

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: P1584406

Luminaire Tested: 14CZSP-54VHE-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584406
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-L940-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 5200 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

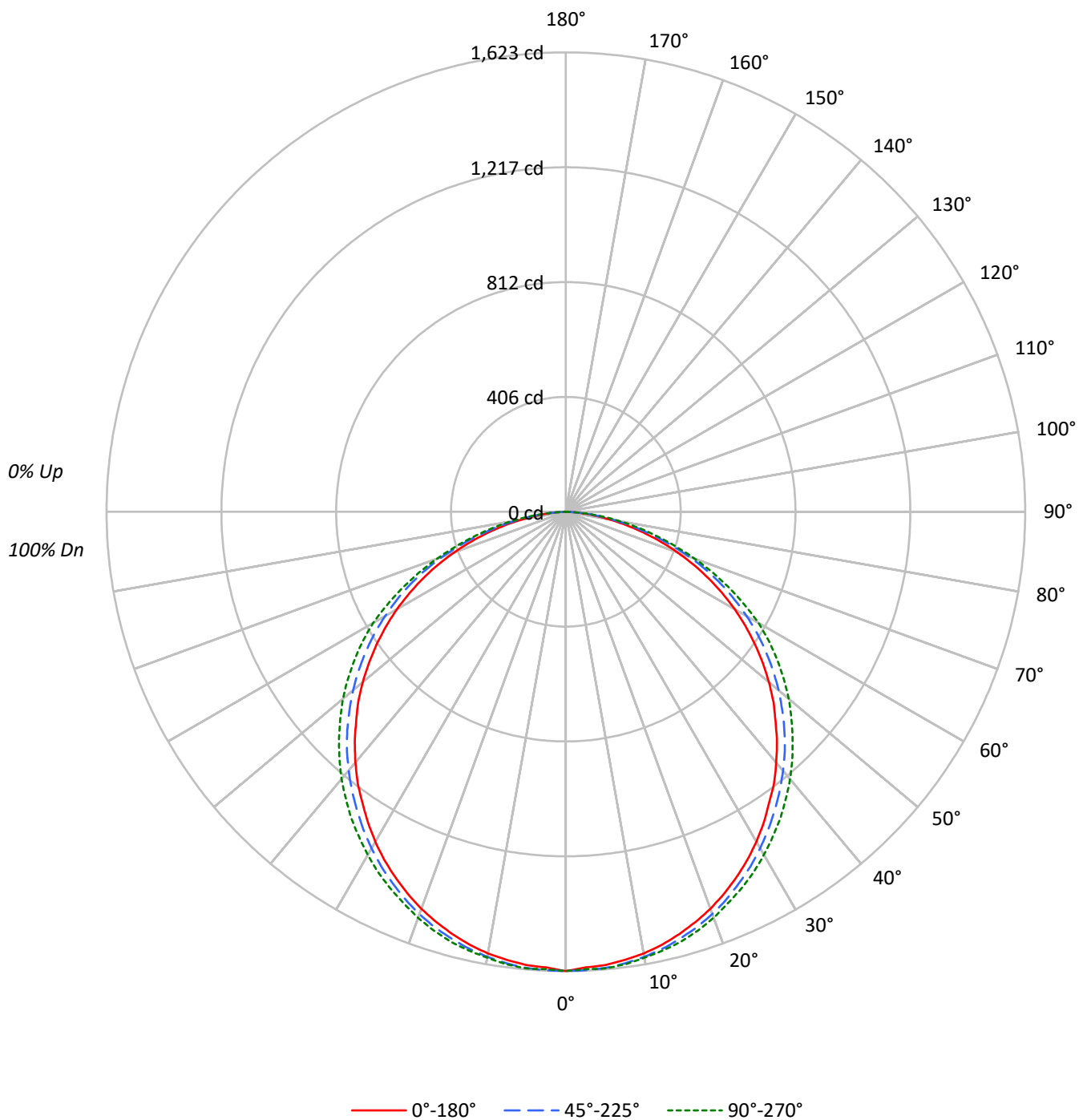
Lumens per Lamp: N/A
Luminaire Lumens: 4691.0 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	5467	5467	5467
5°	5437	5472	5477
10°	5422	5462	5474
15°	5391	5446	5485
20°	5353	5425	5474
25°	5298	5383	5458
30°	5239	5341	5446
35°	5155	5294	5436
40°	5087	5251	5421
45°	4992	5205	5400
50°	4908	5144	5389
55°	4791	5070	5354
60°	4644	4969	5300
65°	4437	4833	5081
70°	4136	4564	4768
75°	3695	4117	4351
80°	3027	3470	3805
85°	2030	2536	2830

