

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: P1584576

Luminaire Tested: 14CZSP-A-42-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584576
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-A-42-L840-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

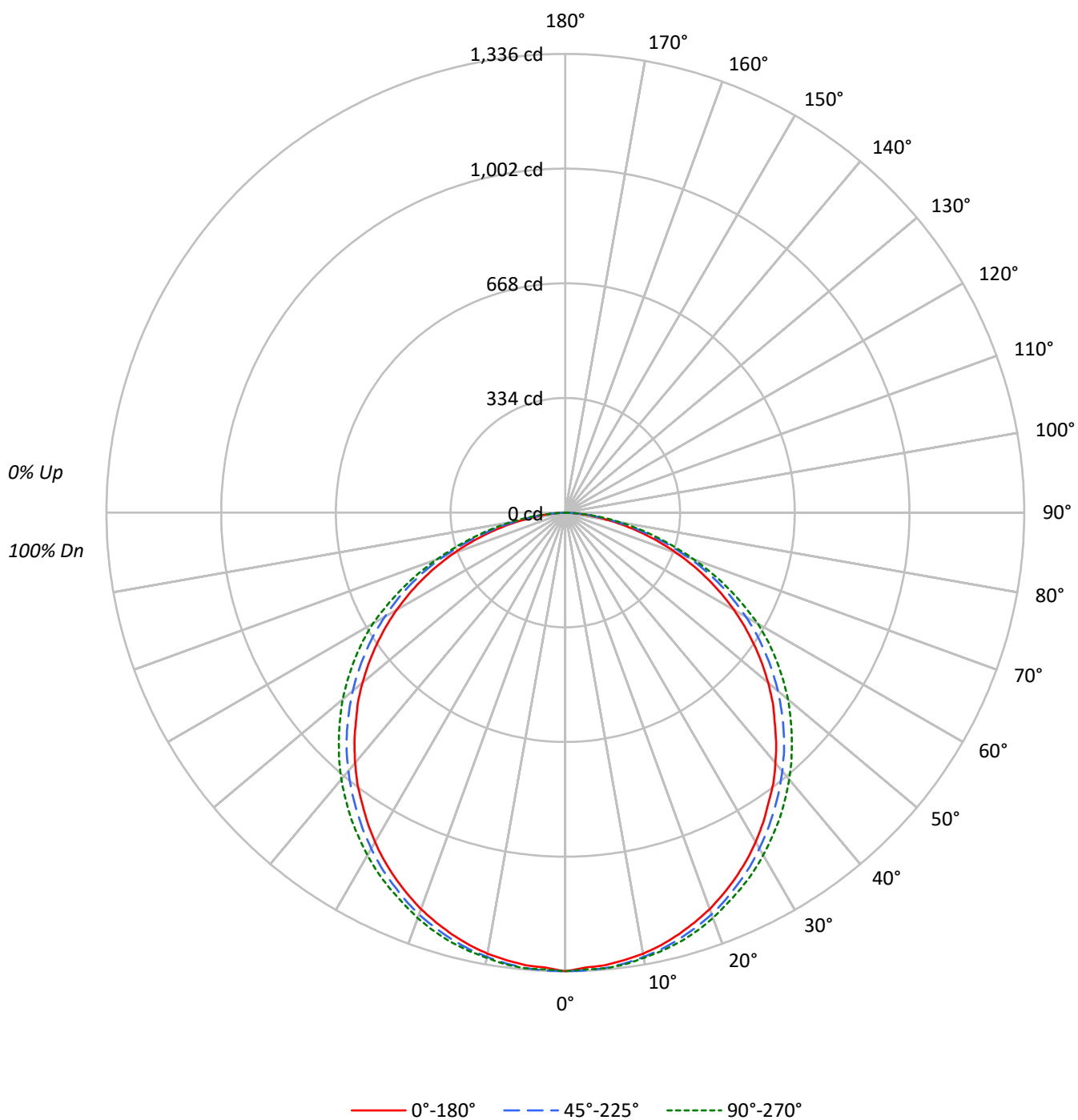
Lumens per Lamp: N/A
Luminaire Lumens: 3861.0 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1584576

CATALOG NUMBER: 14CZSP-A-42-L840-S

Luminous Intensity Polar Plot



TEST NUMBER: P1584576

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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°	4500	4500	4500
5°	4475	4504	4508
10°	4463	4496	4506
15°	4437	4482	4514
20°	4406	4465	4506
25°	4361	4431	4492
30°	4312	4396	4482
35°	4243	4357	4474
40°	4187	4322	4462
45°	4108	4284	4444
50°	4040	4234	4436
55°	3943	4173	4407
60°	3822	4091	4362
65°	3652	3979	4182
70°	3404	3757	3925
75°	3041	3389	3582
80°	2492	2856	3132
85°	1670	2088	2327

