

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: P1584680

Luminaire Tested: 14CZSP-A-54HE-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584680
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-L850-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 5000 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

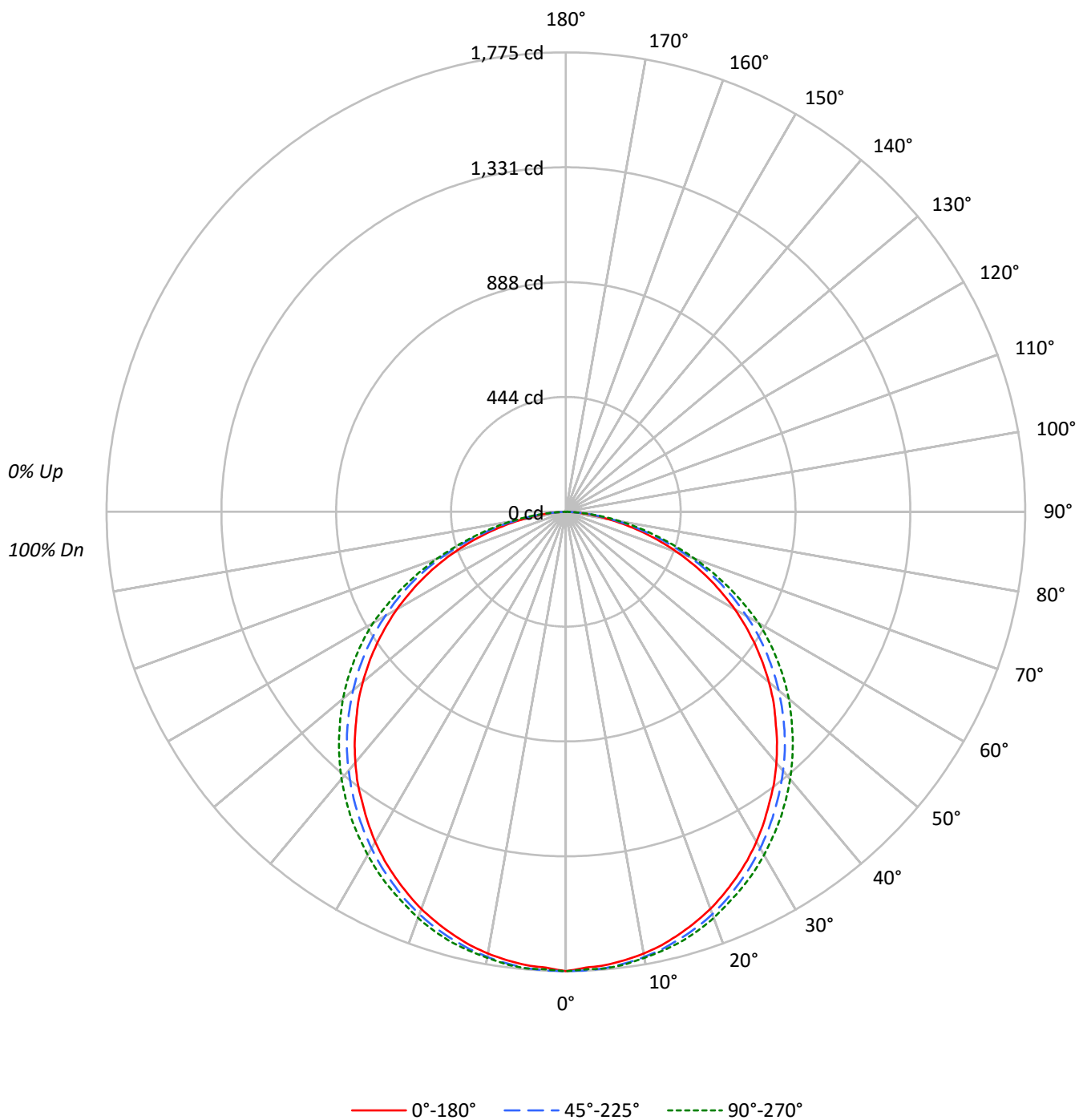
Lumens per Lamp: N/A
Luminaire Lumens: 5132.0 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1584680

CATALOG NUMBER: 14CZSP-A-54HE-L850-S

Luminous Intensity Polar Plot



TEST NUMBER: P1584680

CATALOG NUMBER: 14CZSP-A-54HE-L850-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°	5982	5982	5982
5°	5948	5987	5992
10°	5932	5976	5988
15°	5898	5958	6000
20°	5856	5935	5989
25°	5797	5889	5971
30°	5731	5843	5958
35°	5640	5792	5947
40°	5566	5745	5931
45°	5461	5695	5907
50°	5370	5627	5896
55°	5241	5547	5858
60°	5081	5437	5798
65°	4854	5288	5559
70°	4525	4994	5217
75°	4042	4505	4760
80°	3312	3796	4162
85°	2219	2776	3097

