

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: P1584385

Luminaire Tested: 14CZSP-54HE-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2602-698-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-54HE-L935
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

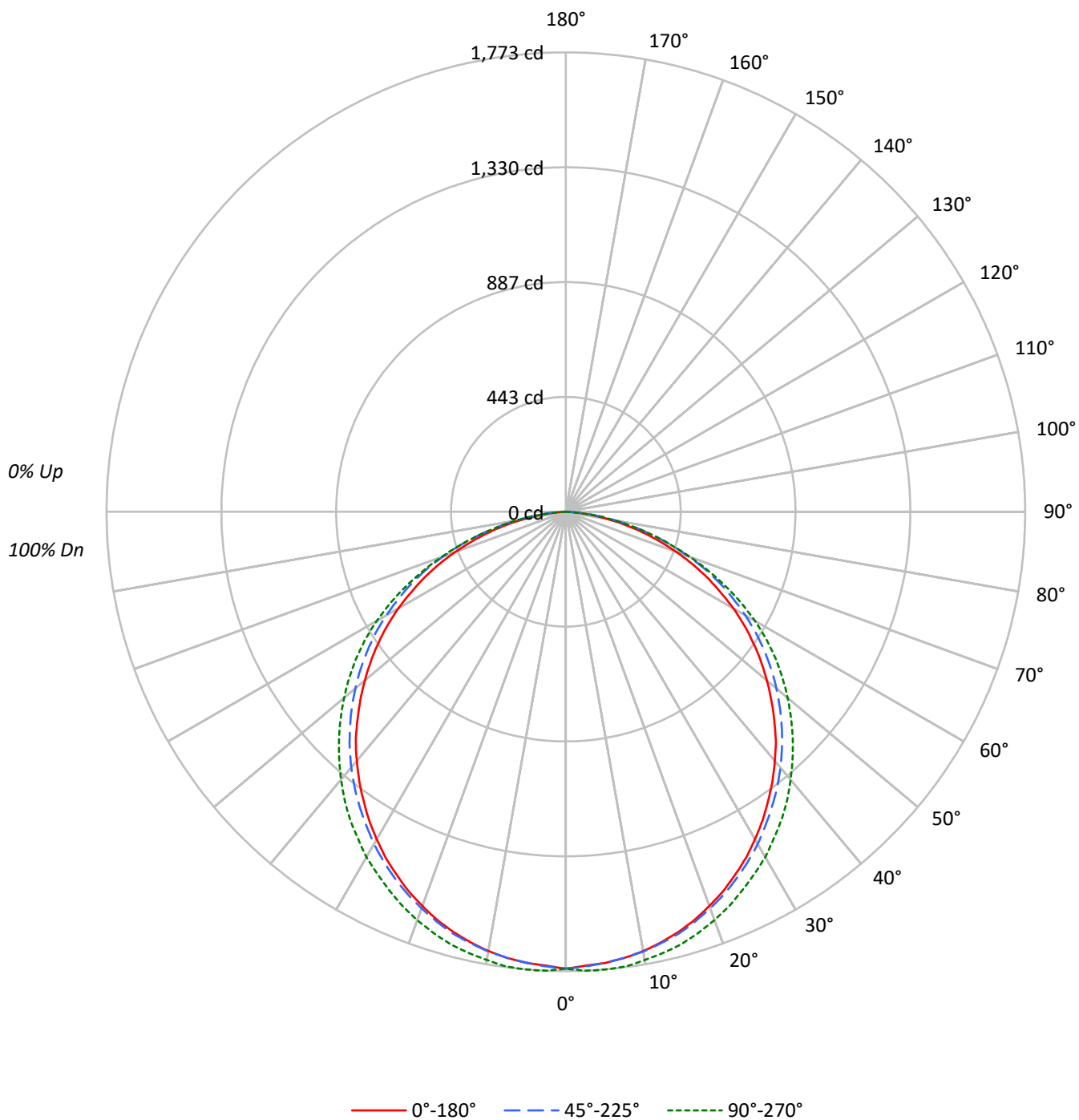
Lumens per Lamp: N/A
Luminaire Lumens: 5079.0 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

