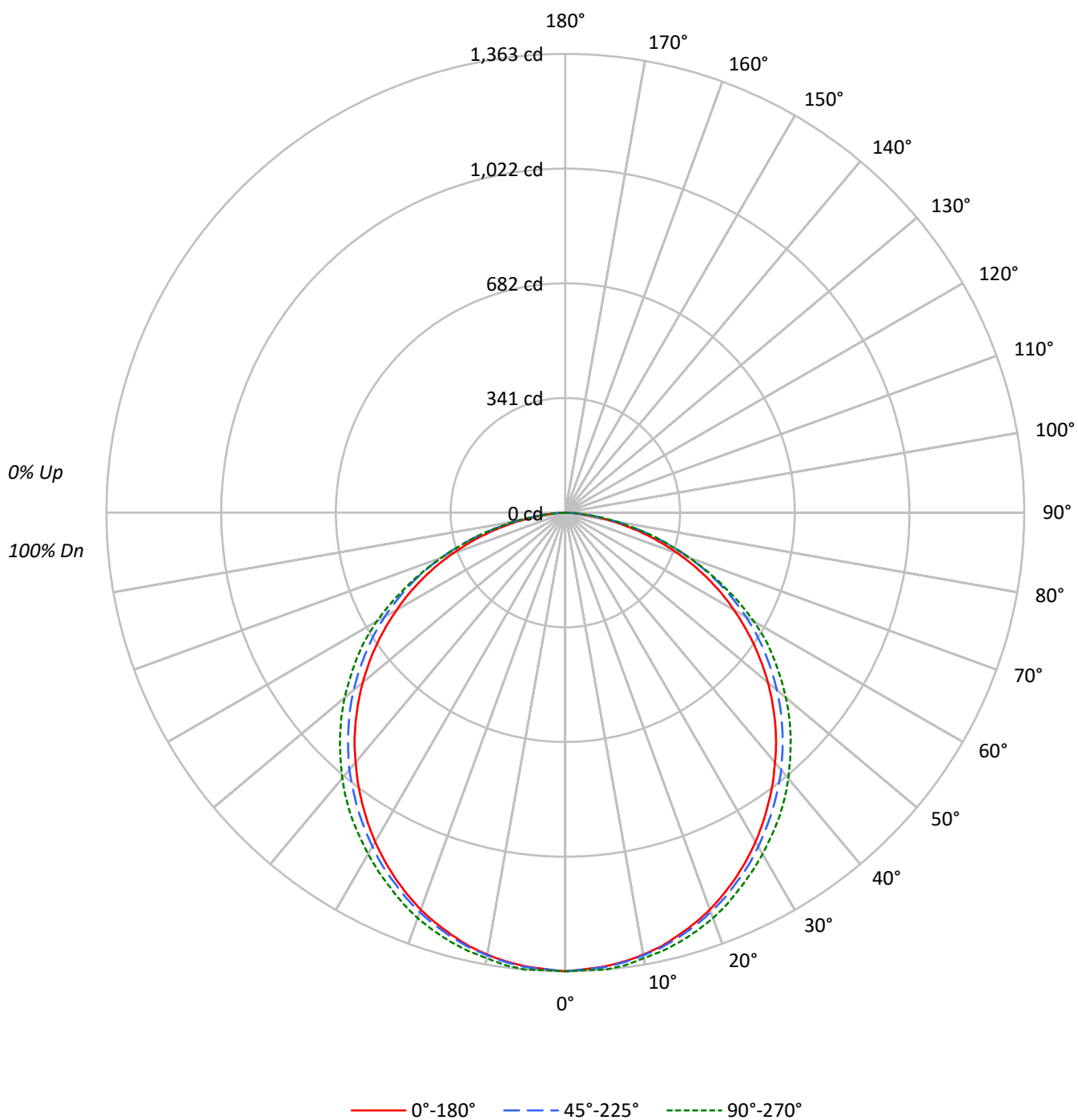
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3932.0 lumens
Efficiency: N/A
Efficacy: 138.0 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°	4592	4592	4592
5°	4578	4586	4609
10°	4563	4571	4599
15°	4534	4555	4603
20°	4502	4531	4598
25°	4451	4494	4572
30°	4395	4459	4558
35°	4330	4421	4551
40°	4261	4389	4533
45°	4200	4344	4510
50°	4119	4302	4485
55°	4020	4246	4444
60°	3897	4180	4360
65°	3746	4061	4145
70°	3514	3859	3859
75°	3157	3506	3520
80°	2602	2963	2963
85°	1802	2165	1894

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4510 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.1	3.3
10°-20°	369.7	9.4
20°-30°	559.5	14.2
30°-40°	675.5	17.2
40°-50°	705.7	17.9
50°-60°	646.5	16.4
60°-70°	498.4	12.7
70°-80°	281.2	7.2
80°-90°	66.6	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°	1058.3	26.9
0°-40°	1733.7	44.1
0°-60°	3085.9	78.5
0°-90°	3932.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3932.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1363	1363	1363	1363	1363	
5°	1353	1363	1356	1358	1363	129
15°	1300	1308	1306	1316	1320	367
25°	1197	1208	1209	1225	1230	552
35°	1053	1067	1075	1098	1106	659
45°	881	896	912	938	946	679
55°	684	702	723	750	756	611
65°	470	485	509	527	520	464
75°	242	261	269	276	270	257
85°	47	52	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°	1362.7	1362.7	1362.7	1362.7	1362.7
2.5°	1358.0	1367.4	1358.0	1362.7	1360.4
5°	1353.4	1362.7	1355.7	1358.0	1362.7
7.5°	1345.2	1354.5	1347.6	1351.0	1356.9
10°	1333.6	1342.9	1335.9	1341.7	1344.1
12.5°	1319.6	1327.7	1323.1	1330.1	1333.6
15°	1299.8	1307.9	1305.6	1316.1	1319.6
17.5°	1278.8	1288.1	1285.8	1298.6	1302.1
20°	1255.5	1263.6	1263.6	1275.3	1282.3
22.5°	1227.5	1236.8	1238.0	1250.8	1257.8
25°	1197.2	1207.7	1208.8	1225.2	1229.8
27.5°	1164.5	1175.0	1179.7	1197.2	1201.8
30°	1129.6	1140.1	1145.9	1165.7	1171.5
32.5°	1092.3	1105.1	1110.9	1133.1	1138.9
35°	1052.6	1066.6	1074.8	1098.1	1106.3
37.5°	1011.8	1025.8	1036.3	1060.8	1070.1
