

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: P1584411

Luminaire Tested: 14CZSP-54VHE-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-776-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-54VHE-L950
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 5200 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

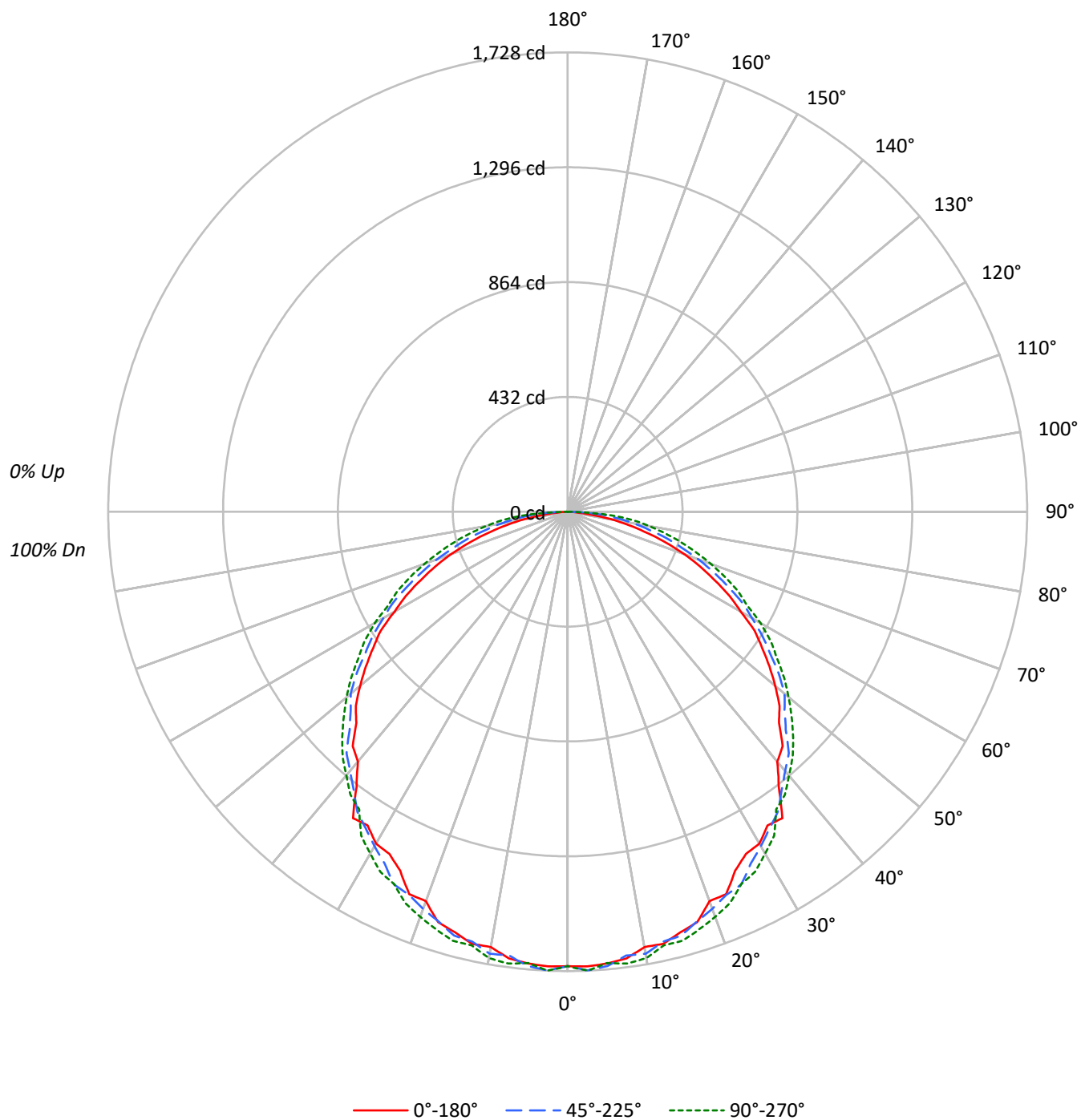
Lumens per Lamp: N/A
Luminaire Lumens: 5123.0 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	88	81	75	84	78	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	61		71	65	60		68	63	59	57
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61	55	51	48
5	75	62	52	46	73	61	52	45	58	51	45		56	50	44		55	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5759	5759	5759
5°	5769	5802	5763
10°	5688	5776	5833
15°	5713	5756	5827
20°	5589	5699	5816
25°	5539	5749	5745
30°	5608	5653	5776
35°	5788	5668	5622
40°	5395	5597	5698
45°	5354	5526	5715
50°	5341	5581	5687
55°	5246	5458	5644
60°	5068	5394	5643
65°	4872	5301	5631
70°	4607	5153	5638
75°	4070	5033	5743
80°	3349	4904	6083
85°	1871	5173	6774

