

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: P1585716

Luminaire Tested: 14CZSP-SB-47-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585716
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-47-L840-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

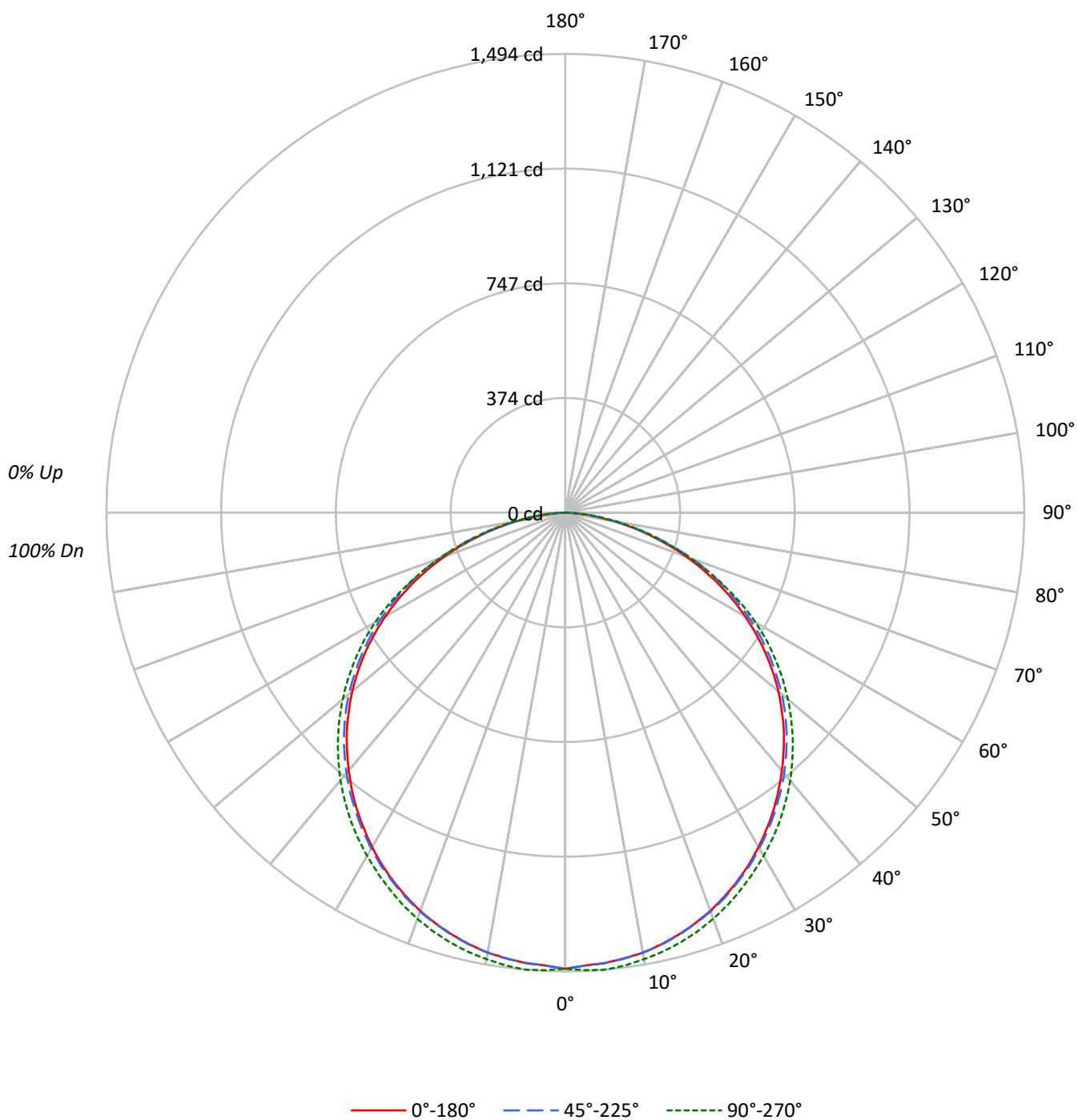
Lumens per Lamp: N/A
Luminaire Lumens: 4384.0 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1585716

CATALOG NUMBER: 14CZSP-SB-47-L840-S

Luminous Intensity Polar Plot



TEST NUMBER: P1585716

CATALOG NUMBER: 14CZSP-SB-47-L840-S

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	99	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	40	68	55	46	40	53	46	40		52	45	40		50
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5006	5006	5006
5°	4982	4980	5054
10°	4980	4977	5053
15°	4964	4969	5056
20°	4949	4959	5048
25°	4924	4937	5031
30°	4895	4916	5023
35°	4863	4893	5020
40°	4825	4875	5011
45°	4795	4856	4990
50°	4747	4821	4959
55°	4673	4760	4910
60°	4560	4678	4823
65°	4389	4555	4603
70°	4127	4319	4293
75°	3705	3863	3889
80°	3062	3217	3386
85°	2049	2389	2517

