

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: P1584642

Luminaire Tested: 14CZSP-A-49HE-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584642
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-L930-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 4500 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

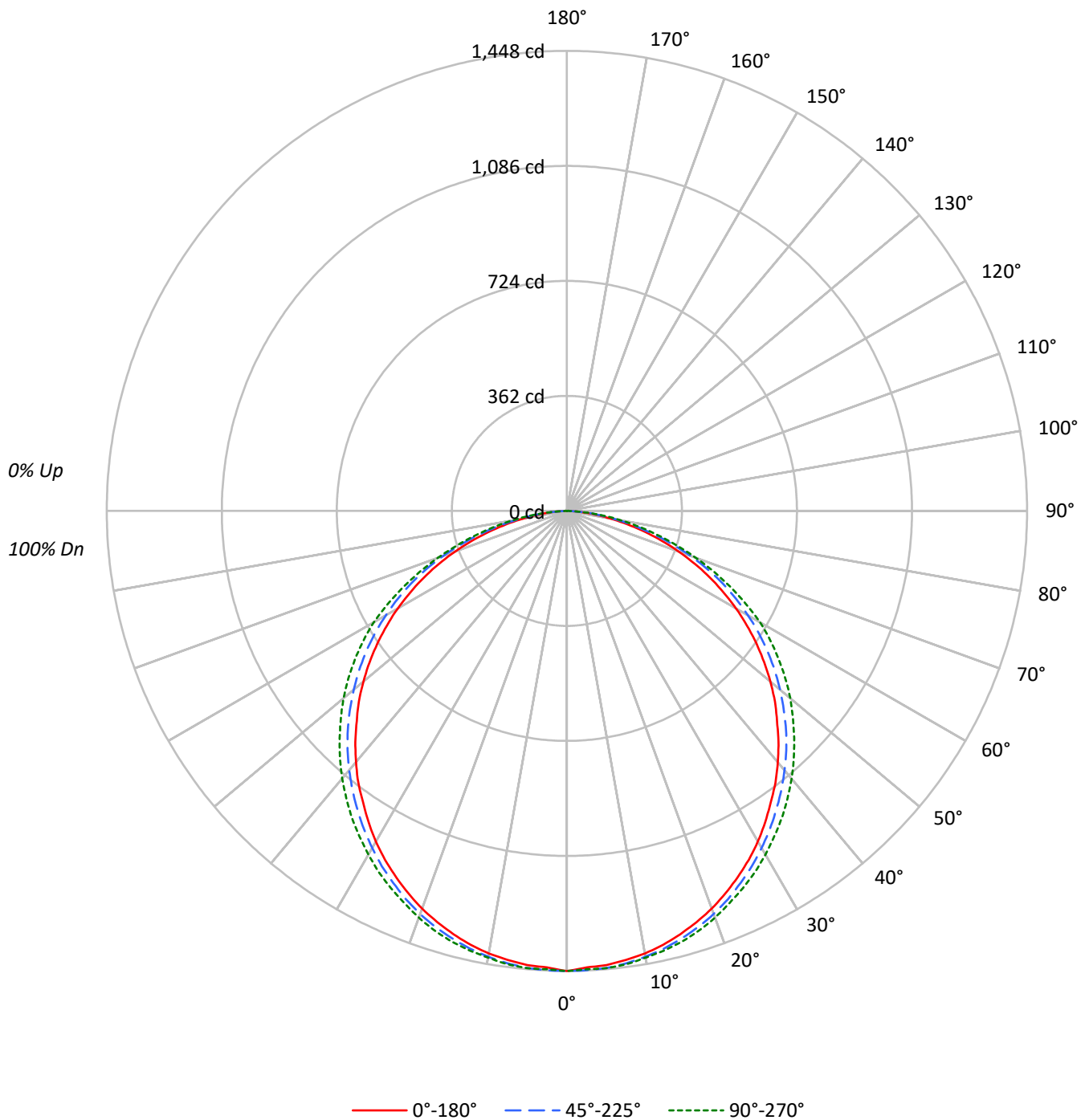
Lumens per Lamp: N/A
Luminaire Lumens: 4187.0 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	4880	4880	4880
5°	4853	4884	4888
10°	4839	4875	4886
15°	4812	4861	4895
20°	4778	4842	4886
25°	4729	4805	4871
30°	4676	4767	4860
35°	4601	4726	4852
40°	4541	4687	4839
45°	4455	4646	4819
50°	4381	4591	4811
55°	4276	4526	4779
60°	4145	4436	4731
65°	3960	4314	4535
70°	3692	4074	4256
75°	3298	3675	3884
80°	2703	3097	3396
85°	1809	2262	2525

