

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: P1585706

Luminaire Tested: 14CZSP-SB-43HE-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585706
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-L940-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

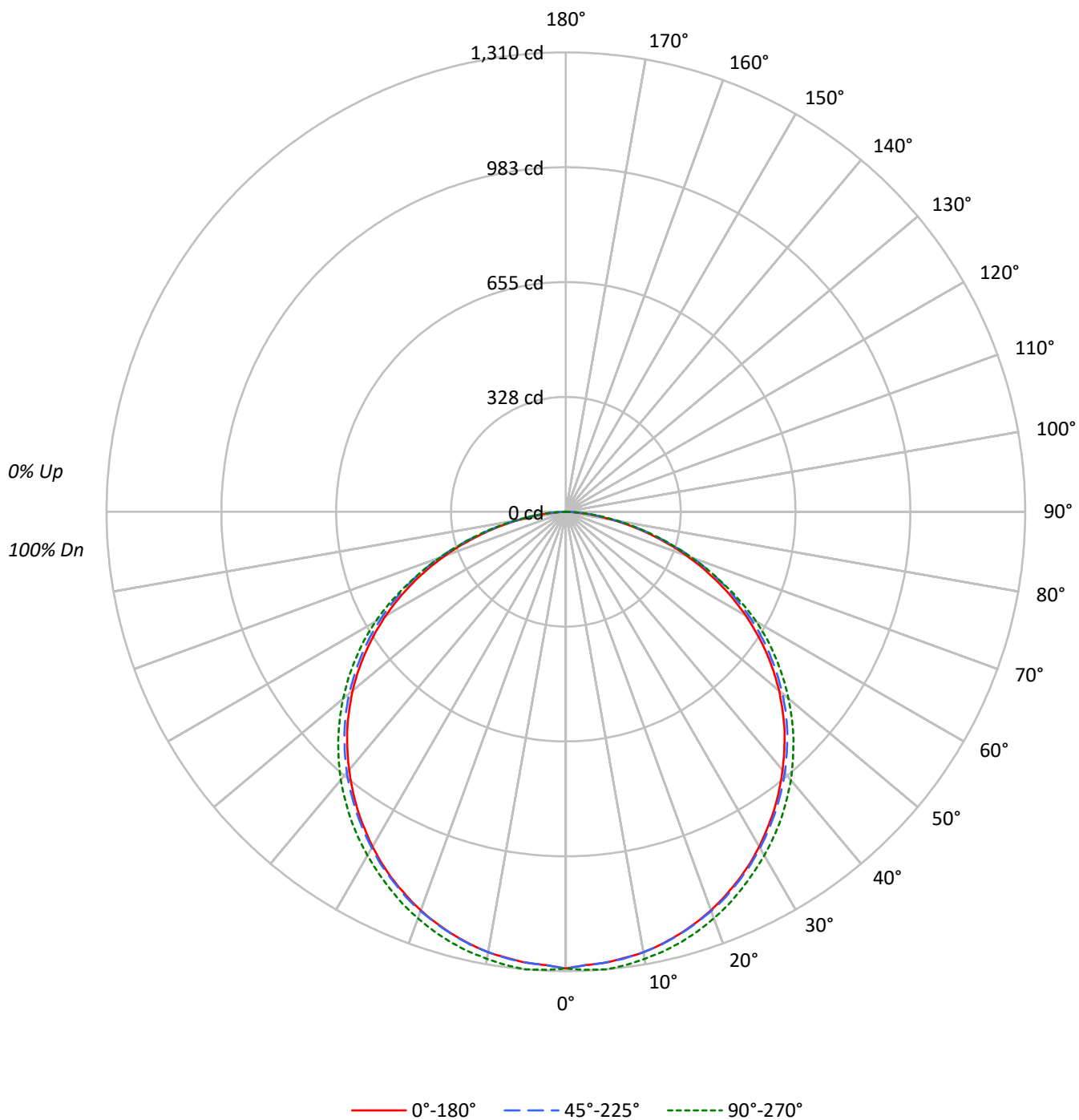
Lumens per Lamp: N/A
Luminaire Lumens: 3843.0 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1585706

CATALOG NUMBER: 14CZSP-SB-43HE-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	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°	4388	4388	4388
5°	4367	4365	4431
10°	4365	4363	4430
15°	4352	4356	4432
20°	4338	4347	4425
25°	4317	4328	4411
30°	4291	4309	4403
35°	4263	4289	4401
40°	4229	4273	4393
45°	4203	4257	4375
50°	4161	4226	4346
55°	4096	4173	4304
60°	3998	4101	4227
65°	3847	3993	4035
70°	3618	3786	3762
75°	3248	3386	3410
80°	2684	2819	2969
85°	1798	2092	2208

