

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: P1584405

Luminaire Tested: 14CZSP-54VHE-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584405
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-L935
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 5200 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

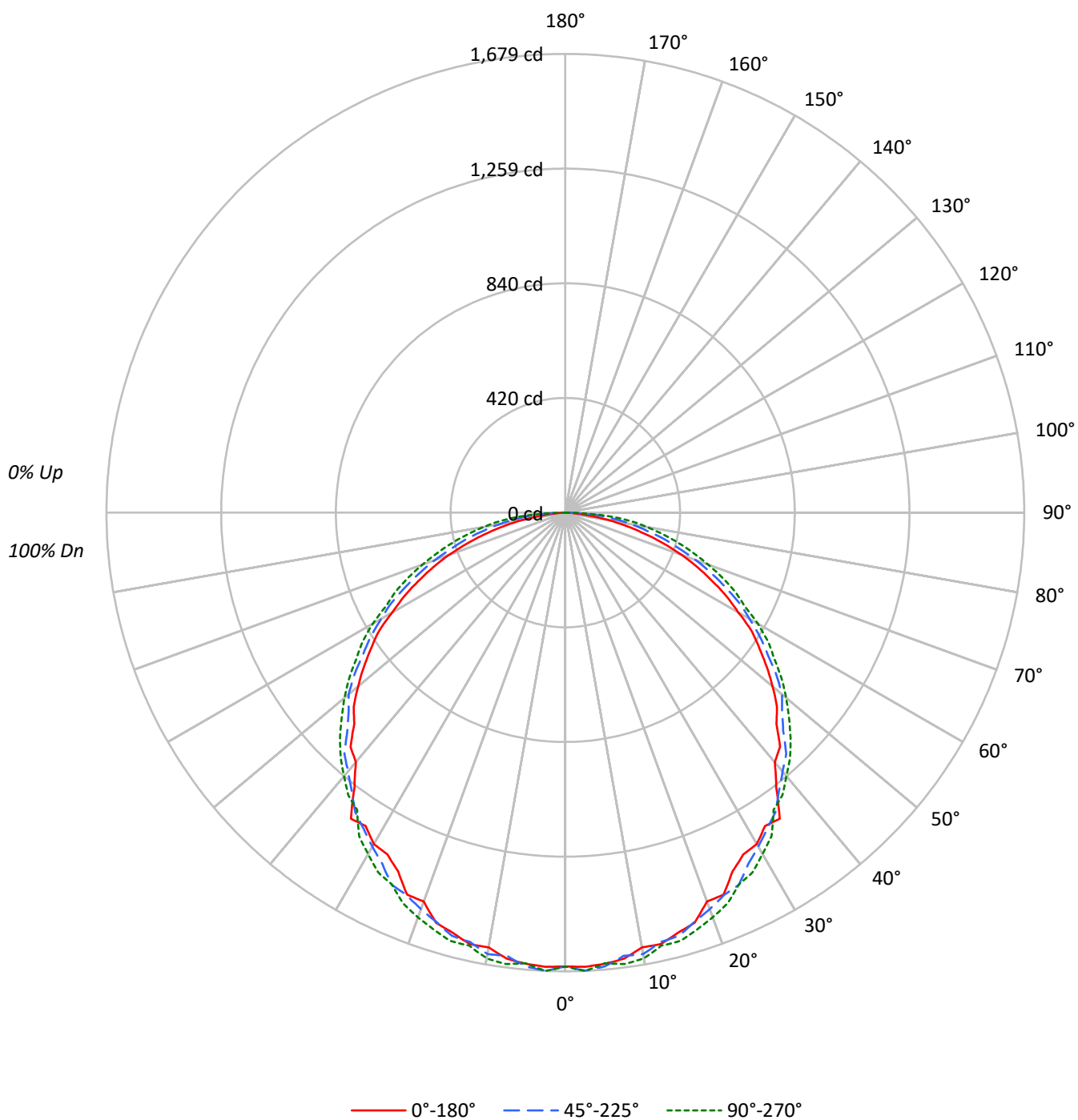
Lumens per Lamp: N/A
Luminaire Lumens: 4979.0 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5597	5597	5597
5°	5607	5639	5601
10°	5528	5613	5669
15°	5553	5594	5663
20°	5431	5539	5653
25°	5384	5587	5584
30°	5451	5494	5614
35°	5625	5509	5464
40°	5244	5439	5537
45°	5204	5371	5554
50°	5190	5424	5527
55°	5098	5304	5485
60°	4925	5242	5485
65°	4735	5151	5472
70°	4477	5008	5481
75°	3955	4891	5581
80°	3254	4766	5913
85°	1821	5030	6584

