

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: P1584382

Luminaire Tested: 14CZSP-54HE-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584382
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-54HE-L930-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 5000 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

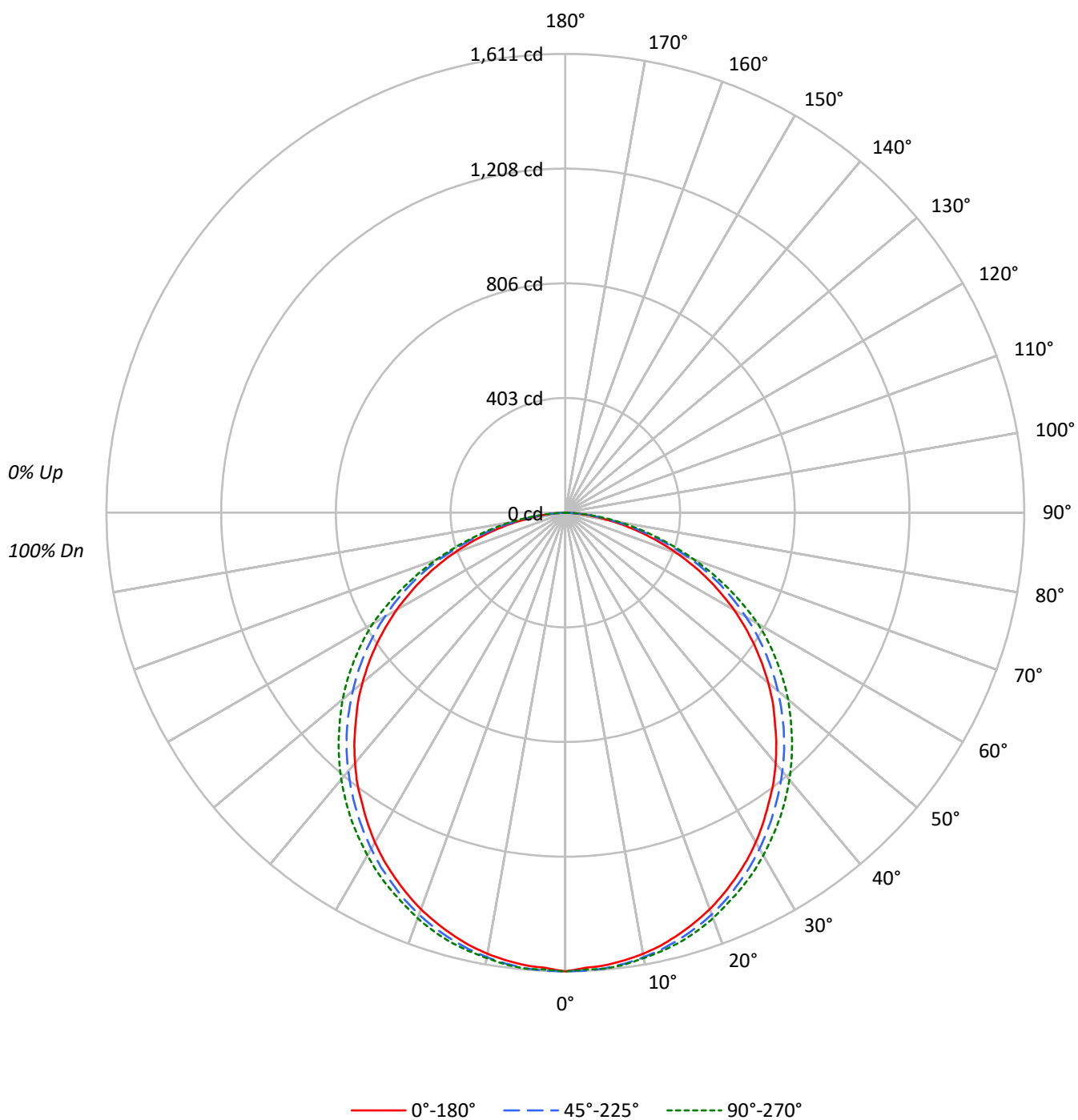
Lumens per Lamp: N/A
Luminaire Lumens: 4658.0 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1584382

CATALOG NUMBER: 14CZSP-54HE-L930-S

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	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°	5429	5429	5429
5°	5399	5434	5438
10°	5384	5424	5435
15°	5353	5408	5446
20°	5315	5387	5436
25°	5261	5345	5419
30°	5202	5303	5408
35°	5119	5257	5398
40°	5051	5214	5383
45°	4956	5169	5361
50°	4874	5107	5352
55°	4757	5035	5317
60°	4611	4934	5263
65°	4406	4800	5045
70°	4107	4533	4735
75°	3669	4088	4320
80°	3008	3446	3778
85°	2014	2517	2811

