

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: P1584703

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584703
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-A-54VHE-L930
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 5200 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

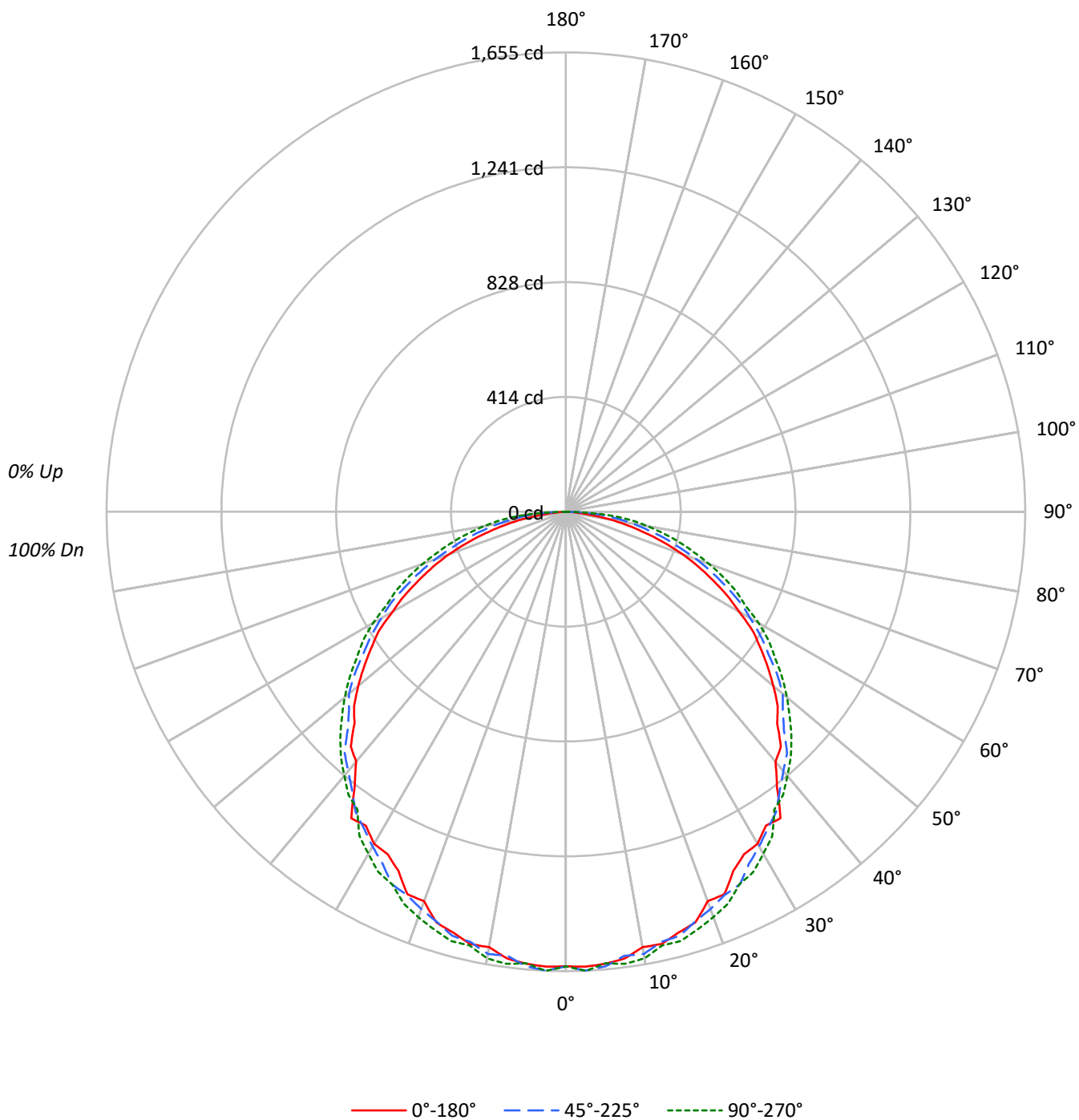
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4909.0 lumens
Efficiency: N/A
Efficacy: 130.9 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°	5518	5518	5518
5°	5528	5559	5523
10°	5451	5534	5589
15°	5475	5516	5584
20°	5355	5461	5573
25°	5308	5508	5505
30°	5374	5417	5535
35°	5546	5432	5387
40°	5170	5363	5460
45°	5130	5295	5476
50°	5117	5347	5449
55°	5026	5230	5408
60°	4856	5169	5407
65°	4669	5079	5395
70°	4414	4938	5403
75°	3899	4822	5503
80°	3210	4700	5829
85°	1794	4960	6491