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 6584 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.4	3.2
10°-20°	451.9	9.1
20°-30°	686.8	13.8
30°-40°	835.2	16.8
40°-50°	876.7	17.6
50°-60°	810.8	16.3
60°-70°	638.7	12.8
70°-80°	392.6	7.9
80°-90°	128.9	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°	1296.1	26.0
0°-40°	2131.3	42.8
0°-60°	3818.7	76.7
0°-90°	4979.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4979.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1661	1661	1661	1661	1661	
5°	1658	1629	1667	1652	1656	157
15°	1592	1588	1604	1625	1623	448
25°	1448	1474	1503	1498	1502	672
35°	1368	1319	1339	1360	1328	829
45°	1092	1115	1127	1160	1166	849
55°	868	895	903	926	934	776
65°	594	617	646	674	686	588
75°	304	337	376	414	429	323
85°	47	82	130	159	170	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1661.1	1661.1	1661.1	1661.1	1661.1
2.5°	1663.6	1666.2	1678.2	1651.7	1679.1
5°	1657.7	1628.6	1667.1	1652.5	1655.9
7.5°	1646.5	1650.0	1636.3	1644.8	1666.2
10°	1615.7	1637.1	1640.5	1644.0	1656.8
12.5°	1617.4	1603.7	1609.7	1634.5	1623.4
15°	1591.8	1587.5	1603.7	1625.1	1623.4
17.5°	1573.8	1564.4	1570.4	1580.6	1600.3
20°	1514.7	1539.6	1544.7	1576.4	1576.4
22.5°	1513.0	1512.2	1515.6	1531.9	1549.0
25°	1448.0	1474.5	1502.8	1498.5	1501.9
27.5°	1410.3	1440.3	1449.7	1478.8	1483.9
30°	1400.9	1406.1	1412.0	1443.7	1442.9
32.5°	1359.8	1368.4	1372.7	1390.7	1404.3
35°	1367.5	1318.8	1339.3	1359.8	1328.2
37.5°	1267.4	1275.1	1283.7	1299.1	1304.2
40°	1192.1	1211.8	1236.6	1254.6	1258.9
42.5°	1163.0	1192.1	1196.4	1212.6	1216.9
45°	1092.0	1115.1	1127.1	1159.6	1165.6
47.5°	1050.0	1053.5	1074.9	1105.7	1110.0
50°	990.1	1013.2	1034.6	1048.3	1054.3
52.5°	929.4	955.1	972.2	985.0	997.0
55°	867.8	895.2	902.9	926.0	933.7
57.5°	810.4	819.0	843.8	866.1	879.7
60°	730.8	759.9	777.9	819.0	813.9
62.5°	666.7	686.3	719.7	740.3	737.7
65°	593.9	617.0	646.1	674.4	686.3
67.5°	524.6	555.4	576.8	613.6	622.2
70°	454.4	469.0	508.3	544.3	556.3
72.5°	379.1	402.2	436.5	475.8	490.4
75°	303.8	337.2	375.7	414.2	428.7
77.5°	232.8	261.9	305.5	350.0	364.6
80°	167.7	194.3	245.6	286.7	304.7
82.5°	98.4	134.4	184.8	230.2	243.9
85°	47.1	82.2	130.1	159.2	170.3
87.5°	12.8	36.8	57.3	74.5	77.0
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	17.79	19.46	18.15	19.77	20.09	18.22	19.89	18.59	20.20	20.52
	3H	19.60	21.11	19.97	21.44	21.80	20.31	21.82	20.68	22.15	22.51
	4H	20.23	21.66	20.63	22.01	22.39	21.19	22.62	21.58	22.96	23.34
	6H	20.65	21.98	21.06	22.34	22.73	21.97	23.30	22.38	23.66	24.05
	8H	20.75	22.02	21.17	22.41	22.80	22.31	23.58	22.73	23.97	24.37
	12H	20.79	22.01	21.22	22.39	22.81	22.60	23.81	23.03	24.20	24.62
4H	2H	18.52	19.95	18.92	20.30	20.67	18.86	20.29	19.25	20.63	21.01
	3H	20.55	21.75	20.96	22.15	22.55	21.17	22.37	21.58	22.77	23.17
	4H	21.32	22.42	21.75	22.83	23.26	22.21	23.30	22.64	23.71	24.15
	6H	21.86	22.82	22.32	23.26	23.72	23.16	24.12	23.61	24.56	25.01
	8H	22.00	22.90	22.46	23.34	23.81	23.58	24.48	24.04	24.92	25.38
	12H	22.08	22.89	22.55	23.36	23.83	23.95	24.76	24.42	25.23	25.70
8H	4H	21.76	22.66	22.22	23.10	23.56	22.53	23.43	22.99	23.87	24.33
	6H	22.44	23.19	22.93	23.67	24.15	23.65	24.40	24.14	24.88	25.36
	8H	22.65	23.32	23.16	23.83	24.31	24.19	24.86	24.69	25.37	25.85
	12H	22.79	23.38	23.29	23.87	24.43	24.69	25.29	25.19	25.77	26.33
12H	4H	21.84	22.65	22.32	23.12	23.59	22.56	23.37	23.04	23.85	24.31
	6H	22.57	23.24	23.07	23.75	24.23	23.71	24.38	24.21	24.89	25.37
	8H	22.85	23.45	23.36	23.94	24.50	24.32	24.92	24.83	25.41	25.97