

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: P1584286

Luminaire Tested: 14CZSP-42-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584286
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-L940-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

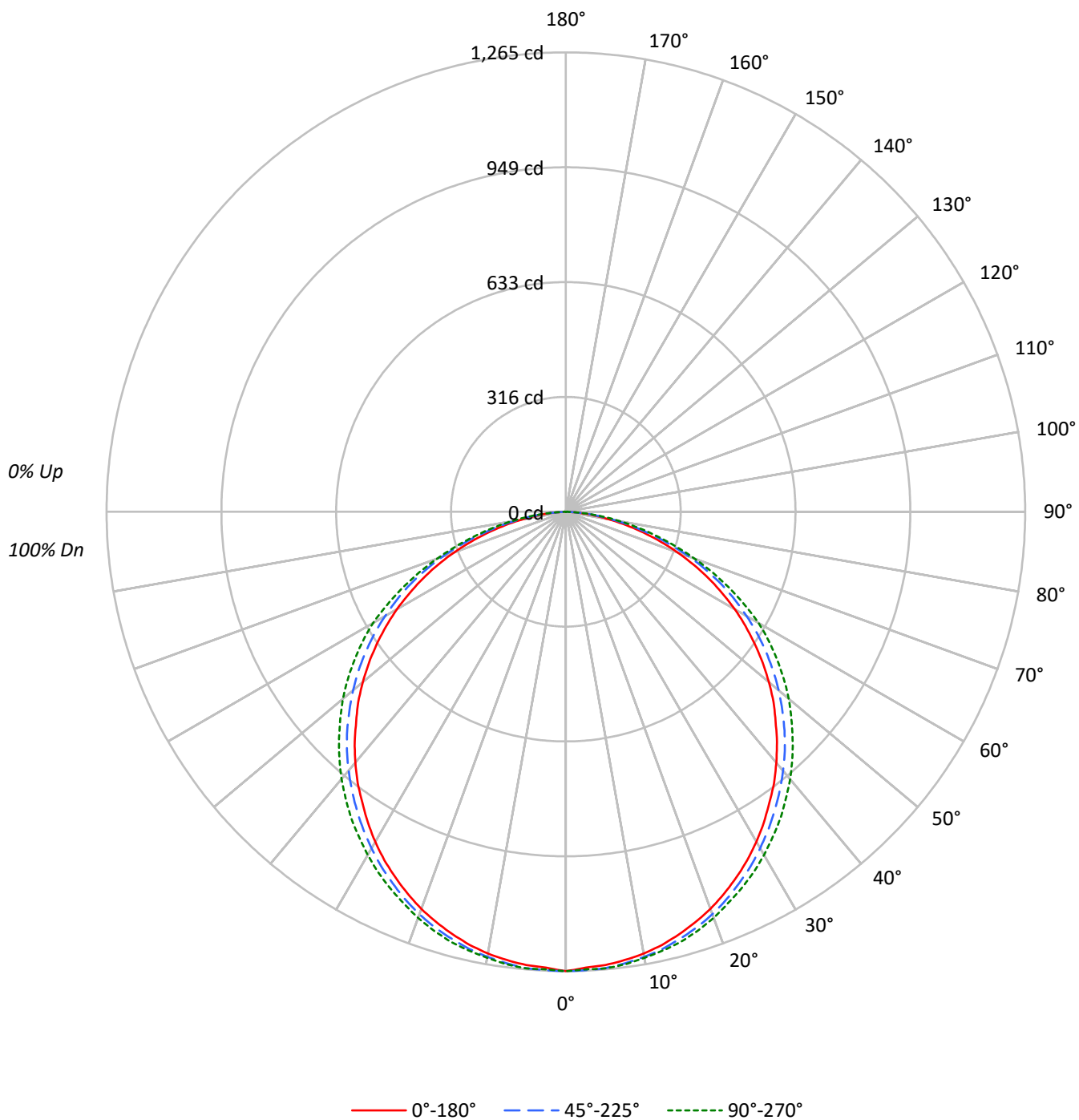
Lumens per Lamp: N/A
Luminaire Lumens: 3657.0 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1584286

CATALOG NUMBER: 14CZSP-42-L940-S

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4263	4263	4263
5°	4239	4266	4270
10°	4227	4258	4267
15°	4203	4246	4276
20°	4173	4229	4267
25°	4131	4197	4255
30°	4084	4164	4245
35°	4019	4127	4238
40°	3966	4094	4226
45°	3891	4058	4209
50°	3826	4010	4202
55°	3735	3953	4174
60°	3620	3874	4132
65°	3460	3768	3961
70°	3225	3559	3717
75°	2880	3209	3391
80°	2362	2705	2967
85°	1581	1976	2208

