

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: P1585696

Luminaire Tested: 14CZSP-SB-43HE-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585696
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-43HE-L840-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

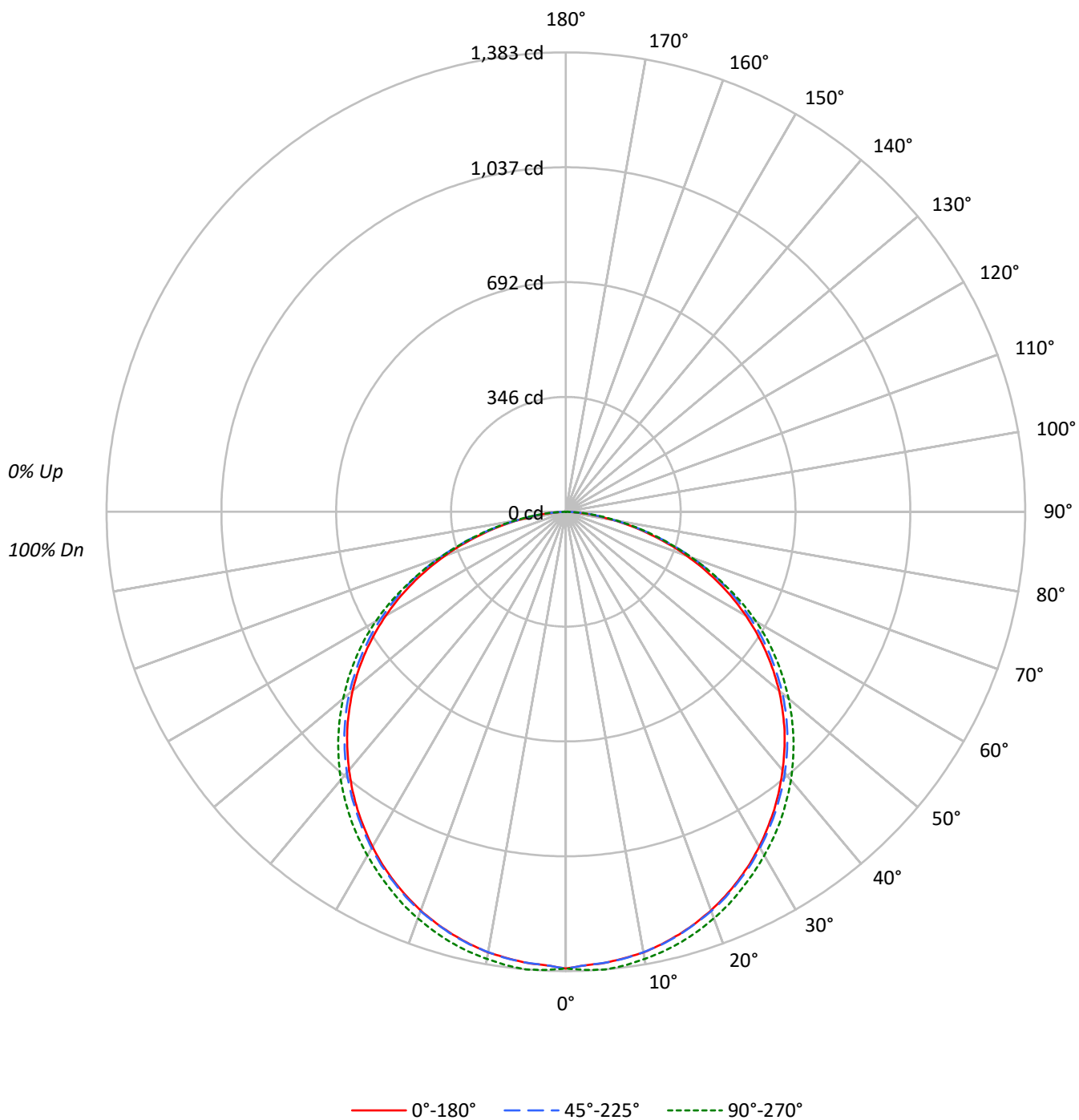
Lumens per Lamp: N/A
Luminaire Lumens: 4058.0 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.9
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: P1585696

CATALOG NUMBER: 14CZSP-SB-43HE-L840-S

Luminous Intensity Polar Plot



TEST NUMBER: P1585696

CATALOG NUMBER: 14CZSP-SB-43HE-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°	4634	4634	4634
5°	4611	4609	4679
10°	4609	4607	4677
15°	4595	4600	4680
20°	4581	4590	4672
25°	4558	4570	4657
30°	4531	4550	4649
35°	4501	4529	4647
40°	4466	4513	4638
45°	4438	4495	4619
50°	4394	4463	4589
55°	4326	4406	4545
60°	4221	4330	4464
65°	4062	4216	4261
70°	3820	3998	3973
75°	3431	3575	3600
80°	2833	2979	3136
85°	1898	2211	2331