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4990 cd/sqm

TEST NUMBER: P1585716

CATALOG NUMBER: 14CZSP-SB-47-L840-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.8	3.2
10°-20°	404.7	9.2
20°-30°	616.3	14.1
30°-40°	750.1	17.1
40°-50°	790.7	18.0
50°-60°	728.3	16.6
60°-70°	562.5	12.8
70°-80°	314.7	7.2
80°-90°	75.9	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°	1161.8	26.5
0°-40°	1911.9	43.6
0°-60°	3430.9	78.3
0°-90°	4384.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4384.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1486	1486	1486	1486	1486	
5°	1473	1494	1472	1474	1494	140
15°	1423	1443	1424	1432	1449	402
25°	1324	1343	1328	1336	1353	610
35°	1182	1200	1190	1204	1220	739
45°	1006	1020	1019	1034	1047	775
55°	796	809	810	827	836	710
65°	550	567	571	577	577	544
75°	285	302	297	296	299	302
85°	53	58	62	69	65	68
90°	0	0	0	0	0	

TEST NUMBER: P1585716

CATALOG NUMBER: 14CZSP-SB-47-L840-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1485.6	1485.6	1485.6	1485.6	1485.6
2.5°	1476.2	1497.7	1476.2	1479.5	1491.6
5°	1472.8	1493.6	1472.2	1474.2	1494.3
7.5°	1464.1	1485.6	1465.4	1468.1	1487.6
10°	1455.4	1474.8	1454.7	1458.1	1476.8
12.5°	1440.6	1460.7	1441.9	1446.0	1464.8
15°	1423.1	1442.6	1424.5	1432.5	1449.3
17.5°	1403.0	1421.8	1404.3	1413.7	1429.9
20°	1380.2	1398.3	1382.9	1389.6	1407.7
22.5°	1353.3	1372.1	1357.4	1363.4	1382.9
25°	1324.5	1343.3	1327.8	1336.5	1353.3
27.5°	1292.9	1311.0	1297.6	1308.4	1323.1
30°	1258.0	1275.5	1263.4	1276.1	1290.9
32.5°	1220.4	1239.2	1227.1	1241.9	1256.7
35°	1182.2	1199.6	1189.5	1204.3	1220.4
37.5°	1140.5	1157.3	1149.9	1165.4	1180.1
40°	1096.9	1115.7	1108.3	1124.4	1139.2
42.5°	1051.9	1070.0	1064.0	1080.8	1093.5
45°	1006.3	1020.4	1019.0	1034.5	1047.2
47.5°	955.9	973.4	970.7	986.1	997.5
50°	905.6	919.7	919.7	934.4	945.9
52.5°	851.2	865.3	865.3	882.8	892.2
55°	795.5	808.9	810.3	827.0	835.8
57.5°	736.4	750.5	753.2	770.0	778.0
60°	676.7	690.1	694.1	710.9	715.6
62.5°	614.2	630.3	632.4	645.8	648.5
65°	550.5	566.6	571.3	576.6	577.3
67.5°	485.3	502.1	506.8	506.8	506.8
70°	418.9	434.3	438.4	435.7	435.7
72.5°	351.8	368.5	366.5	363.8	365.2
75°	284.6	302.1	296.7	296.0	298.7
77.5°	220.2	237.0	228.2	233.6	234.3
80°	157.8	170.5	165.8	173.9	174.5
82.5°	101.4	109.4	110.8	117.5	115.5
85°	53.0	58.4	61.8	69.1	65.1
87.5°	16.8	22.2	20.1	23.5	18.1
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1585716

CATALOG NUMBER: 14CZSP-SB-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	17.63	19.29	18.00	19.60	19.91	17.85	19.50	18.21	19.82	20.13
	3H	19.45	20.95	19.83	21.28	21.64	19.65	21.15	20.02	21.47	21.83
	4H	20.10	21.51	20.50	21.86	22.23	20.29	21.70	20.68	22.04	22.42
	6H	20.53	21.84	20.94	22.20	22.59	20.74	22.05	21.15	22.41	22.80
	8H	20.64	21.89	21.06	22.28	22.67	20.87	22.12	21.29	22.51	22.91
	12H	20.69	21.89	21.12	22.27	22.70	20.95	22.14	21.37	22.53	22.95
4H	2H	18.31	19.72	18.71	20.07	20.44	18.48	19.89	18.88	20.24	20.61
	3H	20.35	21.54	20.76	21.93	22.33	20.49	21.68	20.90	22.08	22.47
	4H	21.13	22.20	21.56	22.62	23.05	21.25	22.32	21.68	22.74	23.17
	6H	21.68	22.62	22.13	23.06	23.51	21.83	22.76	22.28	23.20	23.66
	8H	21.83	22.70	22.29	23.15	23.61	22.00	22.88	22.46	23.32	23.78
	12H	21.91	22.70	22.39	23.17	23.64	22.11	22.90	22.59	23.38	23.85
8H	4H	21.44	22.32	21.90	22.76	23.22	21.55	22.42	22.01	22.86	23.33
	6H	22.10	22.83	22.59	23.31	23.79	22.23	22.96	22.72	23.44	23.92
	8H	22.30	22.96	22.81	23.46	23.95	22.47	23.12	22.97	23.63	24.11
	12H	22.44	23.01	22.94	23.50	24.06	22.64	23.22	23.15	23.71	24.27
12H	4H	21.47	22.26	21.95	22.73	23.20	21.57	22.36	22.05	22.84	23.31
	6H	22.14	22.80	22.65	23.30	23.79	22.27	22.92	22.78	23.43	23.91
	8H	22.40	22.98	22.90	23.47	24.03	22.56	23.14	23.07	23.63	24.19