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5400 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.7	3.3
10°-20°	440.6	9.4
20°-30°	667.1	14.2
30°-40°	805.6	17.2
40°-50°	841.9	17.9
50°-60°	771.5	16.4
60°-70°	595.5	12.7
70°-80°	335.0	7.1
80°-90°	80.1	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°	1261.3	26.9
0°-40°	2066.9	44.1
0°-60°	3680.3	78.5
0°-90°	4691.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4691.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1623	1623	1623	1623	1623	
5°	1607	1619	1618	1619	1619	153
15°	1545	1558	1561	1567	1572	436
25°	1425	1438	1448	1456	1468	657
35°	1253	1269	1287	1304	1322	785
45°	1048	1068	1092	1114	1133	809
55°	816	837	863	890	911	729
65°	556	581	606	630	637	550
75°	284	310	316	329	334	301
85°	52	60	66	72	73	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1622.6	1622.6	1622.6	1622.6	1622.6
2.5°	1611.6	1624.0	1621.2	1625.4	1617.8
5°	1607.4	1619.2	1617.8	1619.2	1619.2
7.5°	1597.1	1609.5	1608.8	1610.9	1612.3
10°	1584.6	1596.4	1596.4	1598.5	1599.8
12.5°	1567.4	1579.8	1581.2	1584.6	1587.4
15°	1545.3	1557.7	1561.2	1567.4	1572.2
17.5°	1520.4	1533.5	1539.1	1545.3	1551.5
20°	1492.8	1504.5	1512.8	1517.7	1526.6
22.5°	1460.4	1473.5	1482.5	1487.3	1497.0
25°	1425.1	1437.6	1447.9	1455.5	1468.0
27.5°	1387.9	1400.3	1412.7	1421.7	1436.2
30°	1346.4	1359.5	1372.7	1386.5	1399.6
32.5°	1301.5	1316.7	1331.2	1346.4	1360.9
35°	1253.2	1269.1	1287.0	1304.3	1321.6
37.5°	1208.3	1222.8	1241.5	1260.1	1277.4
40°	1156.5	1172.4	1193.8	1214.5	1232.5
42.5°	1104.1	1121.3	1144.8	1164.8	1184.2
45°	1047.5	1068.2	1092.3	1114.4	1133.1
47.5°	995.0	1012.9	1037.1	1061.3	1080.6
50°	936.3	956.3	981.2	1006.7	1028.1
52.5°	876.9	897.6	923.2	948.7	970.8
55°	815.5	836.9	863.1	890.0	911.4
57.5°	752.6	775.4	802.3	829.3	850.7
60°	689.1	711.9	737.4	767.1	786.5
62.5°	622.8	648.4	672.5	700.1	711.9
65°	556.5	580.7	606.2	630.4	637.3
67.5°	488.9	513.7	536.5	552.4	561.4
70°	419.8	446.7	463.3	478.5	484.0
72.5°	351.5	378.4	388.0	402.5	408.1
75°	283.8	310.0	316.2	329.4	334.2
77.5°	218.2	242.4	244.4	259.6	263.8
80°	156.0	175.4	178.8	193.3	196.1
82.5°	100.1	113.9	118.8	131.2	135.3
85°	52.5	60.1	65.6	71.8	73.2
87.5°	17.3	21.4	18.0	18.6	17.3
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	17.61	19.26	17.98	19.58	19.89	18.15	19.80	18.52	20.12	20.43
	3H	19.39	20.88	19.77	21.21	21.57	20.01	21.50	20.39	21.83	22.19
	4H	20.02	21.42	20.41	21.77	22.15	20.68	22.09	21.08	22.43	22.81
	6H	20.43	21.73	20.84	22.09	22.48	21.16	22.46	21.57	22.83	23.22
	8H	20.53	21.78	20.95	22.16	22.56	21.30	22.55	21.73	22.94	23.34
	12H	20.58	21.77	21.01	22.15	22.58	21.39	22.58	21.82	22.96	23.39
4H	2H	18.34	19.75	18.74	20.09	20.47	18.76	20.17	19.16	20.52	20.89
	3H	20.33	21.51	20.74	21.91	22.31	20.83	22.01	21.24	22.41	22.81
	4H	21.09	22.16	21.52	22.57	23.01	21.63	22.70	22.06	23.11	23.55
	6H	21.62	22.55	22.07	22.99	23.45	22.23	23.17	22.69	23.61	24.06
	8H	21.76	22.63	22.22	23.07	23.54	22.42	23.30	22.88	23.74	24.20
	12H	21.84	22.62	22.32	23.10	23.57	22.54	23.33	23.02	23.80	24.27
8H	4H	21.43	22.30	21.89	22.74	23.21	21.91	22.78	22.36	23.22	23.69
	6H	22.07	22.79	22.56	23.28	23.76	22.62	23.34	23.11	23.83	24.31
	8H	22.27	22.92	22.78	23.42	23.91	22.88	23.53	23.38	24.03	24.52
	12H	22.40	22.97	22.90	23.46	24.02	23.06	23.63	23.56	24.12	24.68
12H	4H	21.47	22.25	21.94	22.73	23.19	21.93	22.71	22.41	23.19	23.66
	6H	22.12	22.78	22.63	23.28	23.77	22.65	23.31	23.16	23.81	24.30
	8H	22.38	22.95	22.88	23.44	24.00	22.96	23.54	23.47	24.03	24.59