

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: P1584310

Luminaire Tested: 14CZSP-43HE-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584310
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-43HE-L950-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

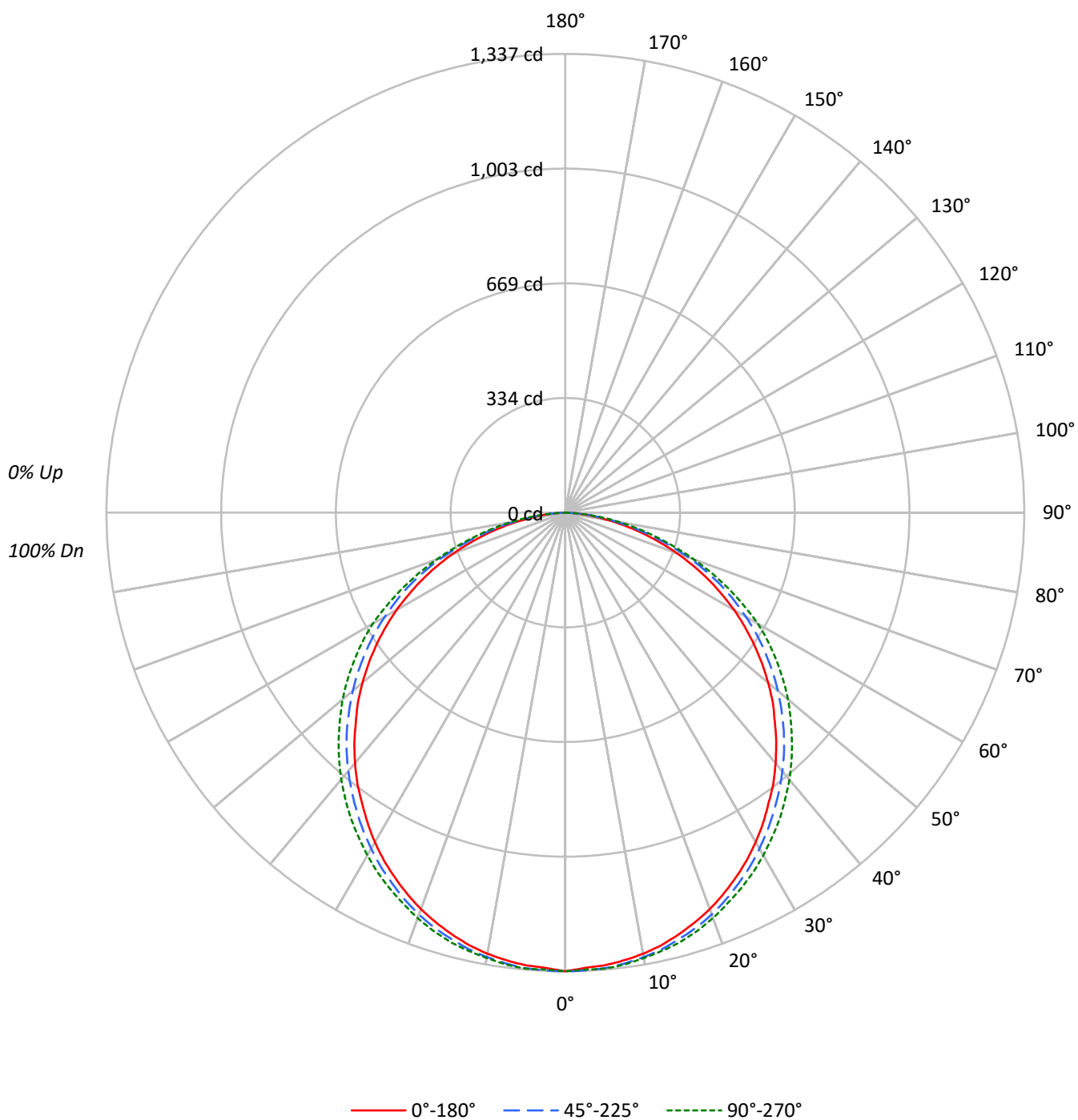
Lumens per Lamp: N/A
Luminaire Lumens: 3865.0 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.9
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: P1584310

CATALOG NUMBER: 14CZSP-43HE-L950-S

Luminous Intensity Polar Plot



TEST NUMBER: P1584310

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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°	4505	4505	4505
5°	4480	4508	4513
10°	4467	4500	4510
15°	4441	4487	4519
20°	4411	4470	4510
25°	4366	4435	4497
30°	4316	4401	4487
35°	4247	4362	4479
40°	4191	4327	4467
45°	4112	4289	4449
50°	4044	4238	4441
55°	3947	4177	4411
60°	3826	4095	4367
65°	3656	3983	4187
70°	3408	3761	3929
75°	3044	3393	3584
80°	2495	2858	3136
85°	1670	2088	2331

