

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: P1584698

Luminaire Tested: 14CZSP-A-54VHE-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584698
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-54VHE-L845-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 5200 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

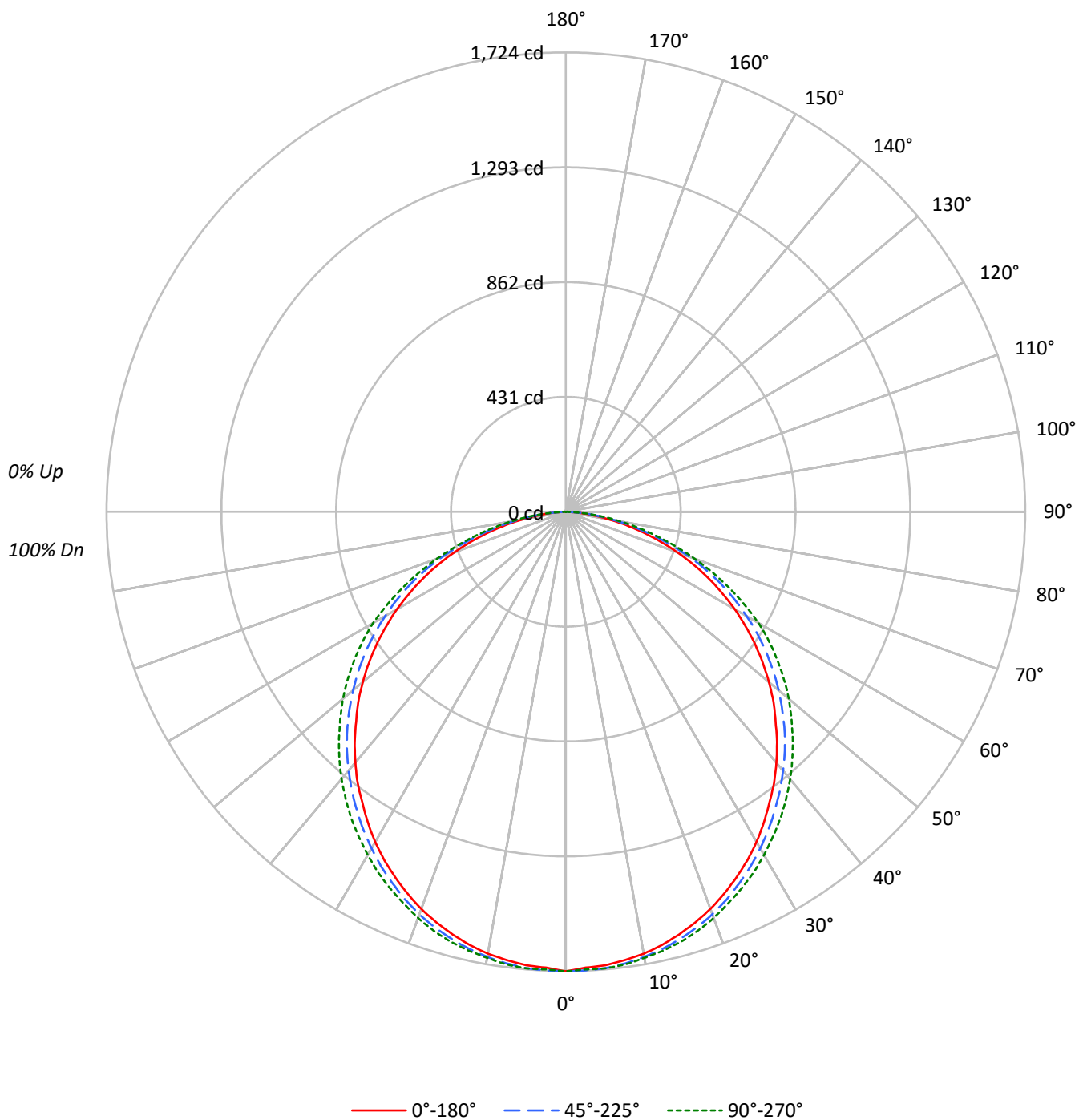
Lumens per Lamp: N/A
Luminaire Lumens: 4985.0 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			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°	5810	5810	5810
5°	5778	5815	5820
10°	5762	5804	5817
15°	5728	5787	5828
20°	5689	5765	5817
25°	5631	5721	5800
30°	5567	5676	5787
35°	5478	5626	5777
40°	5406	5581	5761
45°	5304	5532	5738
50°	5216	5466	5728
55°	5091	5388	5690
60°	4935	5281	5632
65°	4715	5136	5400
70°	4395	4850	5068
75°	3927	4376	4623
80°	3217	3687	4044
85°	2157	2695	3008

