

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: P1584707

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584707
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-L940
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 5200 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

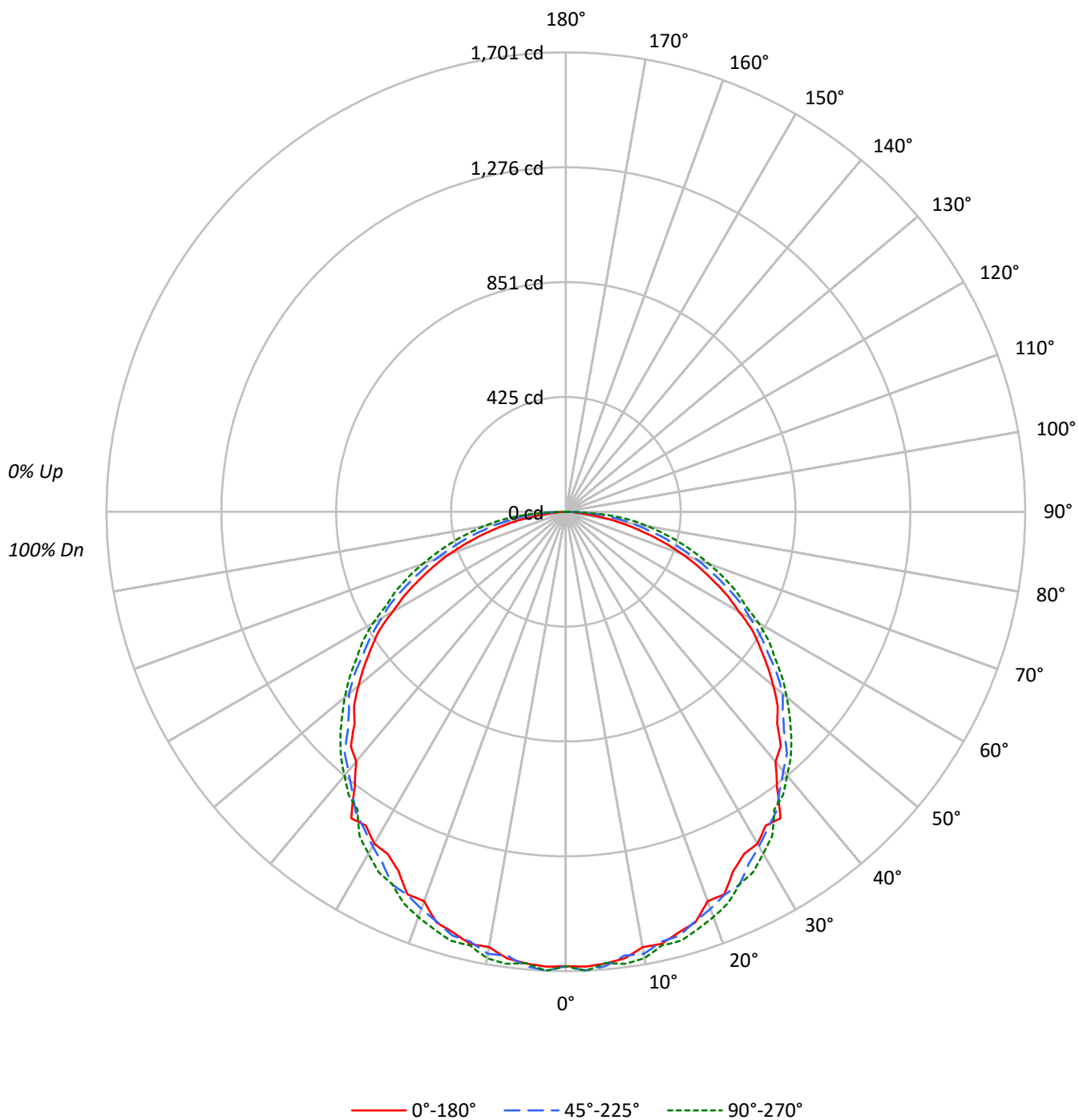
Lumens per Lamp: N/A
Luminaire Lumens: 5044.0 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1584707

CATALOG NUMBER: 14CZSP-A-54VHE-L940

Luminous Intensity Polar Plot



TEST NUMBER: P1584707

CATALOG NUMBER: 14CZSP-A-54VHE-L940

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°	5670	5670	5670
5°	5680	5712	5674
10°	5600	5687	5743
15°	5625	5668	5737
20°	5502	5611	5726
25°	5454	5660	5657
30°	5522	5566	5687
35°	5699	5581	5535
40°	5312	5511	5610
45°	5271	5441	5627
50°	5258	5495	5599
55°	5164	5373	5557
60°	4990	5311	5556
65°	4797	5219	5544
70°	4536	5074	5552
75°	4007	4955	5654
80°	3297	4828	5988
85°	1844	5096	6669