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4449 cd/sqm

TEST NUMBER: P1584310

CATALOG NUMBER: 14CZSP-43HE-L950-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.6	3.3
10°-20°	363.0	9.4
20°-30°	549.6	14.2
30°-40°	663.7	17.2
40°-50°	693.7	17.9
50°-60°	635.6	16.4
60°-70°	490.7	12.7
70°-80°	276.0	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°	1039.2	26.9
0°-40°	1703.0	44.1
0°-60°	3032.3	78.5
0°-90°	3865.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3865.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1337	1337	1337	1337	1337	
5°	1324	1334	1333	1334	1334	126
15°	1273	1283	1286	1291	1295	359
25°	1174	1184	1193	1199	1210	541
35°	1032	1046	1060	1075	1089	647
45°	863	880	900	918	934	667
55°	672	690	711	733	751	600
65°	458	478	500	519	525	453
75°	234	255	261	271	275	248
85°	43	50	54	59	60	56
90°	0	0	0	0	0	

TEST NUMBER: P1584310

CATALOG NUMBER: 14CZSP-43HE-L950-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1336.9	1336.9	1336.9	1336.9	1336.9
2.5°	1327.8	1338.0	1335.8	1339.2	1332.9
5°	1324.4	1334.1	1332.9	1334.1	1334.1
7.5°	1315.9	1326.1	1325.5	1327.2	1328.4
10°	1305.6	1315.3	1315.3	1317.0	1318.1
12.5°	1291.4	1301.6	1302.8	1305.6	1307.9
15°	1273.2	1283.4	1286.3	1291.4	1295.4
17.5°	1252.7	1263.5	1268.1	1273.2	1278.3
20°	1230.0	1239.6	1246.5	1250.4	1257.8
22.5°	1203.2	1214.0	1221.4	1225.4	1233.4
25°	1174.2	1184.4	1193.0	1199.2	1209.5
27.5°	1143.5	1153.7	1164.0	1171.4	1183.3
30°	1109.3	1120.2	1131.0	1142.3	1153.2
32.5°	1072.4	1084.9	1096.8	1109.3	1121.3
35°	1032.5	1045.6	1060.4	1074.6	1088.9
37.5°	995.6	1007.5	1022.9	1038.2	1052.5
40°	952.9	966.0	983.6	1000.7	1015.5
42.5°	909.7	923.9	943.2	959.7	975.7
45°	863.0	880.1	900.0	918.2	933.6
47.5°	819.8	834.6	854.5	874.4	890.3
50°	771.4	787.9	808.4	829.5	847.1
52.5°	722.5	739.6	760.6	781.7	799.9
55°	671.9	689.5	711.1	733.3	750.9
57.5°	620.1	638.9	661.1	683.2	700.9
60°	567.8	586.5	607.6	632.0	648.0
62.5°	513.1	534.2	554.1	576.9	586.5
65°	458.5	478.4	499.5	519.4	525.1
67.5°	402.8	423.3	442.0	455.1	462.5
70°	345.9	368.1	381.7	394.2	398.8
72.5°	289.6	311.8	319.7	331.7	336.2
75°	233.8	255.4	260.6	271.4	275.3
77.5°	179.8	199.7	201.4	213.9	217.3
80°	128.6	144.5	147.3	159.3	161.6
82.5°	82.5	93.9	97.9	108.1	111.5
85°	43.2	49.5	54.0	59.2	60.3
87.5°	14.2	17.6	14.8	15.4	14.2
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584310

CATALOG NUMBER: 14CZSP-43HE-L950-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	17.31	18.91	19.22	17.48	19.13	17.85	19.45	19.76
	3H	18.72	20.21	19.09	20.54	20.90	19.34	20.83	19.71	21.16	21.52
	4H	19.34	20.75	19.74	21.10	21.47	20.01	21.41	20.40	21.76	22.14
	6H	19.75	21.06	20.16	21.42	21.81	20.48	21.79	20.89	22.15	22.54
	8H	19.86	21.10	20.28	21.49	21.89	20.63	21.88	21.05	22.27	22.66
	12H	19.91	21.10	20.34	21.48	21.91	20.71	21.91	21.14	22.29	22.72
4H	2H	17.67	19.07	18.06	19.42	19.80	18.09	19.50	18.49	19.84	20.22
	3H	19.66	20.84	20.07	21.24	21.64	20.16	21.34	20.57	21.74	22.14
	4H	20.42	21.49	20.85	21.90	22.33	20.96	22.02	21.39	22.44	22.87
	6H	20.95	21.88	21.40	22.32	22.77	21.56	22.49	22.01	22.93	23.39
	8H	21.09	21.96	21.55	22.40	22.87	21.75	22.62	22.21	23.07	23.53
	12H	21.16	21.95	21.64	22.42	22.89	21.87	22.66	22.35	23.13	23.60
8H	4H	20.76	21.63	21.21	22.07	22.54	21.23	22.11	21.69	22.55	23.01
	6H	21.40	22.12	21.89	22.61	23.08	21.94	22.67	22.44	23.16	23.63
	8H	21.60	22.25	22.10	22.75	23.24	22.20	22.85	22.71	23.36	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	21.58	21.27	22.05	22.52	21.26	22.04	21.74	22.52	22.98
	6H	21.45	22.10	21.96	22.61	23.09	21.98	22.63	22.49	23.14	23.62
	8H	21.70	22.28	22.21	22.77	23.33	22.29	22.86	22.80	23.35	23.91