

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: P1584644

Luminaire Tested: 14CZSP-A-49HE-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584644
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-A-49HE-L935-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 4500 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

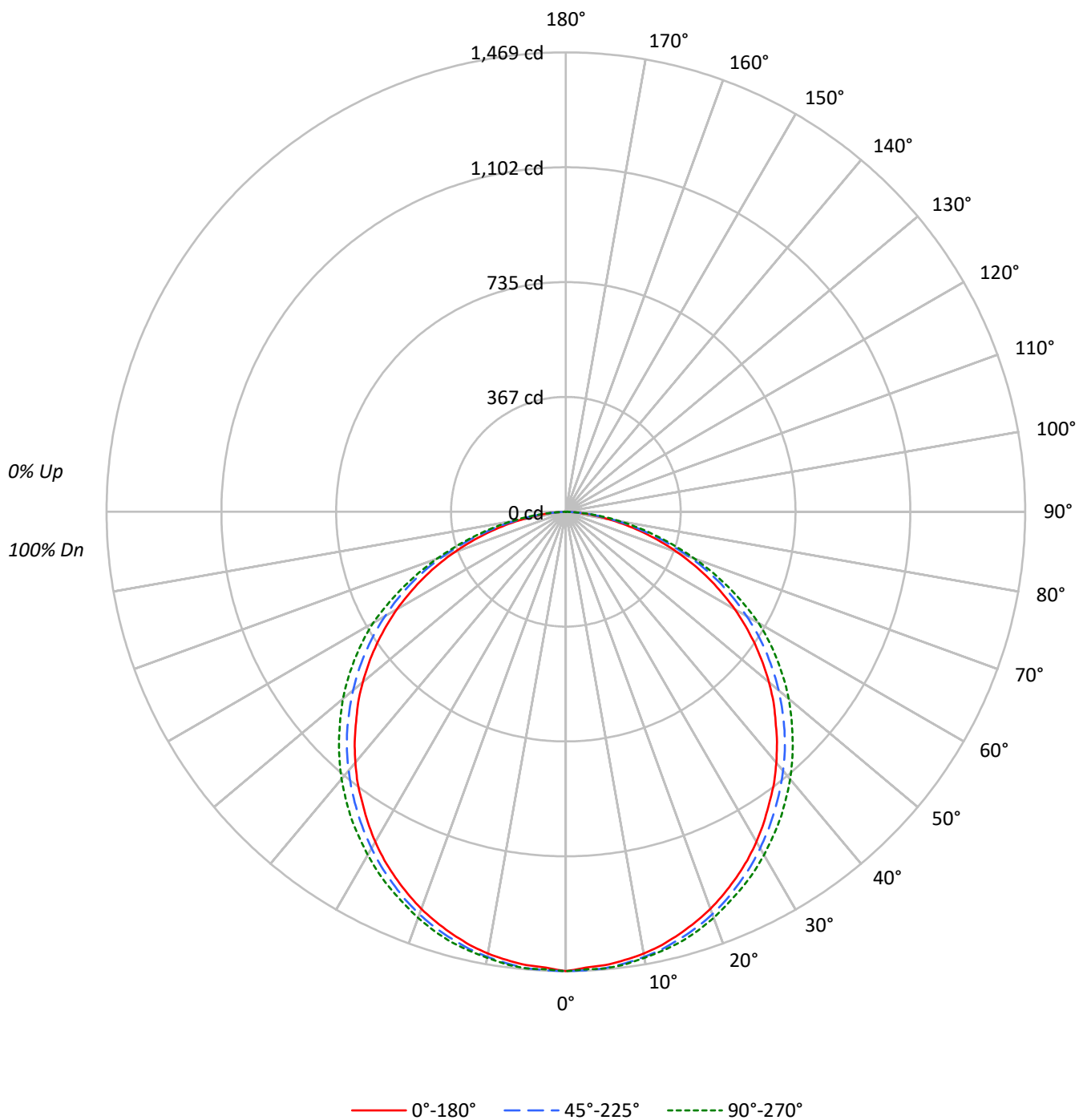
Lumens per Lamp: N/A
Luminaire Lumens: 4247.0 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

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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			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°	4950	4950	4950
5°	4922	4954	4958
10°	4909	4945	4956
15°	4880	4931	4965
20°	4846	4911	4956
25°	4797	4874	4941
30°	4743	4835	4930
35°	4667	4793	4922
40°	4606	4754	4908
45°	4519	4712	4888
50°	4444	4657	4879
55°	4337	4590	4848
60°	4205	4499	4798
65°	4017	4376	4600
70°	3745	4133	4317
75°	3345	3727	3940
80°	2742	3142	3444
85°	1836	2296	2563