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4444 cd/sqm

TEST NUMBER: P1584576

CATALOG NUMBER: 14CZSP-A-42-L840-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.5	3.3
10°-20°	362.6	9.4
20°-30°	549.1	14.2
30°-40°	663.1	17.2
40°-50°	692.9	17.9
50°-60°	635.0	16.4
60°-70°	490.1	12.7
70°-80°	275.7	7.1
80°-90°	66.0	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°	1038.2	26.9
0°-40°	1701.2	44.1
0°-60°	3029.2	78.5
0°-90°	3861.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3861.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1323	1333	1332	1333	1333	126
15°	1272	1282	1285	1290	1294	359
25°	1173	1183	1192	1198	1208	541
35°	1032	1044	1059	1074	1088	646
45°	862	879	899	917	933	666
55°	671	689	710	732	750	600
65°	458	478	499	519	524	453
75°	234	255	260	271	275	248
85°	43	49	54	59	60	55
90°	0	0	0	0	0	

TEST NUMBER: P1584576

CATALOG NUMBER: 14CZSP-A-42-L840-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1335.5	1335.5	1335.5	1335.5	1335.5
2.5°	1326.4	1336.7	1334.4	1337.8	1331.5
5°	1323.0	1332.7	1331.5	1332.7	1332.7
7.5°	1314.5	1324.7	1324.2	1325.9	1327.0
10°	1304.3	1313.9	1313.9	1315.6	1316.8
12.5°	1290.1	1300.3	1301.4	1304.3	1306.5
15°	1271.9	1282.1	1284.9	1290.1	1294.0
17.5°	1251.4	1262.2	1266.8	1271.9	1277.0
20°	1228.7	1238.3	1245.2	1249.1	1256.5
22.5°	1202.0	1212.8	1220.2	1224.1	1232.1
25°	1173.0	1183.2	1191.7	1198.0	1208.2
27.5°	1142.3	1152.5	1162.8	1170.1	1182.1
30°	1108.2	1119.0	1129.8	1141.2	1152.0
32.5°	1071.3	1083.8	1095.7	1108.2	1120.1
35°	1031.5	1044.5	1059.3	1073.5	1087.7
37.5°	994.5	1006.5	1021.8	1037.2	1051.4
40°	951.9	965.0	982.6	999.7	1014.4
42.5°	908.7	922.9	942.3	958.7	974.6
45°	862.1	879.2	899.1	917.2	932.6
47.5°	818.9	833.7	853.6	873.5	889.4
50°	770.6	787.1	807.6	828.6	846.2
52.5°	721.8	738.8	759.8	780.9	799.0
55°	671.2	688.8	710.4	732.5	750.2
57.5°	619.5	638.2	660.4	682.5	700.2
60°	567.2	585.9	607.0	631.4	647.3
62.5°	512.6	533.6	553.5	576.3	585.9
65°	458.1	477.9	499.0	518.9	524.5
67.5°	402.4	422.8	441.6	454.6	462.0
70°	345.5	367.7	381.3	393.8	398.4
72.5°	289.3	311.4	319.4	331.3	335.9
75°	233.6	255.2	260.3	271.1	275.1
77.5°	179.6	199.5	201.2	213.7	217.1
80°	128.4	144.4	147.2	159.1	161.4
82.5°	82.4	93.8	97.7	108.0	111.4
85°	43.2	49.4	54.0	59.1	60.2
87.5°	14.2	17.6	14.8	15.3	14.2
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584576

CATALOG NUMBER: 14CZSP-A-42-L840-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	16.94	18.59	17.30	18.90	19.22	17.48	19.13	17.84	19.44	19.76
	3H	18.71	20.21	19.09	20.53	20.89	19.33	20.83	19.71	21.15	21.51
	4H	19.34	20.75	19.74	21.09	21.47	20.00	21.41	20.40	21.76	22.13
	6H	19.75	21.05	20.16	21.42	21.81	20.48	21.79	20.89	22.15	22.54
	8H	19.85	21.10	20.28	21.49	21.89	20.63	21.87	21.05	22.26	22.66
	12H	19.90	21.10	20.33	21.48	21.91	20.71	21.90	21.14	22.29	22.71
4H	2H	17.66	19.07	18.06	19.42	19.79	18.08	19.49	18.48	19.84	20.21
	3H	19.66	20.84	20.07	21.23	21.63	20.16	21.34	20.57	21.73	22.13
	4H	20.41	21.48	20.85	21.90	22.33	20.95	22.02	21.38	22.43	22.87
	6H	20.94	21.88	21.40	22.32	22.77	21.56	22.49	22.01	22.93	23.38
	8H	21.08	21.96	21.54	22.40	22.86	21.75	22.62	22.21	23.06	23.53
	12H	21.16	21.95	21.64	22.42	22.89	21.87	22.65	22.35	23.13	23.60
8H	4H	20.75	21.63	21.21	22.07	22.53	21.23	22.10	21.69	22.54	23.01
	6H	21.39	22.12	21.88	22.61	23.08	21.94	22.67	22.43	23.15	23.63
	8H	21.59	22.24	22.10	22.75	23.23	22.20	22.85	22.71	23.35	23.84
	12H	21.72	22.30	22.23	22.79	23.35	22.38	22.96	22.89	23.45	24.01
12H	4H	20.79	21.57	21.27	22.05	22.52	21.25	22.04	21.73	22.51	22.98
	6H	21.45	22.10	21.96	22.60	23.09	21.98	22.63	22.49	23.14	23.62
	8H	21.70	22.27	22.20	22.76	23.32	22.29	22.86	22.79	23.35	23.91