

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: P1584316

Luminaire Tested: 14CZSP-47-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584316
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-47-L840-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

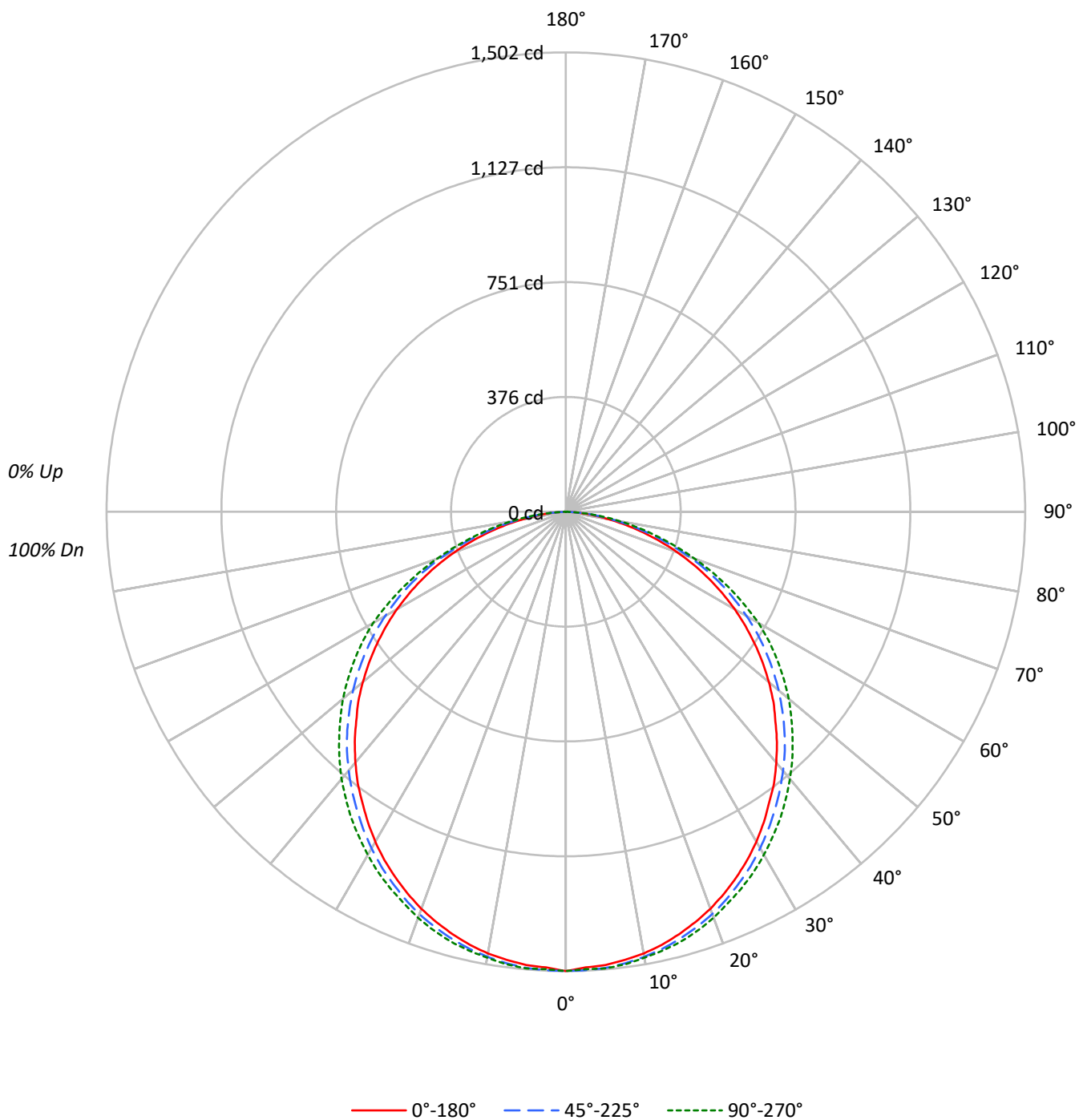
Lumens per Lamp: N/A
Luminaire Lumens: 4341.0 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 32.8
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: P1584316

CATALOG NUMBER: 14CZSP-47-L840-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°	5060	5060	5060
5°	5031	5064	5068
10°	5017	5055	5066
15°	4988	5040	5075
20°	4953	5020	5066
25°	4903	4982	5050
30°	4848	4943	5039
35°	4770	4899	5031
40°	4708	4860	5017
45°	4619	4817	4996
50°	4542	4760	4987
55°	4433	4692	4955
60°	4298	4599	4905
65°	4106	4473	4703
70°	3827	4224	4413
75°	3419	3809	4027
80°	2802	3211	3522
85°	1879	2347	2617