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5738 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.3	3.3
10°-20°	468.2	9.4
20°-30°	708.9	14.2
30°-40°	856.1	17.2
40°-50°	894.7	17.9
50°-60°	819.8	16.4
60°-70°	632.8	12.7
70°-80°	356.0	7.1
80°-90°	85.2	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°	1340.4	26.9
0°-40°	2196.5	44.1
0°-60°	3911.0	78.5
0°-90°	4985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4985.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1724	1724	1724	1724	1724	
5°	1708	1721	1719	1721	1721	162
15°	1642	1655	1659	1666	1671	463
25°	1514	1528	1539	1547	1560	698
35°	1332	1349	1368	1386	1404	834
45°	1113	1135	1161	1184	1204	860
55°	867	889	917	946	969	774
65°	591	617	644	670	677	584
75°	302	330	336	350	355	320
85°	56	64	70	76	78	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1724.3	1724.3	1724.3	1724.3	1724.3
2.5°	1712.6	1725.8	1722.8	1727.3	1719.2
5°	1708.2	1720.6	1719.2	1720.6	1720.6
7.5°	1697.2	1710.4	1709.6	1711.8	1713.3
10°	1684.0	1696.4	1696.4	1698.6	1700.1
12.5°	1665.6	1678.8	1680.3	1684.0	1686.9
15°	1642.1	1655.3	1659.0	1665.6	1670.8
17.5°	1615.7	1629.7	1635.5	1642.1	1648.7
20°	1586.4	1598.8	1607.6	1612.8	1622.3
22.5°	1551.9	1565.8	1575.4	1580.5	1590.8
25°	1514.5	1527.7	1538.7	1546.7	1560.0
27.5°	1474.8	1488.0	1501.3	1510.8	1526.2
30°	1430.8	1444.8	1458.7	1473.4	1487.3
32.5°	1383.1	1399.3	1414.7	1430.8	1446.2
35°	1331.8	1348.6	1367.7	1386.1	1404.4
37.5°	1284.1	1299.5	1319.3	1339.1	1357.4
40°	1229.0	1245.9	1268.7	1290.7	1309.7
42.5°	1173.3	1191.6	1216.6	1237.8	1258.4
45°	1113.1	1135.1	1160.8	1184.3	1204.1
47.5°	1057.3	1076.4	1102.1	1127.8	1148.3
50°	995.0	1016.2	1042.7	1069.8	1092.6
52.5°	931.9	953.9	981.0	1008.2	1031.7
55°	866.6	889.3	917.2	945.8	968.6
57.5°	799.8	824.0	852.6	881.2	904.0
60°	732.3	756.5	783.6	815.2	835.7
62.5°	661.8	689.0	714.7	744.0	756.5
65°	591.4	617.1	644.2	669.9	677.3
67.5°	519.5	545.9	570.1	587.0	596.5
70°	446.1	474.7	492.3	508.5	514.4
72.5°	373.5	402.1	412.4	427.8	433.6
75°	301.6	329.5	336.1	350.0	355.1
77.5°	231.9	257.5	259.7	275.9	280.3
80°	165.8	186.4	190.0	205.5	208.4
82.5°	106.4	121.1	126.2	139.4	143.8
85°	55.8	63.8	69.7	76.3	77.8
87.5°	18.3	22.7	19.1	19.8	18.3
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	17.83	19.48	18.19	19.79	20.10	18.37	20.02	18.73	20.33	20.64
	3H	19.60	21.09	19.98	21.42	21.78	20.22	21.72	20.60	22.04	22.40
	4H	20.23	21.64	20.63	21.98	22.36	20.89	22.30	21.29	22.65	23.02
	6H	20.64	21.94	21.05	22.31	22.70	21.37	22.67	21.78	23.04	23.43
	8H	20.74	21.99	21.16	22.38	22.77	21.51	22.76	21.94	23.15	23.55
	12H	20.79	21.98	21.22	22.37	22.79	21.60	22.79	22.03	23.17	23.60
4H	2H	18.55	19.96	18.95	20.30	20.68	18.97	20.38	19.37	20.73	21.10
	3H	20.54	21.73	20.95	22.12	22.52	21.04	22.22	21.45	22.62	23.02
	4H	21.30	22.37	21.73	22.78	23.22	21.84	22.91	22.27	23.32	23.76
	6H	21.83	22.76	22.28	23.20	23.66	22.44	23.38	22.90	23.82	24.27
	8H	21.97	22.84	22.43	23.28	23.75	22.63	23.51	23.09	23.95	24.41
	12H	22.05	22.83	22.53	23.31	23.78	22.76	23.54	23.23	24.02	24.48
8H	4H	21.64	22.51	22.10	22.95	23.42	22.12	22.99	22.58	23.43	23.90
	6H	22.28	23.01	22.77	23.49	23.97	22.83	23.56	23.32	24.04	24.52
	8H	22.48	23.13	22.99	23.64	24.12	23.09	23.74	23.59	24.24	24.73
	12H	22.61	23.18	23.11	23.67	24.23	23.27	23.84	23.77	24.33	24.89
12H	4H	21.68	22.46	22.16	22.94	23.41	22.14	22.93	22.62	23.40	23.87
	6H	22.33	22.99	22.84	23.49	23.98	22.87	23.52	23.37	24.02	24.51
	8H	22.59	23.16	23.09	23.65	24.21	23.17	23.75	23.68	24.24	24.80