

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: P1584684

Luminaire Tested: 14CZSP-A-54HE-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584684
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-A-54HE-L935-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

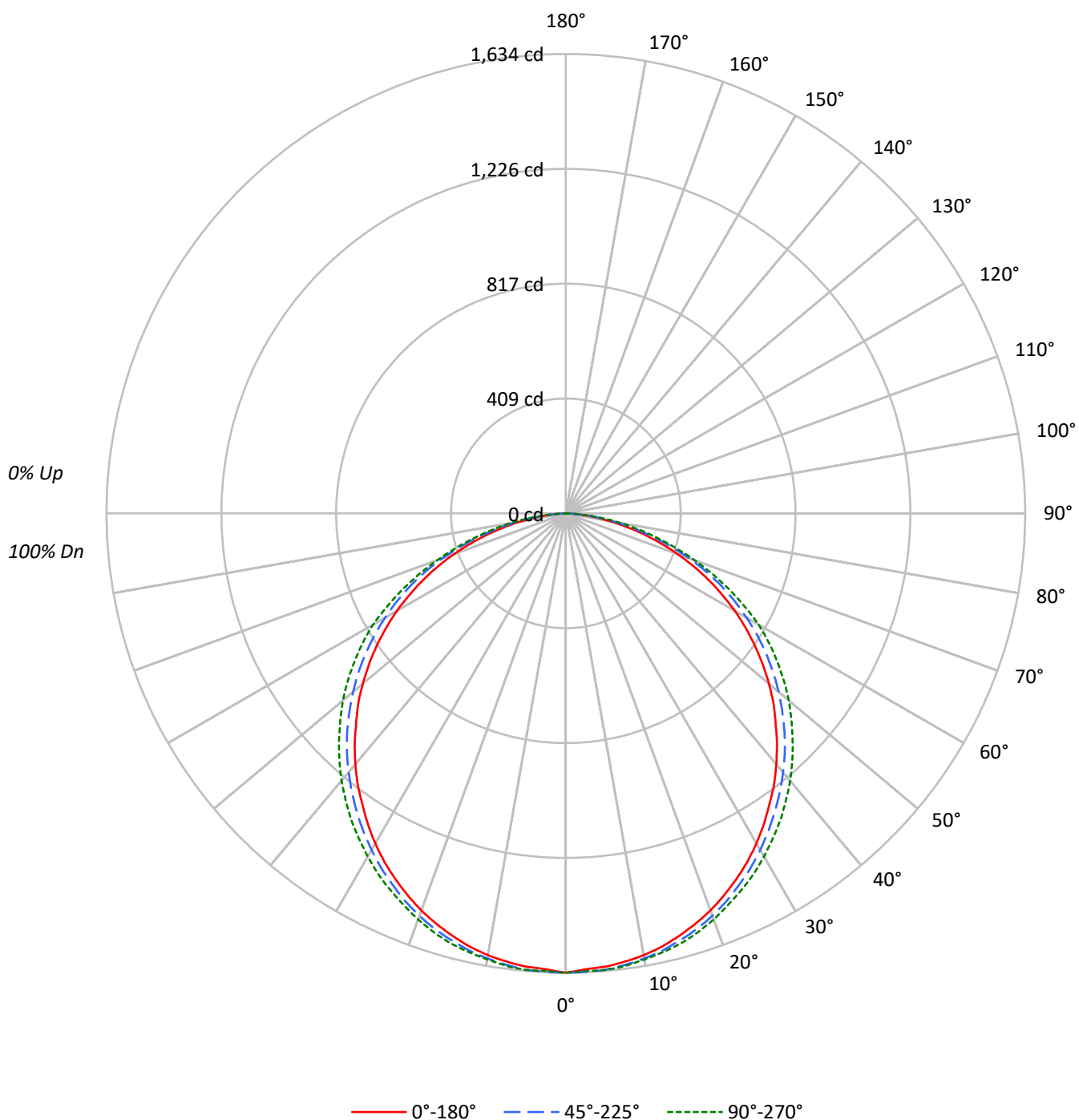
Lumens per Lamp: N/A
Luminaire Lumens: 4724.0 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37.3
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: P1584684

CATALOG NUMBER: 14CZSP-A-54HE-L935-S

Luminous Intensity Polar Plot



TEST NUMBER: P1584684

CATALOG NUMBER: 14CZSP-A-54HE-L935-S

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	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5506	5506	5506
5°	5475	5511	5515
10°	5460	5500	5512
15°	5429	5485	5523
20°	5391	5463	5513
25°	5336	5421	5496
30°	5276	5378	5484
35°	5191	5332	5475
40°	5123	5288	5460
45°	5026	5242	5437
50°	4943	5180	5428
55°	4824	5106	5392
60°	4676	5004	5337
65°	4468	4868	5117
70°	4165	4597	4802
75°	3721	4147	4381
80°	3048	3495	3832
85°	2041	2556	2849

