

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: P1584404

Luminaire Tested: 14CZSP-54VHE-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584404
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-L935-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 5200 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

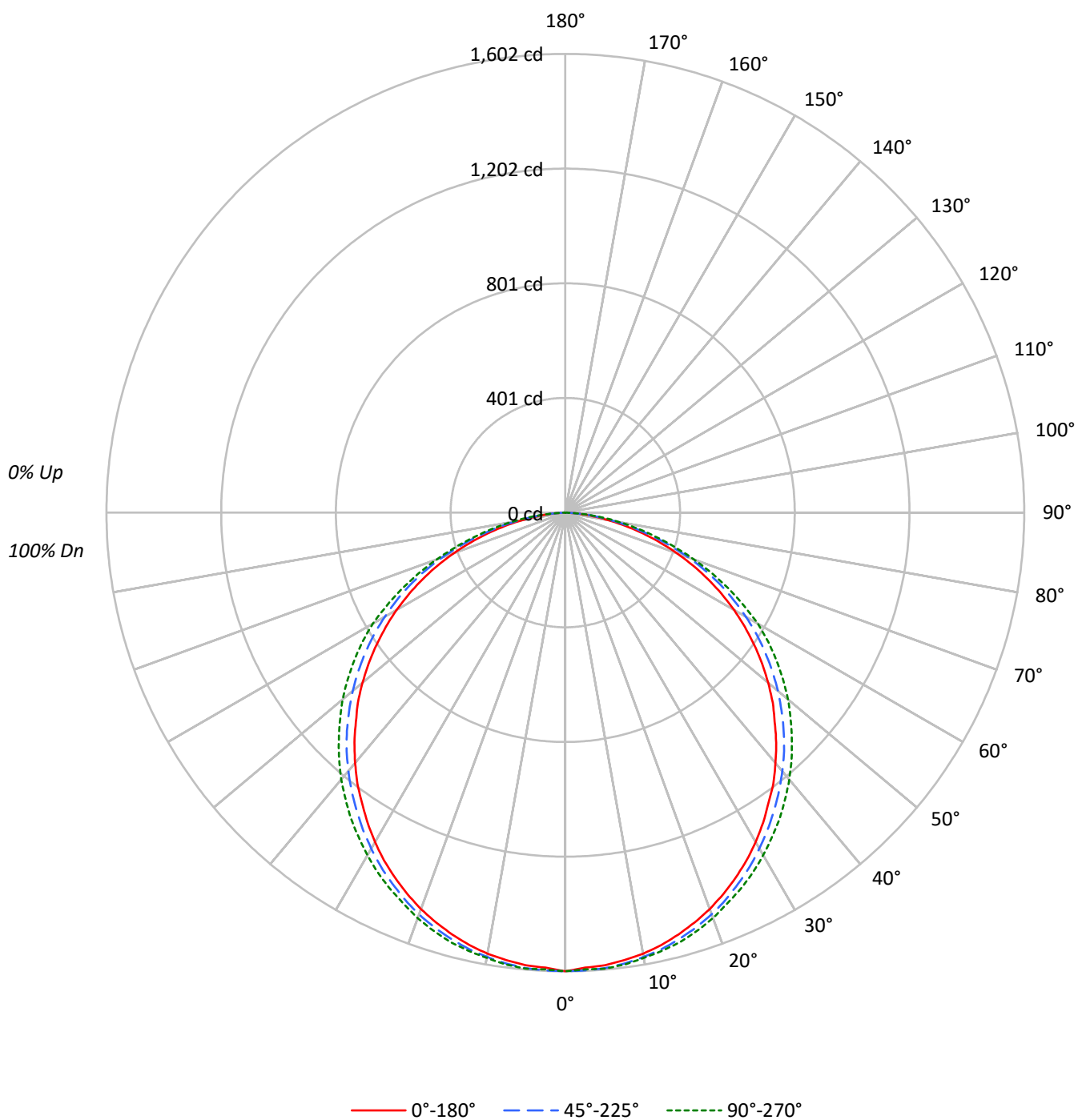
Lumens per Lamp: N/A
Luminaire Lumens: 4630.0 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	5396	5396	5396
5°	5366	5401	5405
10°	5351	5391	5403
15°	5321	5375	5413
20°	5283	5354	5403
25°	5230	5313	5387
30°	5171	5271	5375
35°	5088	5225	5366
40°	5021	5183	5351
45°	4926	5137	5329
50°	4844	5076	5320
55°	4728	5005	5285
60°	4583	4905	5231
65°	4380	4771	5015
70°	4083	4505	4706
75°	3647	4063	4294
80°	2988	3425	3755
85°	2003	2501	2791