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5361 cd/sqm

TEST NUMBER: P1584382

CATALOG NUMBER: 14CZSP-54HE-L930-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.6	3.3
10°-20°	437.5	9.4
20°-30°	662.4	14.2
30°-40°	799.9	17.2
40°-50°	836.0	17.9
50°-60°	766.1	16.4
60°-70°	591.3	12.7
70°-80°	332.6	7.1
80°-90°	79.6	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°	1252.5	26.9
0°-40°	2052.4	44.1
0°-60°	3654.5	78.5
0°-90°	4658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4658.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1611	1611	1611	1611	1611	
5°	1596	1608	1606	1608	1608	152
15°	1534	1547	1550	1556	1561	433
25°	1415	1428	1438	1445	1458	652
35°	1244	1260	1278	1295	1312	780
45°	1040	1061	1085	1107	1125	804
55°	810	831	857	884	905	723
65°	553	577	602	626	633	546
75°	282	308	314	327	332	299
85°	52	60	65	71	73	67
90°	0	0	0	0	0	

TEST NUMBER: P1584382

CATALOG NUMBER: 14CZSP-54HE-L930-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1611.2	1611.2	1611.2	1611.2	1611.2
2.5°	1600.2	1612.6	1609.8	1613.9	1606.4
5°	1596.1	1607.8	1606.4	1607.8	1607.8
7.5°	1585.8	1598.2	1597.5	1599.6	1600.9
10°	1573.5	1585.2	1585.2	1587.2	1588.6
12.5°	1556.4	1568.7	1570.1	1573.5	1576.2
15°	1534.4	1546.8	1550.2	1556.4	1561.2
17.5°	1509.7	1522.8	1528.2	1534.4	1540.6
20°	1482.3	1494.0	1502.2	1507.0	1515.9
22.5°	1450.1	1463.1	1472.0	1476.8	1486.4
25°	1415.1	1427.5	1437.7	1445.3	1457.6
27.5°	1378.1	1390.4	1402.8	1411.7	1426.1
30°	1337.0	1350.0	1363.0	1376.7	1389.8
32.5°	1292.4	1307.5	1321.9	1337.0	1351.4
35°	1244.4	1260.2	1278.0	1295.1	1312.3
37.5°	1199.8	1214.2	1232.7	1251.3	1268.4
40°	1148.4	1164.2	1185.4	1206.0	1223.8
42.5°	1096.3	1113.4	1136.8	1156.6	1175.8
45°	1040.1	1060.7	1084.7	1106.6	1125.1
47.5°	988.0	1005.8	1029.8	1053.8	1073.0
50°	929.7	949.6	974.3	999.6	1020.9
52.5°	870.7	891.3	916.7	942.0	964.0
55°	809.7	831.0	857.0	883.8	905.0
57.5°	747.3	770.0	796.7	823.4	844.7
60°	684.2	706.9	732.2	761.7	780.9
62.5°	618.4	643.8	667.8	695.2	706.9
65°	552.6	576.6	602.0	626.0	632.8
67.5°	485.4	510.1	532.7	548.5	557.4
70°	416.9	443.6	460.1	475.1	480.6
72.5°	349.0	375.7	385.3	399.7	405.2
75°	281.8	307.8	314.0	327.0	331.8
77.5°	216.7	240.7	242.7	257.8	261.9
80°	155.0	174.1	177.6	192.0	194.7
82.5°	99.4	113.1	117.9	130.3	134.4
85°	52.1	59.6	65.1	71.3	72.7
87.5°	17.1	21.3	17.8	18.5	17.1
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584382

CATALOG NUMBER: 14CZSP-54HE-L930-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	17.59	19.24	17.96	19.55	19.87	18.13	19.78	18.49	20.09	20.41
	3H	19.37	20.86	19.74	21.19	21.55	19.99	21.48	20.36	21.81	22.17
	4H	19.99	21.40	20.39	21.75	22.12	20.66	22.06	21.05	22.41	22.78
	6H	20.40	21.71	20.81	22.07	22.46	21.13	22.44	21.54	22.80	23.19
	8H	20.50	21.75	20.93	22.14	22.54	21.28	22.52	21.70	22.91	23.31
	12H	20.55	21.75	20.98	22.13	22.56	21.36	22.56	21.79	22.94	23.37
4H	2H	18.31	19.72	18.71	20.07	20.44	18.74	20.14	19.13	20.49	20.87
	3H	20.31	21.49	20.72	21.89	22.29	20.81	21.99	21.22	22.39	22.79
	4H	21.07	22.13	21.50	22.55	22.98	21.60	22.67	22.04	23.09	23.52
	6H	21.59	22.53	22.05	22.97	23.42	22.21	23.14	22.66	23.58	24.04
	8H	21.73	22.61	22.19	23.05	23.51	22.40	23.27	22.86	23.71	24.18
	12H	21.81	22.60	22.29	23.07	23.54	22.52	23.30	23.00	23.78	24.25
8H	4H	21.40	22.28	21.86	22.72	23.18	21.88	22.75	22.34	23.20	23.66
	6H	22.04	22.77	22.54	23.26	23.73	22.59	23.32	23.09	23.81	24.28
	8H	22.24	22.89	22.75	23.40	23.89	22.85	23.50	23.36	24.01	24.49
	12H	22.37	22.95	22.88	23.44	24.00	23.03	23.61	23.54	24.10	24.66
12H	4H	21.44	22.23	21.92	22.70	23.17	21.90	22.69	22.38	23.16	23.63
	6H	22.10	22.75	22.61	23.26	23.74	22.63	23.28	23.14	23.79	24.27
	8H	22.35	22.93	22.86	23.42	23.98	22.94	23.51	23.44	24.00	24.56

END OF REPORT