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4375 cd/sqm

TEST NUMBER: P1585706

CATALOG NUMBER: 14CZSP-SB-43HE-L940-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	3.2
10°-20°	354.8	9.2
20°-30°	540.3	14.1
30°-40°	657.5	17.1
40°-50°	693.1	18.0
50°-60°	638.4	16.6
60°-70°	493.1	12.8
70°-80°	275.9	7.2
80°-90°	66.5	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°	1018.5	26.5
0°-40°	1676.0	43.6
0°-60°	3007.5	78.3
0°-90°	3843.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3843.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1302	1302	1302	1302	1302	
5°	1291	1309	1290	1292	1310	123
15°	1248	1265	1249	1256	1270	352
25°	1161	1178	1164	1172	1186	535
35°	1036	1052	1043	1056	1070	648
45°	882	894	893	907	918	680
55°	697	709	710	725	733	622
65°	482	497	501	506	506	477
75°	250	265	260	260	262	265
85°	46	51	54	61	57	60
90°	0	0	0	0	0	

TEST NUMBER: P1585706

CATALOG NUMBER: 14CZSP-SB-43HE-L940-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1302.3	1302.3	1302.3	1302.3	1302.3
2.5°	1294.0	1312.8	1294.0	1297.0	1307.5
5°	1291.1	1309.3	1290.5	1292.2	1309.9
7.5°	1283.4	1302.3	1284.6	1287.0	1304.0
10°	1275.8	1292.8	1275.2	1278.1	1294.6
12.5°	1262.8	1280.5	1264.0	1267.5	1284.0
15°	1247.5	1264.6	1248.7	1255.8	1270.5
17.5°	1229.9	1246.3	1231.0	1239.3	1253.4
20°	1209.9	1225.8	1212.2	1218.1	1234.0
22.5°	1186.3	1202.8	1189.9	1195.2	1212.2
25°	1161.0	1177.5	1164.0	1171.6	1186.3
27.5°	1133.4	1149.3	1137.5	1146.9	1159.8
30°	1102.8	1118.1	1107.5	1118.7	1131.6
32.5°	1069.8	1086.3	1075.7	1088.6	1101.6
35°	1036.3	1051.6	1042.7	1055.7	1069.8
37.5°	999.8	1014.5	1008.0	1021.6	1034.5
40°	961.5	978.0	971.5	985.7	998.6
42.5°	922.1	938.0	932.7	947.4	958.6
45°	882.1	894.5	893.3	906.8	918.0
47.5°	838.0	853.3	850.9	864.4	874.4
50°	793.8	806.2	806.2	819.1	829.1
52.5°	746.2	758.5	758.5	773.8	782.1
55°	697.3	709.1	710.3	725.0	732.6
57.5°	645.5	657.9	660.2	675.0	682.0
60°	593.2	604.9	608.5	623.2	627.3
62.5°	538.4	552.6	554.3	566.1	568.4
65°	482.5	496.7	500.8	505.5	506.1
67.5°	425.5	440.2	444.3	444.3	444.3
70°	367.2	380.7	384.3	381.9	381.9
72.5°	308.4	323.1	321.3	318.9	320.1
75°	249.5	264.8	260.1	259.5	261.9
77.5°	193.0	207.7	200.1	204.8	205.4
80°	138.3	149.5	145.3	152.4	153.0
82.5°	88.9	95.9	97.1	103.0	101.2
85°	46.5	51.2	54.1	60.6	57.1
87.5°	14.7	19.4	17.7	20.6	15.9
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1585706

CATALOG NUMBER: 14CZSP-SB-43HE-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	17.17	18.83	17.54	19.14	19.46	17.39	19.04	17.75	19.36	19.67
	3H	18.99	20.49	19.37	20.82	21.18	19.19	20.69	19.57	21.01	21.37
	4H	19.64	21.05	20.04	21.40	21.78	19.83	21.24	20.23	21.59	21.96
	6H	20.07	21.38	20.48	21.74	22.13	20.28	21.59	20.69	21.95	22.34
	8H	20.18	21.43	20.60	21.82	22.22	20.41	21.66	20.84	22.05	22.45
	12H	20.23	21.43	20.66	21.81	22.24	20.49	21.69	20.92	22.07	22.50
4H	2H	17.85	19.26	18.25	19.61	19.99	18.02	19.43	18.42	19.78	20.16
	3H	19.89	21.08	20.30	21.48	21.87	20.04	21.22	20.44	21.62	22.02
	4H	20.67	21.75	21.10	22.16	22.59	20.79	21.87	21.22	22.28	22.71
	6H	21.22	22.16	21.68	22.60	23.05	21.37	22.31	21.82	22.75	23.20
	8H	21.37	22.25	21.83	22.69	23.15	21.54	22.42	22.00	22.86	23.33
	12H	21.45	22.24	21.93	22.72	23.18	21.66	22.45	22.14	22.92	23.39
8H	4H	20.98	21.86	21.44	22.30	22.76	21.09	21.97	21.55	22.41	22.87
	6H	21.64	22.37	22.13	22.86	23.33	21.77	22.50	22.26	22.99	23.46
	8H	21.85	22.50	22.35	23.00	23.49	22.01	22.66	22.52	23.17	23.65
	12H	21.98	22.56	22.49	23.05	23.61	22.19	22.76	22.69	23.25	23.81
12H	4H	21.01	21.80	21.49	22.27	22.74	21.12	21.91	21.60	22.38	22.85
	6H	21.69	22.34	22.19	22.85	23.33	21.81	22.47	22.32	22.97	23.46
	8H	21.94	22.52	22.45	23.01	23.57	22.10	22.68	22.61	23.17	23.73