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4819 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	3.3
10°-20°	393.2	9.4
20°-30°	595.4	14.2
30°-40°	719.1	17.2
40°-50°	751.5	17.9
50°-60°	688.6	16.4
60°-70°	531.5	12.7
70°-80°	299.0	7.1
80°-90°	71.5	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°	1125.8	26.9
0°-40°	1844.9	44.1
0°-60°	3285.0	78.5
0°-90°	4187.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4187.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1448	1448	1448	1448	1448	
5°	1435	1445	1444	1445	1445	136
15°	1379	1390	1393	1399	1403	389
25°	1272	1283	1292	1299	1310	586
35°	1119	1133	1149	1164	1180	701
45°	935	953	975	995	1011	723
55°	728	747	770	794	814	650
65°	497	518	541	563	569	491
75°	253	277	282	294	298	269
85°	47	54	58	64	65	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1448.3	1448.3	1448.3	1448.3	1448.3
2.5°	1438.4	1449.5	1447.1	1450.8	1444.0
5°	1434.7	1445.2	1444.0	1445.2	1445.2
7.5°	1425.5	1436.6	1436.0	1437.8	1439.0
10°	1414.4	1424.9	1424.9	1426.7	1427.9
12.5°	1399.0	1410.1	1411.3	1414.4	1416.9
15°	1379.3	1390.4	1393.4	1399.0	1403.3
17.5°	1357.1	1368.8	1373.7	1379.3	1384.8
20°	1332.4	1342.9	1350.3	1354.6	1362.6
22.5°	1303.5	1315.2	1323.2	1327.5	1336.1
25°	1272.0	1283.1	1292.4	1299.1	1310.2
27.5°	1238.7	1249.8	1260.9	1268.9	1281.9
30°	1201.8	1213.5	1225.2	1237.5	1249.2
32.5°	1161.7	1175.3	1188.2	1201.8	1214.7
35°	1118.6	1132.7	1148.8	1164.2	1179.6
37.5°	1078.5	1091.5	1108.1	1124.7	1140.1
40°	1032.3	1046.5	1065.6	1084.1	1100.1
42.5°	985.5	1000.9	1021.8	1039.7	1056.9
45°	934.9	953.4	975.0	994.7	1011.3
47.5°	888.1	904.1	925.7	947.2	964.5
50°	835.7	853.6	875.8	898.6	917.7
52.5°	782.7	801.2	824.0	846.8	866.5
55°	727.8	746.9	770.4	794.4	813.5
57.5°	671.8	692.1	716.1	740.2	759.3
60°	615.1	635.4	658.2	684.7	702.0
62.5°	555.9	578.7	600.3	624.9	635.4
65°	496.7	518.3	541.1	562.7	568.8
67.5°	436.3	458.5	478.9	493.0	501.0
70°	374.7	398.7	413.5	427.1	432.0
72.5°	313.7	337.7	346.4	359.3	364.2
75°	253.3	276.7	282.3	294.0	298.3
77.5°	194.7	216.3	218.2	231.7	235.4
80°	139.3	156.5	159.6	172.6	175.0
82.5°	89.4	101.7	106.0	117.1	120.8
85°	46.8	53.6	58.5	64.1	65.3
87.5°	15.4	19.1	16.0	16.6	15.4
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	17.22	18.87	17.58	19.18	19.50	17.76	19.41	18.12	19.72	20.04
	3H	19.00	20.49	19.37	20.81	21.17	19.62	21.11	19.99	21.44	21.80
	4H	19.62	21.03	20.02	21.38	21.75	20.29	21.69	20.68	22.04	22.41
	6H	20.03	21.34	20.44	21.70	22.09	20.76	22.07	21.17	22.43	22.82
	8H	20.13	21.38	20.56	21.77	22.17	20.91	22.15	21.33	22.54	22.94
	12H	20.18	21.38	20.61	21.76	22.19	20.99	22.19	21.42	22.57	23.00
4H	2H	17.94	19.35	18.34	19.70	20.07	18.37	19.77	18.76	20.12	20.50
	3H	19.94	21.12	20.35	21.52	21.92	20.44	21.62	20.85	22.02	22.42
	4H	20.70	21.76	21.13	22.18	22.61	21.23	22.30	21.67	22.72	23.15
	6H	21.22	22.16	21.68	22.60	23.05	21.84	22.77	22.29	23.21	23.67
	8H	21.36	22.24	21.82	22.68	23.14	22.03	22.90	22.49	23.34	23.81
	12H	21.44	22.23	21.92	22.70	23.17	22.15	22.93	22.63	23.41	23.88
8H	4H	21.03	21.91	21.49	22.35	22.81	21.51	22.38	21.97	22.83	23.29
	6H	21.67	22.40	22.17	22.89	23.36	22.22	22.95	22.72	23.44	23.91
	8H	21.87	22.52	22.38	23.03	23.52	22.48	23.13	22.99	23.64	24.12
	12H	22.00	22.58	22.51	23.07	23.63	22.66	23.24	23.17	23.73	24.29
12H	4H	21.07	21.86	21.55	22.33	22.80	21.53	22.32	22.01	22.79	23.26
	6H	21.73	22.38	22.24	22.89	23.37	22.26	22.91	22.77	23.42	23.90
	8H	21.98	22.56	22.49	23.05	23.61	22.57	23.14	23.07	23.63	24.19