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4619 cd/sqm

TEST NUMBER: P1585696

CATALOG NUMBER: 14CZSP-SB-43HE-L840-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	3.2
10°-20°	374.6	9.2
20°-30°	570.5	14.1
30°-40°	694.3	17.1
40°-50°	731.9	18.0
50°-60°	674.1	16.6
60°-70°	520.7	12.8
70°-80°	291.3	7.2
80°-90°	70.2	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°	1075.4	26.5
0°-40°	1769.7	43.6
0°-60°	3175.8	78.3
0°-90°	4058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4058.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1375	1375	1375	1375	1375	
5°	1363	1383	1363	1364	1383	130
15°	1317	1335	1319	1326	1342	372
25°	1226	1243	1229	1237	1253	565
35°	1094	1110	1101	1115	1130	684
45°	931	944	943	958	969	718
55°	736	749	750	766	774	657
65°	510	524	529	534	534	503
75°	264	280	275	274	276	279
85°	49	54	57	64	60	63
90°	0	0	0	0	0	

TEST NUMBER: P1585696

CATALOG NUMBER: 14CZSP-SB-43HE-L840-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1375.1	1375.1	1375.1	1375.1	1375.1
2.5°	1366.4	1386.3	1366.4	1369.5	1380.7
5°	1363.3	1382.6	1362.7	1364.5	1383.2
7.5°	1355.2	1375.1	1356.5	1359.0	1377.0
10°	1347.1	1365.2	1346.5	1349.6	1367.0
12.5°	1333.5	1352.1	1334.7	1338.4	1355.8
15°	1317.3	1335.3	1318.6	1326.0	1341.6
17.5°	1298.7	1316.1	1299.9	1308.6	1323.5
20°	1277.6	1294.3	1280.0	1286.3	1303.0
22.5°	1252.7	1270.1	1256.4	1262.0	1280.0
25°	1226.0	1243.4	1229.1	1237.2	1252.7
27.5°	1196.8	1213.5	1201.1	1211.1	1224.7
30°	1164.5	1180.6	1169.4	1181.2	1194.9
32.5°	1129.7	1147.1	1135.9	1149.5	1163.2
35°	1094.2	1110.4	1101.1	1114.8	1129.7
37.5°	1055.7	1071.3	1064.4	1078.7	1092.4
40°	1015.3	1032.7	1025.9	1040.8	1054.5
42.5°	973.7	990.5	984.9	1000.4	1012.2
45°	931.4	944.5	943.3	957.5	969.3
47.5°	884.8	901.0	898.5	912.8	923.4
50°	838.2	851.3	851.3	865.0	875.5
52.5°	787.9	801.0	801.0	817.1	825.8
55°	736.3	748.8	750.0	765.5	773.6
57.5°	681.7	694.7	697.2	712.7	720.2
60°	626.3	638.8	642.5	658.0	662.4
62.5°	568.6	583.5	585.3	597.8	600.3
65°	509.5	524.4	528.8	533.8	534.4
67.5°	449.3	464.8	469.1	469.1	469.1
70°	387.7	402.0	405.8	403.3	403.3
72.5°	325.6	341.1	339.3	336.8	338.0
75°	263.5	279.6	274.6	274.0	276.5
77.5°	203.8	219.3	211.3	216.2	216.9
80°	146.0	157.8	153.5	160.9	161.6
82.5°	93.8	101.3	102.5	108.7	106.9
85°	49.1	54.1	57.2	64.0	60.3
87.5°	15.5	20.5	18.6	21.7	16.8
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1585696

CATALOG NUMBER: 14CZSP-SB-43HE-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	17.36	19.02	17.73	19.33	19.65	17.58	19.23	17.94	19.55	19.86
	3H	19.18	20.68	19.56	21.01	21.37	19.38	20.88	19.75	21.20	21.56
	4H	19.83	21.24	20.23	21.59	21.96	20.02	21.43	20.41	21.78	22.15
	6H	20.26	21.57	20.67	21.93	22.32	20.47	21.78	20.88	22.14	22.53
	8H	20.37	21.62	20.79	22.01	22.41	20.60	21.85	21.03	22.24	22.64
	12H	20.42	21.62	20.85	22.00	22.43	20.68	21.88	21.11	22.26	22.69
4H	2H	18.04	19.45	18.44	19.80	20.18	18.21	19.62	18.61	19.97	20.35
	3H	20.08	21.27	20.49	21.66	22.06	20.22	21.41	20.63	21.81	22.21
	4H	20.86	21.93	21.29	22.35	22.78	20.98	22.06	21.41	22.47	22.90
	6H	21.41	22.35	21.86	22.79	23.24	21.56	22.49	22.01	22.93	23.39
	8H	21.56	22.43	22.02	22.88	23.34	21.73	22.61	22.19	23.05	23.52
	12H	21.64	22.43	22.12	22.90	23.37	21.85	22.63	22.32	23.11	23.58
8H	4H	21.17	22.05	21.63	22.49	22.95	21.28	22.15	21.74	22.60	23.06
	6H	21.83	22.56	22.32	23.04	23.52	21.96	22.69	22.45	23.18	23.65
	8H	22.03	22.69	22.54	23.19	23.68	22.20	22.85	22.71	23.36	23.84
	12H	22.17	22.75	22.67	23.24	23.80	22.37	22.95	22.88	23.44	24.00
12H	4H	21.20	21.99	21.68	22.46	22.93	21.31	22.09	21.78	22.57	23.04
	6H	21.87	22.53	22.38	23.03	23.52	22.00	22.66	22.51	23.16	23.65
	8H	22.13	22.71	22.64	23.20	23.76	22.29	22.87	22.80	23.36	23.92