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4996 cd/sqm

TEST NUMBER: P1584316

CATALOG NUMBER: 14CZSP-47-L840-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.2	3.3
10°-20°	407.7	9.4
20°-30°	617.3	14.2
30°-40°	745.5	17.2
40°-50°	779.1	17.9
50°-60°	713.9	16.4
60°-70°	551.1	12.7
70°-80°	310.0	7.1
80°-90°	74.2	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°	1167.2	26.9
0°-40°	1912.7	44.1
0°-60°	3405.8	78.5
0°-90°	4341.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4341.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1502	1502	1502	1502	1502	
5°	1488	1498	1497	1498	1498	141
15°	1430	1442	1445	1450	1455	404
25°	1319	1330	1340	1347	1358	608
35°	1160	1174	1191	1207	1223	727
45°	969	988	1011	1031	1048	749
55°	755	774	799	824	843	674
65°	515	537	561	583	590	509
75°	263	287	293	305	309	278
85°	49	56	61	66	68	62
90°	0	0	0	0	0	

TEST NUMBER: P1584316

CATALOG NUMBER: 14CZSP-47-L840-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1501.6	1501.6	1501.6	1501.6	1501.6
2.5°	1491.3	1502.8	1500.3	1504.1	1497.1
5°	1487.5	1498.4	1497.1	1498.4	1498.4
7.5°	1477.9	1489.4	1488.8	1490.7	1492.0
10°	1466.4	1477.3	1477.3	1479.2	1480.5
12.5°	1450.4	1461.9	1463.2	1466.4	1469.0
15°	1430.0	1441.5	1444.7	1450.4	1454.9
17.5°	1407.0	1419.1	1424.2	1430.0	1435.7
20°	1381.4	1392.3	1400.0	1404.4	1412.7
22.5°	1351.4	1363.5	1371.8	1376.3	1385.3
25°	1318.8	1330.3	1339.9	1346.9	1358.4
27.5°	1284.3	1295.8	1307.3	1315.6	1329.0
30°	1246.0	1258.1	1270.3	1283.0	1295.2
32.5°	1204.4	1218.5	1231.9	1246.0	1259.4
35°	1159.7	1174.4	1191.0	1207.0	1223.0
37.5°	1118.2	1131.6	1148.8	1166.1	1182.1
40°	1070.3	1085.0	1104.8	1123.9	1140.5
42.5°	1021.7	1037.7	1059.4	1077.9	1095.8
45°	969.3	988.5	1010.8	1031.3	1048.5
47.5°	920.7	937.4	959.7	982.1	1000.0
50°	866.4	885.0	908.0	931.6	951.4
52.5°	811.5	830.6	854.3	877.9	898.4
55°	754.6	774.4	798.7	823.6	843.4
57.5°	696.5	717.6	742.5	767.4	787.2
60°	637.7	658.8	682.4	709.9	727.8
62.5°	576.3	600.0	622.3	647.9	658.8
65°	515.0	537.4	561.0	583.4	589.8
67.5°	452.4	475.4	496.5	511.2	519.5
70°	388.5	413.4	428.7	442.8	447.9
72.5°	325.2	350.1	359.1	372.5	377.6
75°	262.6	286.9	292.6	304.8	309.3
77.5°	201.9	224.3	226.2	240.2	244.1
80°	144.4	162.3	165.5	178.9	181.5
82.5°	92.6	105.4	109.9	121.4	125.2
85°	48.6	55.6	60.7	66.5	67.7
87.5°	16.0	19.8	16.6	17.3	16.0
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584316

CATALOG NUMBER: 14CZSP-47-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	17.35	19.00	17.71	19.31	19.62	17.89	19.54	18.25	19.85	20.16
	3H	19.12	20.61	19.50	20.94	21.30	19.74	21.24	20.12	21.56	21.92
	4H	19.75	21.15	20.15	21.50	21.88	20.41	21.82	20.81	22.17	22.54
	6H	20.16	21.46	20.57	21.82	22.22	20.89	22.19	21.30	22.56	22.95
	8H	20.26	21.51	20.68	21.89	22.29	21.03	22.28	21.46	22.67	23.07
	12H	20.31	21.50	20.74	21.89	22.31	21.12	22.31	21.55	22.69	23.12
4H	2H	18.07	19.48	18.47	19.82	20.20	18.49	19.90	18.89	20.25	20.62
	3H	20.06	21.25	20.47	21.64	22.04	20.56	21.74	20.97	22.14	22.54
	4H	20.82	21.89	21.25	22.30	22.74	21.36	22.43	21.79	22.84	23.28
	6H	21.35	22.28	21.80	22.72	23.18	21.96	22.90	22.42	23.34	23.79
	8H	21.49	22.36	21.95	22.80	23.27	22.15	23.03	22.61	23.47	23.93
	12H	21.57	22.35	22.05	22.83	23.30	22.27	23.06	22.75	23.53	24.00
8H	4H	21.16	22.03	21.62	22.47	22.94	21.64	22.51	22.10	22.95	23.42
	6H	21.80	22.53	22.29	23.01	23.49	22.35	23.07	22.84	23.56	24.04
	8H	22.00	22.65	22.51	23.16	23.64	22.61	23.26	23.11	23.76	24.25
	12H	22.13	22.70	22.63	23.19	23.75	22.79	23.36	23.29	23.85	24.41
12H	4H	21.20	21.98	21.68	22.46	22.92	21.66	22.45	22.14	22.92	23.39
	6H	21.85	22.51	22.36	23.01	23.50	22.38	23.04	22.89	23.54	24.03
	8H	22.11	22.68	22.61	23.17	23.73	22.69	23.27	23.20	23.76	24.32