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5329 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.7	3.3
10°-20°	434.8	9.4
20°-30°	658.4	14.2
30°-40°	795.1	17.2
40°-50°	831.0	17.9
50°-60°	761.5	16.4
60°-70°	587.8	12.7
70°-80°	330.6	7.1
80°-90°	79.1	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°	1244.9	26.9
0°-40°	2040.1	44.1
0°-60°	3632.5	78.5
0°-90°	4630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4630.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1602	1602	1602	1602	1602	
5°	1586	1598	1597	1598	1598	151
15°	1525	1538	1541	1547	1552	430
25°	1407	1419	1429	1437	1449	648
35°	1237	1253	1270	1287	1304	775
45°	1034	1054	1078	1100	1118	799
55°	805	826	852	878	900	719
65°	549	573	598	622	629	543
75°	280	306	312	325	330	297
85°	52	59	65	71	72	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1601.5	1601.5	1601.5	1601.5	1601.5
2.5°	1590.6	1602.9	1600.2	1604.2	1596.8
5°	1586.5	1598.1	1596.8	1598.1	1598.1
7.5°	1576.3	1588.6	1587.9	1589.9	1591.3
10°	1564.0	1575.6	1575.6	1577.7	1579.0
12.5°	1547.0	1559.3	1560.6	1564.0	1566.8
15°	1525.2	1537.5	1540.9	1547.0	1551.8
17.5°	1500.7	1513.6	1519.1	1525.2	1531.3
20°	1473.4	1485.0	1493.2	1497.9	1506.8
22.5°	1441.4	1454.3	1463.2	1467.9	1477.5
25°	1406.6	1418.9	1429.1	1436.6	1448.9
27.5°	1369.8	1382.1	1394.3	1403.2	1417.5
30°	1328.9	1341.9	1354.8	1368.4	1381.4
32.5°	1284.6	1299.6	1313.9	1328.9	1343.2
35°	1236.9	1252.6	1270.3	1287.4	1304.4
37.5°	1192.6	1206.9	1225.3	1243.7	1260.8
40°	1141.5	1157.2	1178.3	1198.8	1216.5
42.5°	1089.7	1106.8	1129.9	1149.7	1168.8
45°	1033.8	1054.3	1078.1	1099.9	1118.3
47.5°	982.0	999.8	1023.6	1047.5	1066.5
50°	924.1	943.9	968.4	993.6	1014.8
52.5°	865.5	885.9	911.2	936.4	958.2
55°	804.8	826.0	851.9	878.5	899.6
57.5°	742.8	765.3	791.9	818.5	839.6
60°	680.1	702.6	727.8	757.1	776.2
62.5°	614.7	639.9	663.8	691.0	702.6
65°	549.3	573.1	598.4	622.2	629.0
67.5°	482.5	507.0	529.5	545.2	554.1
70°	414.4	440.9	457.3	472.3	477.7
72.5°	346.9	373.5	383.0	397.3	402.8
75°	280.1	306.0	312.1	325.1	329.8
77.5°	215.4	239.2	241.3	256.2	260.3
80°	154.0	173.1	176.5	190.8	193.5
82.5°	98.8	112.4	117.2	129.5	133.6
85°	51.8	59.3	64.7	70.9	72.2
87.5°	17.0	21.1	17.7	18.4	17.0
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	17.57	19.22	17.93	19.53	19.85	18.11	19.76	18.47	20.07	20.39
	3H	19.34	20.84	19.72	21.16	21.52	19.97	21.46	20.34	21.79	22.15
	4H	19.97	21.38	20.37	21.73	22.10	20.63	22.04	21.03	22.39	22.76
	6H	20.38	21.68	20.79	22.05	22.44	21.11	22.42	21.52	22.78	23.17
	8H	20.48	21.73	20.91	22.12	22.52	21.26	22.50	21.68	22.89	23.29
	12H	20.53	21.73	20.96	22.11	22.54	21.34	22.53	21.77	22.92	23.34
4H	2H	18.29	19.70	18.69	20.05	20.42	18.72	20.12	19.11	20.47	20.85
	3H	20.29	21.47	20.70	21.87	22.27	20.79	21.97	21.20	22.37	22.76
	4H	21.05	22.11	21.48	22.53	22.96	21.58	22.65	22.01	23.06	23.50
	6H	21.57	22.51	22.03	22.95	23.40	22.19	23.12	22.64	23.56	24.01
	8H	21.71	22.59	22.17	23.03	23.49	22.38	23.25	22.84	23.69	24.16
	12H	21.79	22.58	22.27	23.05	23.52	22.50	23.28	22.98	23.76	24.23
8H	4H	21.38	22.26	21.84	22.70	23.16	21.86	22.73	22.32	23.18	23.64
	6H	22.02	22.75	22.52	23.24	23.71	22.57	23.30	23.07	23.79	24.26
	8H	22.22	22.87	22.73	23.38	23.86	22.83	23.48	23.34	23.99	24.47
	12H	22.35	22.93	22.86	23.42	23.98	23.01	23.59	23.52	24.08	24.64
12H	4H	21.42	22.21	21.90	22.68	23.15	21.88	22.67	22.36	23.14	23.61
	6H	22.08	22.73	22.59	23.24	23.72	22.61	23.26	23.12	23.77	24.25
	8H	22.33	22.90	22.84	23.39	23.95	22.92	23.49	23.42	23.98	24.54