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 6669 cd/sqm

TEST NUMBER: P1584707

CATALOG NUMBER: 14CZSP-A-54VHE-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.5	3.2
10°-20°	457.8	9.1
20°-30°	695.7	13.8
30°-40°	846.1	16.8
40°-50°	888.1	17.6
50°-60°	821.4	16.3
60°-70°	647.1	12.8
70°-80°	397.7	7.9
80°-90°	130.6	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°	1313.0	26.0
0°-40°	2159.1	42.8
0°-60°	3868.6	76.7
0°-90°	5044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5044.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1683	1683	1683	1683	1683	
5°	1679	1650	1689	1674	1678	159
15°	1612	1608	1625	1646	1645	454
25°	1467	1494	1522	1518	1522	681
35°	1385	1336	1357	1378	1346	839
45°	1106	1130	1142	1175	1181	860
55°	879	907	915	938	946	786
65°	602	625	655	683	695	596
75°	308	342	381	420	434	328
85°	48	83	132	161	172	67
90°	0	0	0	0	0	

TEST NUMBER: P1584707

CATALOG NUMBER: 14CZSP-A-54VHE-L940

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1682.8	1682.8	1682.8	1682.8	1682.8
2.5°	1685.4	1688.0	1700.1	1673.2	1701.0
5°	1679.3	1649.8	1688.8	1674.1	1677.6
7.5°	1668.0	1671.5	1657.6	1666.3	1688.0
10°	1636.8	1658.5	1662.0	1665.4	1678.4
12.5°	1638.5	1624.7	1630.7	1655.9	1644.6
15°	1612.5	1608.2	1624.7	1646.4	1644.6
17.5°	1594.3	1584.8	1590.9	1601.3	1621.2
20°	1534.5	1559.7	1564.9	1596.9	1596.9
22.5°	1532.8	1531.9	1535.4	1551.9	1569.2
25°	1466.9	1493.8	1522.4	1518.0	1521.5
27.5°	1428.7	1459.1	1468.6	1498.1	1503.3
30°	1419.2	1424.4	1430.5	1462.6	1461.7
32.5°	1377.6	1386.3	1390.6	1408.8	1422.7
35°	1385.4	1336.0	1356.8	1377.6	1345.5
37.5°	1284.0	1291.8	1300.4	1316.0	1321.2
40°	1207.7	1227.6	1252.8	1271.0	1275.3
42.5°	1178.2	1207.7	1212.0	1228.5	1232.8
45°	1106.2	1129.6	1141.8	1174.7	1180.8
47.5°	1063.8	1067.2	1088.9	1120.1	1124.4
50°	1003.1	1026.5	1048.2	1062.0	1068.1
52.5°	941.5	967.5	984.9	997.9	1010.0
55°	879.1	906.8	914.6	938.0	945.9
57.5°	821.0	829.7	854.8	877.4	891.2
60°	740.4	769.9	788.1	829.7	824.5
62.5°	675.4	695.3	729.1	749.9	747.3
65°	601.7	625.1	654.6	683.2	695.3
67.5°	531.4	562.7	584.3	621.6	630.3
70°	460.4	475.1	515.0	551.4	563.5
72.5°	384.1	407.5	442.1	482.0	496.8
75°	307.8	341.6	380.6	419.6	434.3
77.5°	235.8	265.3	309.5	354.6	369.3
80°	169.9	196.8	248.8	290.4	308.6
82.5°	99.7	136.1	187.3	233.2	247.1
85°	47.7	83.2	131.8	161.3	172.5
87.5°	13.0	37.3	58.1	75.4	78.0
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584707

CATALOG NUMBER: 14CZSP-A-54VHE-L940

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	19.50	18.20	19.82	20.13	18.27	19.94	18.63	20.25	20.56
	3H	19.64	21.16	20.02	21.48	21.84	20.35	21.87	20.73	22.19	22.55
	4H	20.28	21.71	20.68	22.06	22.43	21.23	22.66	21.63	23.01	23.38
	6H	20.69	22.02	21.10	22.39	22.78	22.02	23.34	22.43	23.71	24.10
	8H	20.79	22.06	21.22	22.45	22.85	22.35	23.62	22.78	24.01	24.41
	12H	20.83	22.05	21.26	22.43	22.86	22.64	23.86	23.07	24.24	24.67
4H	2H	18.57	20.00	18.96	20.34	20.72	18.90	20.33	19.30	20.68	21.05
	3H	20.59	21.80	21.00	22.19	22.59	21.21	22.42	21.62	22.82	23.22
	4H	21.37	22.46	21.80	22.88	23.31	22.25	23.35	22.68	23.76	24.19
	6H	21.91	22.87	22.36	23.31	23.76	23.21	24.16	23.66	24.60	25.06
	8H	22.05	22.95	22.51	23.39	23.85	23.62	24.52	24.08	24.96	25.43
	12H	22.12	22.93	22.60	23.41	23.87	23.99	24.80	24.47	25.28	25.74
8H	4H	21.80	22.70	22.26	23.14	23.61	22.58	23.47	23.03	23.92	24.38
	6H	22.48	23.23	22.97	23.72	24.19	23.69	24.44	24.18	24.93	25.40
	8H	22.69	23.37	23.20	23.87	24.36	24.23	24.91	24.74	25.41	25.89
	12H	22.83	23.43	23.34	23.92	24.48	24.73	25.33	25.24	25.82	26.38
12H	4H	21.88	22.70	22.36	23.17	23.64	22.61	23.42	23.09	23.89	24.36
	6H	22.61	23.29	23.12	23.79	24.28	23.75	24.43	24.26	24.93	25.42
	8H	22.90	23.50	23.40	23.99	24.54	24.37	24.96	24.87	25.45	26.01