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5907 cd/sqm

TEST NUMBER: P1584680

CATALOG NUMBER: 14CZSP-A-54HE-L850-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.1	3.3
10°-20°	482.0	9.4
20°-30°	729.8	14.2
30°-40°	881.3	17.2
40°-50°	921.1	17.9
50°-60°	844.0	16.4
60°-70°	651.5	12.7
70°-80°	366.5	7.1
80°-90°	87.7	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°	1379.9	26.9
0°-40°	2261.3	44.1
0°-60°	4026.3	78.5
0°-90°	5132.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5132.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1775	1775	1775	1775	1775	
5°	1758	1771	1770	1771	1771	167
15°	1691	1704	1708	1715	1720	477
25°	1559	1573	1584	1592	1606	719
35°	1371	1388	1408	1427	1446	859
45°	1146	1169	1195	1219	1240	886
55°	892	916	944	974	997	797
65°	609	635	663	690	697	602
75°	310	339	346	360	366	329
85°	57	66	72	79	80	74
90°	0	0	0	0	0	

TEST NUMBER: P1584680

CATALOG NUMBER: 14CZSP-A-54HE-L850-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1775.2	1775.2	1775.2	1775.2	1775.2
2.5°	1763.1	1776.7	1773.7	1778.2	1769.9
5°	1758.5	1771.4	1769.9	1771.4	1771.4
7.5°	1747.2	1760.8	1760.1	1762.3	1763.8
10°	1733.6	1746.5	1746.5	1748.7	1750.2
12.5°	1714.7	1728.3	1729.8	1733.6	1736.6
15°	1690.6	1704.2	1707.9	1714.7	1720.0
17.5°	1663.4	1677.7	1683.8	1690.6	1697.4
20°	1633.2	1646.0	1655.1	1660.3	1670.2
22.5°	1597.6	1612.0	1621.8	1627.1	1637.7
25°	1559.1	1572.7	1584.0	1592.4	1606.0
27.5°	1518.3	1531.9	1545.5	1555.3	1571.2
30°	1473.0	1487.4	1501.7	1516.8	1531.2
32.5°	1423.9	1440.5	1456.4	1473.0	1488.9
35°	1371.0	1388.4	1408.0	1426.9	1445.8
37.5°	1321.9	1337.8	1358.2	1378.6	1397.5
40°	1265.3	1282.6	1306.1	1328.7	1348.4
42.5°	1207.9	1226.8	1252.4	1274.3	1295.5
45°	1145.9	1168.6	1195.0	1219.2	1239.6
47.5°	1088.5	1108.2	1134.6	1161.0	1182.2
50°	1024.3	1046.2	1073.4	1101.4	1124.8
52.5°	959.3	982.0	1010.0	1037.9	1062.1
55°	892.1	915.5	944.2	973.7	997.1
57.5°	823.4	848.3	877.8	907.2	930.6
60°	753.9	778.8	806.8	839.2	860.4
62.5°	681.4	709.3	735.7	766.0	778.8
65°	608.8	635.3	663.2	689.7	697.2
67.5°	534.8	562.0	586.9	604.3	614.1
70°	459.3	488.7	506.9	523.5	529.5
72.5°	384.5	414.0	424.5	440.4	446.4
75°	310.5	339.2	346.0	360.3	365.6
77.5°	238.7	265.1	267.4	284.0	288.6
80°	170.7	191.9	195.6	211.5	214.5
82.5°	109.5	124.6	129.9	143.5	148.1
85°	57.4	65.7	71.8	78.6	80.1
87.5°	18.9	23.4	19.6	20.4	18.9
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584680

CATALOG NUMBER: 14CZSP-A-54HE-L850-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	17.93	19.58	18.29	19.89	20.21	18.47	20.12	18.83	20.43	20.75
	3H	19.70	21.20	20.08	21.52	21.88	20.32	21.82	20.70	22.14	22.50
	4H	20.33	21.74	20.73	22.08	22.46	20.99	22.40	21.39	22.75	23.12
	6H	20.74	22.04	21.15	22.41	22.80	21.47	22.77	21.88	23.14	23.53
	8H	20.84	22.09	21.26	22.48	22.87	21.61	22.86	22.04	23.25	23.65
	12H	20.89	22.09	21.32	22.47	22.90	21.70	22.89	22.13	23.27	23.70
4H	2H	18.65	20.06	19.05	20.41	20.78	19.07	20.48	19.47	20.83	21.20
	3H	20.65	21.83	21.05	22.22	22.62	21.14	22.33	21.55	22.72	23.12
	4H	21.40	22.47	21.83	22.88	23.32	21.94	23.01	22.37	23.42	23.86
	6H	21.93	22.86	22.38	23.30	23.76	22.54	23.48	23.00	23.92	24.37
	8H	22.07	22.94	22.53	23.39	23.85	22.73	23.61	23.19	24.05	24.52
	12H	22.15	22.93	22.63	23.41	23.88	22.86	23.64	23.34	24.12	24.59
8H	4H	21.74	22.61	22.20	23.06	23.52	22.22	23.09	22.68	23.53	24.00
	6H	22.38	23.11	22.87	23.59	24.07	22.93	23.66	23.42	24.14	24.62
	8H	22.58	23.23	23.09	23.74	24.22	23.19	23.84	23.70	24.34	24.83
	12H	22.71	23.28	23.22	23.77	24.33	23.37	23.94	23.87	24.43	24.99
12H	4H	21.78	22.56	22.26	23.04	23.51	22.24	23.03	22.72	23.50	23.97
	6H	22.44	23.09	22.94	23.59	24.08	22.97	23.62	23.47	24.12	24.61
	8H	22.69	23.26	23.19	23.75	24.31	23.27	23.85	23.78	24.34	24.90