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5437 cd/sqm

TEST NUMBER: P1584684

CATALOG NUMBER: 14CZSP-A-54HE-L935-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.8	3.3
10°-20°	443.7	9.4
20°-30°	671.8	14.2
30°-40°	811.3	17.2
40°-50°	847.8	17.9
50°-60°	776.9	16.4
60°-70°	599.7	12.7
70°-80°	337.3	7.1
80°-90°	80.7	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°	1270.2	26.9
0°-40°	2081.5	44.1
0°-60°	3706.2	78.5
0°-90°	4724.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4724.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1634	1634	1634	1634	1634	
5°	1619	1631	1629	1631	1631	154
15°	1556	1569	1572	1578	1583	439
25°	1435	1448	1458	1466	1478	661
35°	1262	1278	1296	1314	1331	791
45°	1055	1076	1100	1122	1141	815
55°	821	843	869	896	918	734
65°	560	585	610	635	642	554
75°	286	312	318	332	336	303
85°	53	60	66	72	74	68
90°	0	0	0	0	0	

TEST NUMBER: P1584684

CATALOG NUMBER: 14CZSP-A-54HE-L935-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1634.0	1634.0	1634.0	1634.0	1634.0
2.5°	1622.9	1635.4	1632.6	1636.8	1629.2
5°	1618.7	1630.6	1629.2	1630.6	1630.6
7.5°	1608.3	1620.8	1620.1	1622.2	1623.6
10°	1595.8	1607.6	1607.6	1609.7	1611.1
12.5°	1578.4	1590.9	1592.3	1595.8	1598.6
15°	1556.2	1568.7	1572.2	1578.4	1583.3
17.5°	1531.1	1544.3	1549.9	1556.2	1562.4
20°	1503.3	1515.1	1523.5	1528.3	1537.4
22.5°	1470.6	1483.8	1492.9	1497.8	1507.5
25°	1435.2	1447.7	1458.1	1465.8	1478.3
27.5°	1397.6	1410.1	1422.7	1431.7	1446.3
30°	1355.9	1369.1	1382.3	1396.2	1409.4
32.5°	1310.7	1326.0	1340.6	1355.9	1370.5
35°	1262.0	1278.0	1296.1	1313.5	1330.9
37.5°	1216.8	1231.4	1250.2	1269.0	1286.4
40°	1164.7	1180.7	1202.2	1223.1	1241.2
42.5°	1111.8	1129.2	1152.9	1173.0	1192.5
45°	1054.8	1075.7	1100.0	1122.3	1141.0
47.5°	1002.0	1020.1	1044.4	1068.7	1088.2
50°	942.9	963.0	988.1	1013.8	1035.4
52.5°	883.1	903.9	929.7	955.4	977.6
55°	821.2	842.7	869.2	896.3	917.8
57.5°	757.9	780.9	808.0	835.1	856.7
60°	693.9	716.9	742.6	772.5	792.0
62.5°	627.2	652.9	677.3	705.1	716.9
65°	560.4	584.8	610.5	634.8	641.8
67.5°	492.3	517.3	540.3	556.3	565.3
70°	422.8	449.9	466.6	481.9	487.4
72.5°	353.9	381.0	390.8	405.4	410.9
75°	285.8	312.2	318.5	331.7	336.5
77.5°	219.7	244.1	246.1	261.4	265.6
80°	157.1	176.6	180.1	194.7	197.5
82.5°	100.8	114.7	119.6	132.1	136.3
85°	52.8	60.5	66.1	72.3	73.7
87.5°	17.4	21.6	18.1	18.8	17.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584684

CATALOG NUMBER: 14CZSP-A-54HE-L935-S

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	17.64	19.29	18.00	19.60	19.92	18.18	19.83	18.54	20.14	20.46
	3H	19.42	20.91	19.79	21.23	21.59	20.04	21.53	20.41	21.86	22.22
	4H	20.04	21.45	20.44	21.80	22.17	20.70	22.11	21.10	22.46	22.83
	6H	20.45	21.75	20.86	22.12	22.51	21.18	22.49	21.59	22.85	23.24
	8H	20.55	21.80	20.98	22.19	22.59	21.33	22.57	21.75	22.96	23.36
	12H	20.60	21.80	21.03	22.18	22.61	21.41	22.60	21.84	22.99	23.41
4H	2H	18.36	19.77	18.76	20.12	20.49	18.79	20.19	19.18	20.54	20.92
	3H	20.36	21.54	20.77	21.94	22.34	20.86	22.04	21.27	22.43	22.83
	4H	21.12	22.18	21.55	22.60	23.03	21.65	22.72	22.08	23.13	23.57
	6H	21.64	22.58	22.10	23.02	23.47	22.26	23.19	22.71	23.63	24.08
	8H	21.78	22.66	22.24	23.10	23.56	22.45	23.32	22.91	23.76	24.23
	12H	21.86	22.65	22.34	23.12	23.59	22.57	23.35	23.05	23.83	24.30
8H	4H	21.45	22.33	21.91	22.77	23.23	21.93	22.80	22.39	23.25	23.71
	6H	22.09	22.82	22.59	23.31	23.78	22.64	23.37	23.13	23.86	24.33
	8H	22.29	22.94	22.80	23.45	23.93	22.90	23.55	23.41	24.06	24.54
	12H	22.42	23.00	22.93	23.49	24.05	23.08	23.66	23.59	24.15	24.71
12H	4H	21.49	22.28	21.97	22.75	23.22	21.95	22.74	22.43	23.21	23.68
	6H	22.15	22.80	22.66	23.31	23.79	22.68	23.33	23.19	23.84	24.32
	8H	22.40	22.97	22.91	23.46	24.02	22.99	23.56	23.49	24.05	24.61