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4888 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	3.3
10°-20°	398.9	9.4
20°-30°	604.0	14.2
30°-40°	729.4	17.2
40°-50°	762.2	17.9
50°-60°	698.5	16.4
60°-70°	539.2	12.7
70°-80°	303.3	7.1
80°-90°	72.6	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°	1142.0	26.9
0°-40°	1871.3	44.1
0°-60°	3332.0	78.5
0°-90°	4247.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4247.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1469	1469	1469	1469	1469	
5°	1455	1466	1465	1466	1466	138
15°	1399	1410	1413	1419	1423	395
25°	1290	1302	1311	1318	1329	595
35°	1135	1149	1165	1181	1196	711
45°	948	967	989	1009	1026	733
55°	738	758	781	806	825	660
65°	504	526	549	571	577	498
75°	257	281	286	298	303	272
85°	48	54	59	65	66	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1469.0	1469.0	1469.0	1469.0	1469.0
2.5°	1459.0	1470.3	1467.8	1471.5	1464.7
5°	1455.3	1465.9	1464.7	1465.9	1465.9
7.5°	1445.9	1457.2	1456.5	1458.4	1459.7
10°	1434.7	1445.3	1445.3	1447.2	1448.4
12.5°	1419.0	1430.3	1431.5	1434.7	1437.2
15°	1399.0	1410.3	1413.4	1419.0	1423.4
17.5°	1376.5	1388.4	1393.4	1399.0	1404.7
20°	1351.5	1362.1	1369.6	1374.0	1382.1
22.5°	1322.1	1334.0	1342.1	1346.5	1355.3
25°	1290.3	1301.5	1310.9	1317.8	1329.0
27.5°	1256.5	1267.8	1279.0	1287.1	1300.3
30°	1219.0	1230.9	1242.7	1255.2	1267.1
32.5°	1178.4	1192.1	1205.2	1219.0	1232.1
35°	1134.6	1149.0	1165.2	1180.9	1196.5
37.5°	1094.0	1107.1	1124.0	1140.9	1156.5
40°	1047.1	1061.5	1080.8	1099.6	1115.8
42.5°	999.6	1015.2	1036.5	1054.6	1072.1
45°	948.3	967.1	988.9	1008.9	1025.8
47.5°	900.8	917.1	938.9	960.8	978.3
50°	847.7	865.8	888.3	911.4	930.8
52.5°	793.9	812.7	835.8	858.9	878.9
55°	738.3	757.7	781.4	805.8	825.2
57.5°	681.4	702.0	726.4	750.8	770.2
60°	623.9	644.5	667.6	694.5	712.0
62.5°	563.9	587.0	608.9	633.9	644.5
65°	503.8	525.7	548.9	570.7	577.0
67.5°	442.6	465.1	485.7	500.1	508.2
70°	380.1	404.5	419.5	433.2	438.2
72.5°	318.2	342.6	351.3	364.4	369.4
75°	256.9	280.7	286.3	298.2	302.6
77.5°	197.5	219.4	221.3	235.0	238.8
80°	141.3	158.8	161.9	175.0	177.5
82.5°	90.6	103.1	107.5	118.8	122.5
85°	47.5	54.4	59.4	65.0	66.3
87.5°	15.6	19.4	16.3	16.9	15.6
90°	0.0	0.0	0.0	0.0	0.0

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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	17.27	18.92	17.63	19.23	19.55	17.81	19.46	18.17	19.77	20.09
	3H	19.05	20.54	19.42	20.86	21.22	19.67	21.16	20.04	21.49	21.85
	4H	19.67	21.08	20.07	21.43	21.80	20.33	21.74	20.73	22.09	22.46
	6H	20.08	21.38	20.49	21.75	22.14	20.81	22.12	21.22	22.48	22.87
	8H	20.18	21.43	20.61	21.82	22.22	20.96	22.20	21.38	22.59	22.99
	12H	20.23	21.43	20.66	21.81	22.24	21.04	22.23	21.47	22.62	23.04
4H	2H	17.99	19.40	18.39	19.75	20.12	18.42	19.82	18.81	20.17	20.55
	3H	19.99	21.17	20.40	21.57	21.97	20.49	21.67	20.90	22.07	22.46
	4H	20.75	21.81	21.18	22.23	22.66	21.28	22.35	21.71	22.76	23.20
	6H	21.27	22.21	21.73	22.65	23.10	21.89	22.82	22.34	23.26	23.71
	8H	21.41	22.29	21.87	22.73	23.19	22.08	22.95	22.54	23.39	23.86
	12H	21.49	22.28	21.97	22.75	23.22	22.20	22.98	22.68	23.46	23.93
8H	4H	21.08	21.96	21.54	22.40	22.86	21.56	22.43	22.02	22.88	23.34
	6H	21.72	22.45	22.22	22.94	23.41	22.27	23.00	22.76	23.49	23.96
	8H	21.92	22.57	22.43	23.08	23.56	22.53	23.18	23.04	23.69	24.17
	12H	22.05	22.63	22.56	23.12	23.68	22.71	23.29	23.22	23.78	24.34
12H	4H	21.12	21.91	21.60	22.38	22.85	21.58	22.37	22.06	22.84	23.31
	6H	21.78	22.43	22.29	22.94	23.42	22.31	22.96	22.82	23.47	23.95
	8H	22.03	22.60	22.54	23.09	23.65	22.62	23.19	23.12	23.68	24.24