

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: P1584350

Luminaire Tested: 14CZSP-49HE-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584350
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-49HE-L950-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 4500 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

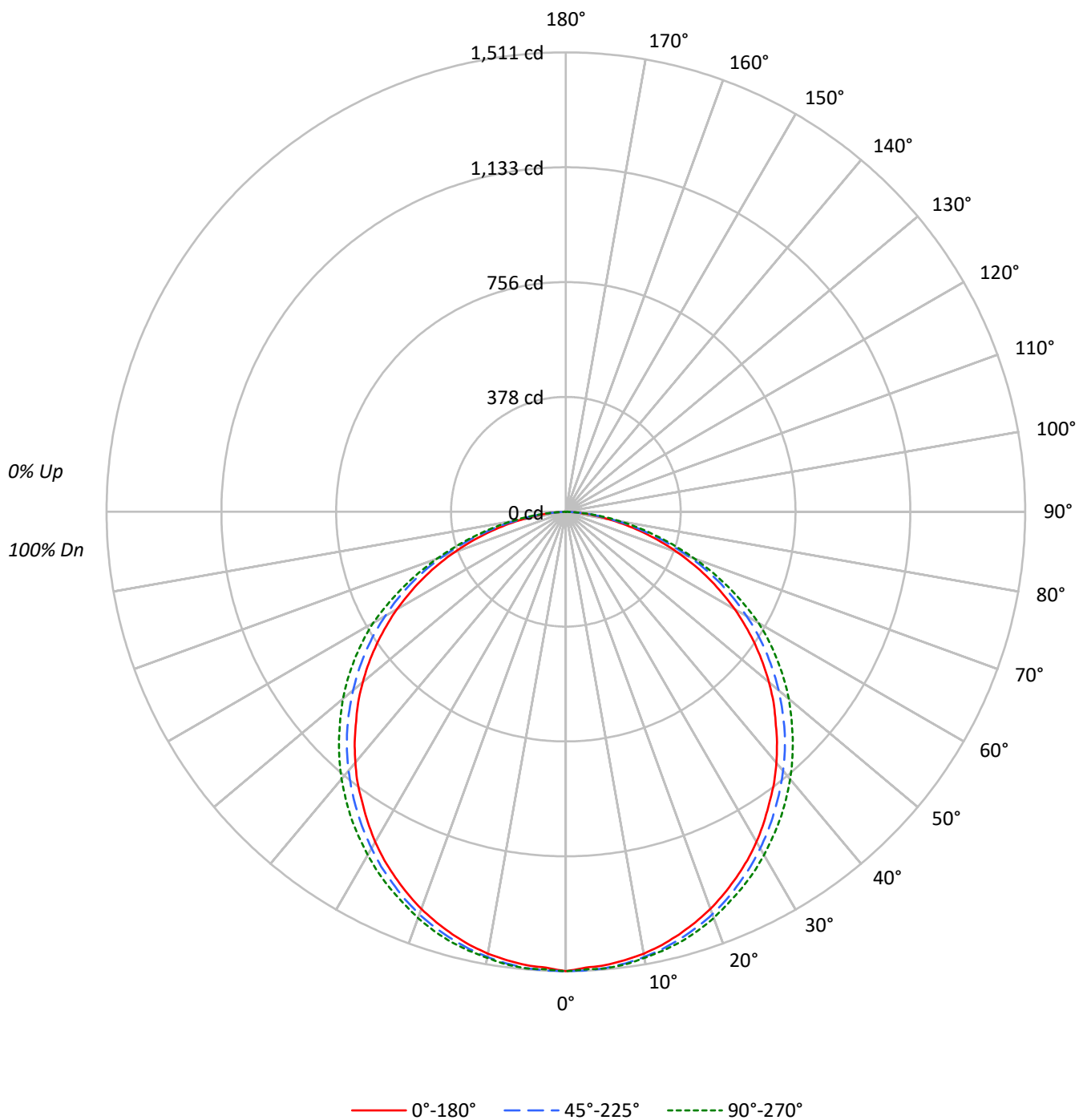
Lumens per Lamp: N/A
Luminaire Lumens: 4369.0 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 33.1
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: P1584350

CATALOG NUMBER: 14CZSP-49HE-L950-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°	5092	5092	5092
5°	5064	5096	5101
10°	5050	5087	5098
15°	5021	5072	5108
20°	4985	5052	5099
25°	4935	5014	5083
30°	4879	4974	5072
35°	4801	4931	5063
40°	4738	4891	5049
45°	4649	4848	5029
50°	4571	4790	5019
55°	4462	4723	4987
60°	4325	4628	4936
65°	4132	4502	4733
70°	3852	4251	4441
75°	3441	3834	4053
80°	2819	3233	3543
85°	1891	2362	2637