40°	968.7	983.9	997.8	1022.3	1030.5
42.5°	926.7	941.9	954.7	980.4	988.5
45°	881.3	896.4	911.6	938.4	946.5
47.5°	833.5	849.8	867.3	891.8	902.3
50°	785.7	802.0	820.7	846.3	855.6
52.5°	735.6	753.0	771.7	798.5	805.5
55°	684.3	701.8	722.7	749.5	756.5
57.5°	631.8	650.5	672.6	698.3	705.2
60°	578.2	596.8	620.2	644.6	647.0
62.5°	525.7	542.1	565.4	588.7	585.2
65°	469.8	484.9	509.4	526.9	519.9
67.5°	413.8	430.1	452.3	465.1	455.8
70°	356.7	374.2	391.7	401.0	391.7
72.5°	299.6	318.2	331.1	336.9	328.7
75°	242.5	261.1	269.3	276.3	270.4
77.5°	187.7	205.2	208.7	216.8	208.7
80°	134.1	150.4	152.7	160.9	152.7
82.5°	86.3	96.8	101.4	108.4	100.3
85°	46.6	52.5	56.0	59.5	49.0
87.5°	16.3	18.7	16.3	14.0	5.8
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	17.01	18.66	17.37	18.97	19.29	17.55	19.20	17.92	19.52	19.83
	3H	18.80	20.29	19.17	20.62	20.97	19.36	20.85	19.74	21.18	21.54
	4H	19.44	20.84	19.83	21.19	21.56	20.00	21.41	20.40	21.76	22.13
	6H	19.86	21.16	20.27	21.53	21.92	20.44	21.75	20.85	22.11	22.50
	8H	19.97	21.21	20.39	21.60	22.00	20.57	21.81	20.99	22.20	22.60
	12H	20.02	21.22	20.45	21.60	22.03	20.62	21.82	21.05	22.20	22.63
4H	2H	17.74	19.14	18.13	19.49	19.86	18.16	19.57	18.56	19.91	20.29
	3H	19.74	20.92	20.15	21.32	21.72	20.20	21.38	20.61	21.77	22.17
	4H	20.51	21.58	20.94	21.99	22.43	20.98	22.04	21.41	22.46	22.89
	6H	21.05	21.99	21.51	22.43	22.88	21.54	22.48	22.00	22.92	23.37
	8H	21.20	22.07	21.66	22.51	22.98	21.71	22.58	22.17	23.02	23.49
	12H	21.28	22.07	21.76	22.54	23.01	21.80	22.59	22.28	23.06	23.53
8H	4H	20.85	21.73	21.31	22.17	22.63	21.26	22.14	21.72	22.58	23.04
	6H	21.51	22.24	22.00	22.72	23.20	21.95	22.67	22.44	23.16	23.63
	8H	21.72	22.37	22.23	22.87	23.36	22.18	22.83	22.69	23.34	23.82
	12H	21.86	22.43	22.36	22.92	23.48	22.33	22.91	22.84	23.40	23.96
12H	4H	20.89	21.67	21.37	22.15	22.62	21.29	22.08	21.77	22.55	23.02
	6H	21.57	22.22	22.08	22.72	23.21	21.99	22.64	22.50	23.15	23.63
	8H	21.83	22.40	22.33	22.89	23.45	22.27	22.85	22.78	23.34	23.90