

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: P1584402

Luminaire Tested: 14CZSP-54VHE-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584402
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-54VHE-L930-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 5200 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

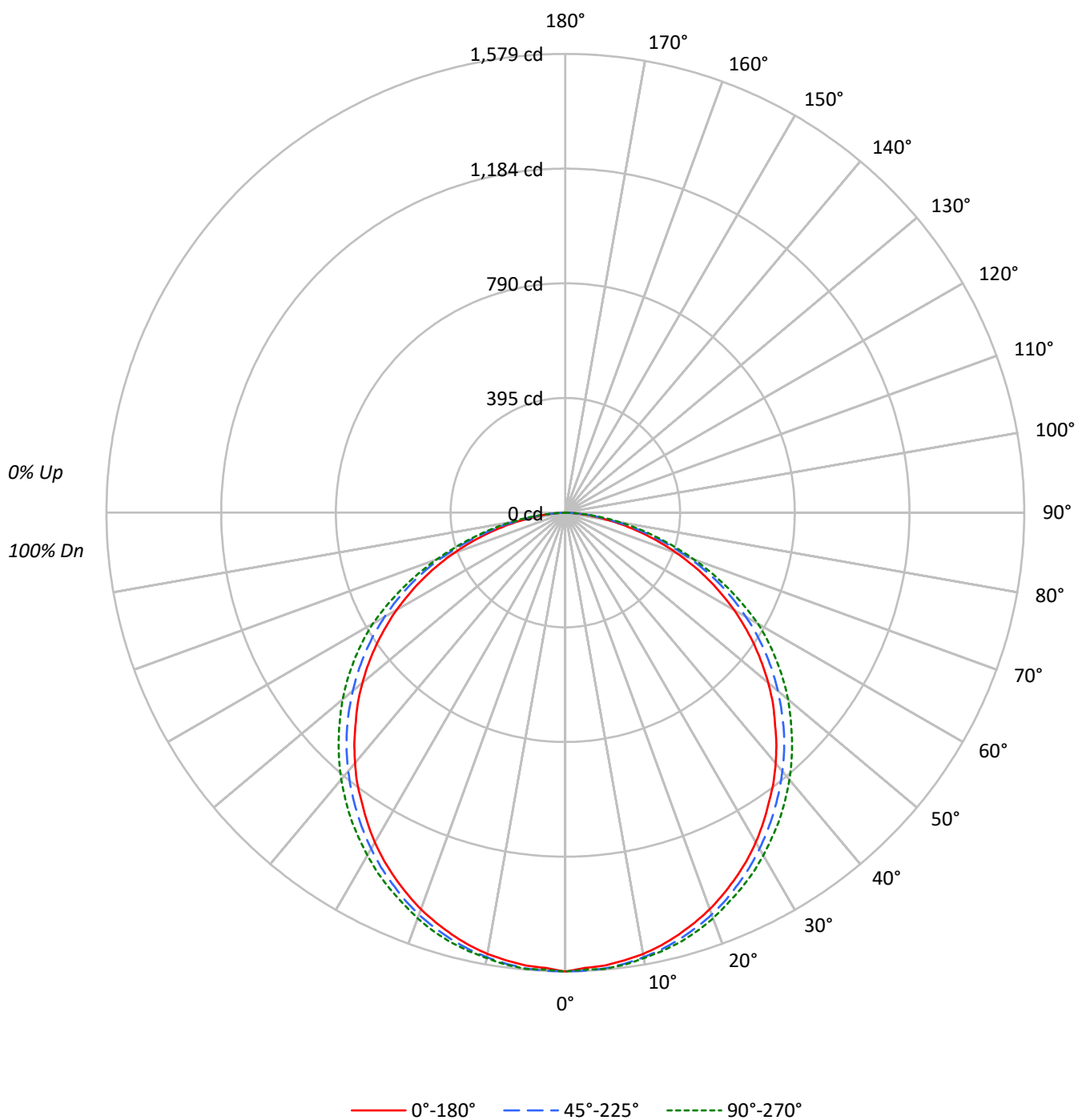
Lumens per Lamp: N/A
Luminaire Lumens: 4566.0 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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
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°	5322	5322	5322
5°	5292	5326	5331
10°	5277	5316	5328
15°	5247	5301	5338
20°	5210	5280	5329
25°	5157	5240	5312
30°	5099	5199	5301
35°	5018	5153	5292
40°	4952	5111	5277
45°	4858	5066	5256
50°	4777	5006	5246
55°	4663	4935	5211
60°	4520	4837	5159
65°	4319	4705	4946
70°	4026	4443	4641
75°	3596	4007	4235
80°	2948	3378	3704
85°	1976	2467	2753