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5029 cd/sqm

TEST NUMBER: P1584350

CATALOG NUMBER: 14CZSP-49HE-L950-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.1	3.3
10°-20°	410.3	9.4
20°-30°	621.3	14.2
30°-40°	750.3	17.2
40°-50°	784.1	17.9
50°-60°	718.5	16.4
60°-70°	554.7	12.7
70°-80°	312.0	7.1
80°-90°	74.6	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°	1174.8	26.9
0°-40°	1925.1	44.1
0°-60°	3427.7	78.5
0°-90°	4369.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4369.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1511	1511	1511	1511	1511	
5°	1497	1508	1507	1508	1508	142
15°	1439	1451	1454	1460	1464	406
25°	1327	1339	1348	1356	1367	612
35°	1167	1182	1199	1215	1231	731
45°	976	995	1017	1038	1055	754
55°	760	779	804	829	849	679
65°	518	541	565	587	594	512
75°	264	289	294	307	311	280
85°	49	56	61	67	68	63
90°	0	0	0	0	0	

TEST NUMBER: P1584350

CATALOG NUMBER: 14CZSP-49HE-L950-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1511.2	1511.2	1511.2	1511.2	1511.2
2.5°	1501.0	1512.5	1510.0	1513.8	1506.7
5°	1497.1	1508.0	1506.7	1508.0	1508.0
7.5°	1487.4	1499.0	1498.4	1500.3	1501.6
10°	1475.9	1486.8	1486.8	1488.7	1490.0
12.5°	1459.8	1471.4	1472.7	1475.9	1478.4
15°	1439.2	1450.8	1454.0	1459.8	1464.3
17.5°	1416.1	1428.3	1433.4	1439.2	1445.0
20°	1390.3	1401.3	1409.0	1413.5	1421.9
22.5°	1360.1	1372.3	1380.7	1385.2	1394.2
25°	1327.3	1338.9	1348.5	1355.6	1367.2
27.5°	1292.6	1304.2	1315.7	1324.1	1337.6
30°	1254.0	1266.2	1278.4	1291.3	1303.5
32.5°	1212.2	1226.4	1239.9	1254.0	1267.5
35°	1167.2	1182.0	1198.7	1214.8	1230.9
37.5°	1125.4	1138.9	1156.3	1173.6	1189.7
40°	1077.2	1092.0	1111.9	1131.2	1147.9
42.5°	1028.3	1044.4	1066.2	1084.9	1102.9
45°	975.6	994.8	1017.4	1037.9	1055.3
47.5°	926.7	943.4	965.9	988.4	1006.4
50°	872.0	890.7	913.8	937.6	957.5
52.5°	816.7	836.0	859.8	883.6	904.2
55°	759.5	779.4	803.9	828.9	848.9
57.5°	701.0	722.2	747.3	772.3	792.3
60°	641.8	663.0	686.8	714.5	732.5
62.5°	580.1	603.9	626.4	652.1	663.0
65°	518.3	540.8	564.6	587.1	593.6
67.5°	455.3	478.5	499.7	514.5	522.8
70°	391.0	416.1	431.5	445.7	450.8
72.5°	327.3	352.4	361.4	374.9	380.1
75°	264.3	288.7	294.5	306.7	311.3
77.5°	203.2	225.7	227.7	241.8	245.7
80°	145.3	163.3	166.6	180.1	182.6
82.5°	93.2	106.1	110.6	122.2	126.0
85°	48.9	55.9	61.1	66.9	68.2
87.5°	16.1	19.9	16.7	17.4	16.1
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584350

CATALOG NUMBER: 14CZSP-49HE-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	17.37	19.02	17.73	19.33	19.65	17.91	19.56	18.27	19.87	20.19
	3H	19.14	20.64	19.52	20.96	21.32	19.76	21.26	20.14	21.58	21.94
	4H	19.77	21.18	20.17	21.52	21.90	20.43	21.84	20.83	22.19	22.56
	6H	20.18	21.48	20.59	21.85	22.24	20.91	22.21	21.32	22.58	22.97
	8H	20.28	21.53	20.71	21.92	22.32	21.06	22.30	21.48	22.69	23.09
	12H	20.33	21.53	20.76	21.91	22.34	21.14	22.33	21.57	22.71	23.14
4H	2H	18.09	19.50	18.49	19.85	20.22	18.51	19.92	18.91	20.27	20.64
	3H	20.09	21.27	20.50	21.66	22.06	20.59	21.77	20.99	22.16	22.56
	4H	20.84	21.91	21.27	22.33	22.76	21.38	22.45	21.81	22.86	23.30
	6H	21.37	22.31	21.82	22.75	23.20	21.98	22.92	22.44	23.36	23.81
	8H	21.51	22.38	21.97	22.83	23.29	22.18	23.05	22.64	23.49	23.96
	12H	21.59	22.37	22.07	22.85	23.32	22.30	23.08	22.78	23.56	24.03
8H	4H	21.18	22.05	21.64	22.50	22.96	21.66	22.53	22.12	22.97	23.44
	6H	21.82	22.55	22.31	23.03	23.51	22.37	23.10	22.86	23.58	24.06
	8H	22.02	22.67	22.53	23.18	23.66	22.63	23.28	23.14	23.78	24.27
	12H	22.15	22.73	22.66	23.22	23.78	22.81	23.38	23.32	23.87	24.43
12H	4H	21.22	22.00	21.70	22.48	22.95	21.68	22.47	22.16	22.94	23.41
	6H	21.88	22.53	22.38	23.03	23.52	22.41	23.06	22.92	23.57	24.05
	8H	22.13	22.70	22.63	23.19	23.75	22.72	23.29	23.22	23.78	24.34