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4209 cd/sqm

TEST NUMBER: P1584286

CATALOG NUMBER: 14CZSP-42-L940-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	3.3
10°-20°	343.5	9.4
20°-30°	520.1	14.2
30°-40°	628.0	17.2
40°-50°	656.3	17.9
50°-60°	601.4	16.4
60°-70°	464.3	12.7
70°-80°	261.1	7.1
80°-90°	62.5	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°	983.3	26.9
0°-40°	1611.4	44.1
0°-60°	2869.1	78.5
0°-90°	3657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3657.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1265	1265	1265	1265	1265	
5°	1253	1262	1261	1262	1262	119
15°	1205	1214	1217	1222	1226	340
25°	1111	1121	1129	1135	1144	512
35°	977	989	1003	1017	1030	612
45°	817	833	852	869	883	631
55°	636	652	673	694	710	568
65°	434	453	473	492	497	429
75°	221	242	246	257	260	235
85°	41	47	51	56	57	53
90°	0	0	0	0	0	

TEST NUMBER: P1584286

CATALOG NUMBER: 14CZSP-42-L940-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1265.0	1265.0	1265.0	1265.0	1265.0
2.5°	1256.3	1266.0	1263.9	1267.1	1261.2
5°	1253.1	1262.3	1261.2	1262.3	1262.3
7.5°	1245.0	1254.7	1254.2	1255.8	1256.9
10°	1235.4	1244.5	1244.5	1246.1	1247.2
12.5°	1221.9	1231.6	1232.7	1235.4	1237.5
15°	1204.7	1214.4	1217.1	1221.9	1225.7
17.5°	1185.3	1195.5	1199.8	1204.7	1209.5
20°	1163.8	1172.9	1179.4	1183.1	1190.1
22.5°	1138.5	1148.7	1155.7	1159.5	1167.0
25°	1111.0	1120.7	1128.8	1134.7	1144.4
27.5°	1081.9	1091.6	1101.3	1108.3	1119.6
30°	1049.6	1059.9	1070.1	1080.9	1091.1
32.5°	1014.7	1026.5	1037.8	1049.6	1061.0
35°	977.0	989.4	1003.4	1016.8	1030.3
37.5°	942.0	953.3	967.8	982.4	995.8
40°	901.6	914.0	930.7	946.8	960.8
42.5°	860.7	874.2	892.5	908.1	923.2
45°	816.6	832.7	851.6	868.8	883.3
47.5°	775.7	789.7	808.5	827.3	842.4
50°	729.9	745.5	764.9	784.8	801.5
52.5°	683.6	699.8	719.7	739.6	756.8
55°	635.7	652.4	672.9	693.8	710.5
57.5°	586.7	604.5	625.5	646.5	663.2
60°	537.2	555.0	574.9	598.0	613.1
62.5°	485.5	505.4	524.3	545.8	555.0
65°	433.9	452.7	472.6	491.5	496.8
67.5°	381.1	400.5	418.2	430.6	437.6
70°	327.3	348.3	361.2	373.0	377.3
72.5°	274.0	295.0	302.5	313.8	318.1
75°	221.2	241.7	246.5	256.8	260.5
77.5°	170.1	188.9	190.6	202.4	205.6
80°	121.7	136.7	139.4	150.7	152.9
82.5°	78.1	88.8	92.6	102.3	105.5
85°	40.9	46.8	51.1	56.0	57.1
87.5°	13.5	16.7	14.0	14.5	13.5
90°	0.0	0.0	0.0	0.0	0.0

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CATALOG NUMBER: 14CZSP-42-L940-S

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	16.75	18.40	17.11	18.71	19.03	17.29	18.94	17.65	19.25	19.57
	3H	18.53	20.02	18.90	20.34	20.70	19.15	20.64	19.52	20.97	21.33
	4H	19.15	20.56	19.55	20.91	21.28	19.81	21.22	20.21	21.57	21.94
	6H	19.56	20.87	19.97	21.23	21.62	20.29	21.60	20.70	21.96	22.35
	8H	19.66	20.91	20.09	21.30	21.70	20.44	21.68	20.86	22.07	22.47
	12H	19.71	20.91	20.14	21.29	21.72	20.52	21.72	20.95	22.10	22.53
4H	2H	17.47	18.88	17.87	19.23	19.60	17.90	19.30	18.29	19.65	20.03
	3H	19.47	20.65	19.88	21.05	21.45	19.97	21.15	20.38	21.55	21.94
	4H	20.23	21.29	20.66	21.71	22.14	20.76	21.83	21.19	22.25	22.68
	6H	20.75	21.69	21.21	22.13	22.58	21.37	22.30	21.82	22.74	23.20
	8H	20.89	21.77	21.35	22.21	22.67	21.56	22.43	22.02	22.87	23.34
	12H	20.97	21.76	21.45	22.23	22.70	21.68	22.46	22.16	22.94	23.41
8H	4H	20.56	21.44	21.02	21.88	22.34	21.04	21.91	21.50	22.36	22.82
	6H	21.20	21.93	21.70	22.42	22.89	21.75	22.48	22.25	22.97	23.44
	8H	21.40	22.05	21.91	22.56	23.05	22.01	22.66	22.52	23.17	23.65
	12H	21.53	22.11	22.04	22.60	23.16	22.19	22.77	22.70	23.26	23.82
12H	4H	20.60	21.39	21.08	21.86	22.33	21.06	21.85	21.54	22.32	22.79
	6H	21.26	21.91	21.77	22.42	22.90	21.79	22.44	22.30	22.95	23.43
	8H	21.51	22.09	22.02	22.58	23.14	22.10	22.67	22.60	23.16	23.72