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5256 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.6	3.3
10°-20°	428.8	9.4
20°-30°	649.3	14.2
30°-40°	784.1	17.2
40°-50°	819.5	17.9
50°-60°	750.9	16.4
60°-70°	579.7	12.7
70°-80°	326.1	7.1
80°-90°	78.0	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°	1227.7	26.9
0°-40°	2011.9	44.1
0°-60°	3582.3	78.5
0°-90°	4566.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4566.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1579	1579	1579	1579	1579	
5°	1565	1576	1575	1576	1576	149
15°	1504	1516	1520	1526	1530	424
25°	1387	1399	1409	1417	1429	639
35°	1220	1235	1253	1270	1286	764
45°	1020	1040	1063	1085	1103	788
55°	794	815	840	866	887	709
65°	542	565	590	614	620	535
75°	276	302	308	321	325	293
85°	51	58	64	70	71	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1579.4	1579.4	1579.4	1579.4	1579.4
2.5°	1568.6	1580.7	1578.0	1582.1	1574.7
5°	1564.6	1576.0	1574.7	1576.0	1576.0
7.5°	1554.5	1566.6	1565.9	1568.0	1569.3
10°	1542.4	1553.8	1553.8	1555.9	1557.2
12.5°	1525.6	1537.7	1539.1	1542.4	1545.1
15°	1504.1	1516.2	1519.6	1525.6	1530.3
17.5°	1479.9	1492.7	1498.1	1504.1	1510.2
20°	1453.0	1464.5	1472.5	1477.2	1486.0
22.5°	1421.4	1434.2	1443.0	1447.7	1457.1
25°	1387.2	1399.3	1409.3	1416.7	1428.8
27.5°	1350.9	1363.0	1375.1	1383.8	1397.9
30°	1310.6	1323.3	1336.1	1349.5	1362.3
32.5°	1266.9	1281.7	1295.8	1310.6	1324.7
35°	1219.8	1235.3	1252.8	1269.6	1286.4
37.5°	1176.1	1190.3	1208.4	1226.5	1243.3
40°	1125.7	1141.2	1162.0	1182.2	1199.7
42.5°	1074.7	1091.5	1114.3	1133.8	1152.6
45°	1019.5	1039.7	1063.2	1084.7	1102.9
47.5°	968.5	985.9	1009.5	1033.0	1051.8
50°	911.3	930.8	955.0	979.9	1000.7
52.5°	853.5	873.7	898.6	923.4	944.9
55°	793.7	814.6	840.1	866.3	887.1
57.5°	732.6	754.7	781.0	807.2	828.0
60°	670.7	692.9	717.8	746.7	765.5
62.5°	606.2	631.1	654.6	681.5	692.9
65°	541.7	565.2	590.1	613.6	620.3
67.5°	475.8	500.0	522.2	537.7	546.4
70°	408.6	434.8	451.0	465.8	471.1
72.5°	342.1	368.3	377.7	391.8	397.2
75°	276.2	301.8	307.8	320.6	325.3
77.5°	212.4	235.9	237.9	252.7	256.7
80°	151.9	170.7	174.1	188.2	190.9
82.5°	97.5	110.9	115.6	127.7	131.7
85°	51.1	58.5	63.8	69.9	71.2
87.5°	16.8	20.8	17.5	18.1	16.8
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	17.52	19.17	17.89	19.48	19.80	18.06	19.71	18.43	20.03	20.34
	3H	19.30	20.79	19.67	21.12	21.48	19.92	21.41	20.29	21.74	22.10
	4H	19.92	21.33	20.32	21.68	22.05	20.59	21.99	20.98	22.34	22.72
	6H	20.33	21.64	20.74	22.00	22.39	21.06	22.37	21.47	22.73	23.12
	8H	20.43	21.68	20.86	22.07	22.47	21.21	22.46	21.63	22.84	23.24
	12H	20.48	21.68	20.91	22.06	22.49	21.29	22.49	21.72	22.87	23.30
4H	2H	18.24	19.65	18.64	20.00	20.37	18.67	20.07	19.07	20.42	20.80
	3H	20.24	21.42	20.65	21.82	22.22	20.74	21.92	21.15	22.32	22.72
	4H	21.00	22.07	21.43	22.48	22.91	21.54	22.60	21.97	23.02	23.45
	6H	21.52	22.46	21.98	22.90	23.35	22.14	23.07	22.59	23.51	23.97
	8H	21.66	22.54	22.12	22.98	23.44	22.33	23.20	22.79	23.64	24.11
	12H	21.74	22.53	22.22	23.00	23.47	22.45	23.24	22.93	23.71	24.18
8H	4H	21.33	22.21	21.79	22.65	23.11	21.81	22.69	22.27	23.13	23.59
	6H	21.97	22.70	22.47	23.19	23.66	22.52	23.25	23.02	23.74	24.21
	8H	22.17	22.83	22.68	23.33	23.82	22.78	23.43	23.29	23.94	24.42
	12H	22.30	22.88	22.81	23.37	23.93	22.96	23.54	23.47	24.03	24.59
12H	4H	21.37	22.16	21.85	22.63	23.10	21.84	22.62	22.31	23.10	23.56
	6H	22.03	22.68	22.54	23.19	23.67	22.56	23.21	23.07	23.72	24.20
	8H	22.28	22.86	22.79	23.35	23.91	22.87	23.44	23.37	23.93	24.49