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 6774 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.0	3.2
10°-20°	465.0	9.1
20°-30°	706.6	13.8
30°-40°	859.3	16.8
40°-50°	902.0	17.6
50°-60°	834.3	16.3
60°-70°	657.2	12.8
70°-80°	404.0	7.9
80°-90°	132.7	2.6
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°	1333.6	26.0
0°-40°	2192.9	42.8
0°-60°	3929.2	76.7
0°-90°	5123.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5123.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1709	1709	1709	1709	1709	
5°	1706	1676	1715	1700	1704	162
15°	1638	1633	1650	1672	1670	461
25°	1490	1517	1546	1542	1545	692
35°	1407	1357	1378	1399	1367	853
45°	1124	1147	1160	1193	1199	873
55°	893	921	929	953	961	798
65°	611	635	665	694	706	605
75°	313	347	387	426	441	333
85°	48	84	134	164	175	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1709.1	1709.1	1709.1	1709.1	1709.1
2.5°	1711.8	1714.4	1726.7	1699.4	1727.6
5°	1705.6	1675.7	1715.3	1700.3	1703.8
7.5°	1694.2	1697.7	1683.6	1692.4	1714.4
10°	1662.5	1684.5	1688.0	1691.5	1704.7
12.5°	1664.2	1650.1	1656.3	1681.8	1670.4
15°	1637.8	1633.4	1650.1	1672.1	1670.4
17.5°	1619.3	1609.6	1615.8	1626.3	1646.6
20°	1558.5	1584.1	1589.4	1621.9	1621.9
22.5°	1556.8	1555.9	1559.4	1576.2	1593.8
25°	1489.9	1517.2	1546.2	1541.8	1545.3
27.5°	1451.1	1481.9	1491.6	1521.6	1526.8
30°	1441.4	1446.7	1452.9	1485.5	1484.6
32.5°	1399.2	1408.0	1412.4	1430.9	1445.0
35°	1407.1	1356.9	1378.0	1399.2	1366.6
37.5°	1304.1	1312.0	1320.8	1336.7	1341.9
40°	1226.6	1246.8	1272.4	1290.9	1295.3
42.5°	1196.6	1226.6	1231.0	1247.7	1252.1
45°	1123.6	1147.3	1159.7	1193.1	1199.3
47.5°	1080.4	1083.9	1106.0	1137.7	1142.1
50°	1018.8	1042.6	1064.6	1078.7	1084.8
52.5°	956.3	982.7	1000.3	1013.5	1025.8
55°	892.9	921.0	929.0	952.7	960.7
57.5°	833.9	842.7	868.2	891.1	905.2
60°	752.0	781.9	800.4	842.7	837.4
62.5°	685.9	706.2	740.5	761.7	759.0
65°	611.1	634.9	664.8	693.9	706.2
67.5°	539.8	571.5	593.5	631.3	640.1
70°	467.6	482.5	523.0	560.0	572.3
72.5°	390.1	413.9	449.1	489.6	504.5
75°	312.6	346.9	386.6	426.2	441.1
77.5°	239.5	269.4	314.4	360.1	375.1
80°	172.6	199.9	252.7	295.0	313.5
82.5°	101.3	138.2	190.2	236.9	251.0
85°	48.4	84.5	133.8	163.8	175.2
87.5°	13.2	37.9	59.0	76.6	79.2
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	17.89	19.56	18.25	19.87	20.19	18.32	19.99	18.68	20.30	20.62
	3H	19.70	21.21	20.07	21.54	21.90	20.40	21.92	20.78	22.24	22.60
	4H	20.33	21.76	20.73	22.11	22.49	21.28	22.71	21.68	23.06	23.44
	6H	20.75	22.08	21.16	22.44	22.83	22.07	23.40	22.48	23.76	24.15
	8H	20.85	22.12	21.27	22.51	22.90	22.41	23.68	22.83	24.07	24.47
	12H	20.89	22.10	21.32	22.49	22.91	22.70	23.91	23.12	24.29	24.72
4H	2H	18.62	20.05	19.02	20.40	20.77	18.95	20.38	19.35	20.73	21.11
	3H	20.65	21.85	21.06	22.25	22.65	21.27	22.47	21.68	22.87	23.27
	4H	21.42	22.52	21.85	22.93	23.36	22.31	23.40	22.74	23.81	24.25
	6H	21.96	22.92	22.41	23.36	23.81	23.26	24.22	23.71	24.66	25.11
	8H	22.10	23.00	22.56	23.44	23.91	23.68	24.58	24.14	25.02	25.48
	12H	22.17	22.99	22.65	23.46	23.93	24.04	24.86	24.52	25.33	25.80
8H	4H	21.86	22.76	22.31	23.20	23.66	22.63	23.53	23.09	23.97	24.43
	6H	22.53	23.29	23.03	23.77	24.25	23.74	24.50	24.24	24.98	25.46
	8H	22.75	23.42	23.25	23.93	24.41	24.28	24.96	24.79	25.46	25.95
	12H	22.88	23.48	23.39	23.97	24.53	24.79	25.38	25.29	25.87	26.43
12H	4H	21.94	22.75	22.42	23.22	23.69	22.66	23.47	23.14	23.95	24.41
	6H	22.66	23.34	23.17	23.85	24.33	23.81	24.48	24.31	24.99	25.47
	8H	22.95	23.55	23.46	24.04	24.60	24.42	25.02	24.93	25.51	26.07