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 6491 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.2	3.2
10°-20°	445.5	9.1
20°-30°	677.1	13.8
30°-40°	823.4	16.8
40°-50°	864.3	17.6
50°-60°	799.4	16.3
60°-70°	629.8	12.8
70°-80°	387.1	7.9
80°-90°	127.1	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°	1277.9	26.0
0°-40°	2101.3	42.8
0°-60°	3765.0	76.7
0°-90°	4909.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4909.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1638	1638	1638	1638	1638	
5°	1634	1606	1644	1629	1633	155
15°	1569	1565	1581	1602	1601	442
25°	1428	1454	1482	1477	1481	663
35°	1348	1300	1320	1341	1310	817
45°	1077	1099	1111	1143	1149	837
55°	856	883	890	913	920	765
65°	586	608	637	665	677	580
75°	300	332	370	408	423	319
85°	46	81	128	157	168	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1637.7	1637.7	1637.7	1637.7	1637.7
2.5°	1640.3	1642.8	1654.6	1628.4	1655.4
5°	1634.4	1605.7	1643.6	1629.3	1632.7
7.5°	1623.4	1626.8	1613.3	1621.7	1642.8
10°	1593.0	1614.1	1617.5	1620.9	1633.5
12.5°	1594.7	1581.2	1587.1	1611.6	1600.6
15°	1569.4	1565.2	1581.2	1602.3	1600.6
17.5°	1551.7	1542.4	1548.3	1558.4	1577.8
20°	1493.4	1517.9	1523.0	1554.2	1554.2
22.5°	1491.8	1490.9	1494.3	1510.3	1527.2
25°	1427.6	1453.8	1481.6	1477.4	1480.8
27.5°	1390.5	1420.0	1429.3	1458.0	1463.1
30°	1381.2	1386.3	1392.2	1423.4	1422.6
32.5°	1340.7	1349.2	1353.4	1371.1	1384.6
35°	1348.3	1300.2	1320.5	1340.7	1309.5
37.5°	1249.6	1257.2	1265.6	1280.8	1285.9
40°	1175.3	1194.8	1219.2	1236.9	1241.2
42.5°	1146.7	1175.3	1179.6	1195.6	1199.8
45°	1076.6	1099.4	1111.2	1143.3	1149.2
47.5°	1035.3	1038.7	1059.8	1090.1	1094.3
50°	976.2	999.0	1020.1	1033.6	1039.5
52.5°	916.3	941.6	958.5	971.2	983.0
55°	855.6	882.6	890.2	912.9	920.5
57.5°	799.0	807.5	831.9	853.9	867.4
60°	720.6	749.3	767.0	807.5	802.4
62.5°	657.3	676.7	709.6	729.8	727.3
65°	585.6	608.3	637.0	664.9	676.7
67.5°	517.2	547.6	568.7	605.0	613.4
70°	448.0	462.4	501.2	536.6	548.4
72.5°	373.8	396.6	430.3	469.1	483.5
75°	299.5	332.4	370.4	408.4	422.7
77.5°	229.5	258.2	301.2	345.1	359.4
80°	165.4	191.5	242.2	282.7	300.4
82.5°	97.0	132.5	182.3	227.0	240.5
85°	46.4	81.0	128.3	156.9	167.9
87.5°	12.7	36.3	56.5	73.4	75.9
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	17.74	19.41	18.10	19.72	20.04	18.17	19.84	18.54	20.16	20.47
	3H	19.55	21.06	19.92	21.39	21.75	20.26	21.77	20.63	22.10	22.46
	4H	20.19	21.62	20.58	21.96	22.34	21.14	22.57	21.53	22.91	23.29
	6H	20.60	21.93	21.01	22.29	22.68	21.92	23.25	22.33	23.61	24.00
	8H	20.70	21.97	21.12	22.36	22.75	22.26	23.53	22.68	23.92	24.32
	12H	20.74	21.96	21.17	22.34	22.77	22.55	23.77	22.98	24.15	24.57
4H	2H	18.47	19.90	18.87	20.25	20.62	18.81	20.24	19.20	20.58	20.96
	3H	20.50	21.70	20.91	22.10	22.50	21.12	22.33	21.53	22.72	23.12
	4H	21.27	22.37	21.71	22.78	23.22	22.16	23.25	22.59	23.67	24.10
	6H	21.81	22.77	22.27	23.21	23.67	23.11	24.07	23.56	24.51	24.96
	8H	21.95	22.85	22.41	23.29	23.76	23.53	24.43	23.99	24.87	25.33
	12H	22.03	22.84	22.51	23.31	23.78	23.90	24.71	24.38	25.18	25.65
8H	4H	21.71	22.61	22.17	23.05	23.51	22.48	23.38	22.94	23.82	24.29
	6H	22.39	23.14	22.88	23.62	24.10	23.60	24.35	24.09	24.83	25.31
	8H	22.60	23.28	23.11	23.78	24.26	24.14	24.81	24.64	25.32	25.80
	12H	22.74	23.33	23.24	23.82	24.38	24.64	25.24	25.14	25.73	26.28
12H	4H	21.79	22.60	22.27	23.08	23.54	22.51	23.32	22.99	23.80	24.27
	6H	22.52	23.19	23.02	23.70	24.18	23.66	24.33	24.16	24.84	25.32
	8H	22.80	23.40	23.31	23.89	24.45	24.27	24.87	24.78	25.36	25.92