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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
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		94	91	88		90
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	73	61	53	47	59	52	46		57	51	46		55
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46
8	60	47	38	32	59	46	38	32	44	37	32		43	36	32		42
9	56	43	34	29	55	42	34	29	41	34	29		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°	5941	5941	5941
5°	5914	5908	5998
10°	5891	5897	6010
15°	5856	5879	6023
20°	5805	5840	6013
25°	5747	5803	5994
30°	5678	5762	5988
35°	5600	5710	5969
40°	5521	5667	5937
45°	5420	5617	5902
50°	5309	5561	5858
55°	5189	5491	5804
60°	5035	5393	5684
65°	4805	5255	5427
70°	4482	4957	5038
75°	3999	4475	4518
80°	3254	3770	3737
85°	2119	2633	2053

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5902 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.0	3.3
10°-20°	478.5	9.4
20°-30°	724.8	14.3
30°-40°	875.5	17.2
40°-50°	914.6	18.0
50°-60°	837.5	16.5
60°-70°	643.5	12.7
70°-80°	358.3	7.1
80°-90°	79.4	1.6
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°	1370.3	27.0
0°-40°	2245.8	44.2
0°-60°	3997.9	78.7
0°-90°	5079.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5079.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1763	1763	1763	1763	1763	
5°	1748	1766	1747	1757	1773	166
15°	1679	1695	1685	1702	1727	474
25°	1546	1564	1561	1584	1612	713
35°	1361	1381	1388	1421	1451	852
45°	1137	1162	1179	1214	1239	878
55°	883	912	935	968	988	789
65°	603	634	659	672	681	596
75°	307	339	344	344	347	325
85°	55	65	68	56	53	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1763.2	1763.2	1763.2	1763.2	1763.2
2.5°	1753.3	1769.9	1756.6	1761.6	1773.2
5°	1748.3	1766.5	1746.6	1756.6	1773.2
7.5°	1736.7	1753.3	1736.7	1748.3	1769.9
10°	1721.7	1740.0	1723.4	1735.0	1756.6
12.5°	1701.8	1716.7	1705.1	1721.7	1743.3
15°	1678.6	1695.2	1685.2	1701.8	1726.7
17.5°	1652.0	1666.9	1658.6	1680.2	1703.5
20°	1618.8	1635.4	1628.7	1650.3	1676.9
22.5°	1585.6	1602.2	1597.2	1618.8	1647.0
25°	1545.7	1564.0	1560.7	1583.9	1612.1
27.5°	1505.9	1524.1	1522.5	1549.1	1575.6
30°	1459.4	1477.7	1481.0	1509.2	1539.1
32.5°	1412.9	1432.8	1434.5	1466.0	1494.3
35°	1361.4	1381.4	1388.0	1421.2	1451.1
37.5°	1310.0	1329.9	1339.9	1371.4	1402.9
40°	1255.2	1276.8	1288.4	1321.6	1349.8
42.5°	1200.4	1222.0	1235.3	1268.5	1295.0
45°	1137.3	1162.2	1178.8	1213.7	1238.6
47.5°	1075.9	1102.4	1120.7	1153.9	1178.8
50°	1012.8	1041.0	1060.9	1094.1	1117.4
52.5°	949.7	979.6	999.5	1031.0	1054.3
55°	883.3	911.5	934.7	967.9	987.9
57.5°	816.9	845.1	870.0	899.9	918.1
60°	747.1	777.0	800.3	830.1	843.4
62.5°	674.1	705.6	728.9	752.1	763.7
65°	602.7	634.2	659.1	672.4	680.7
67.5°	529.6	561.2	584.4	591.1	596.0
70°	454.9	486.5	503.1	506.4	511.4
72.5°	380.2	411.8	425.0	425.0	426.7
75°	307.2	338.7	343.7	343.7	347.0
77.5°	235.8	264.0	267.3	267.3	267.3
80°	167.7	189.3	194.3	194.3	192.6
82.5°	106.3	121.2	129.5	122.9	119.5
85°	54.8	64.8	68.1	56.4	53.1
87.5°	16.6	19.9	16.6	10.0	8.3
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	17.94	19.58	18.30	19.90	20.21	18.44	20.09	18.81	20.40	20.72
	3H	19.71	21.20	20.08	21.52	21.88	20.24	21.73	20.62	22.06	22.42
	4H	20.33	21.73	20.73	22.08	22.46	20.87	22.27	21.27	22.62	23.00
	6H	20.73	22.03	21.14	22.40	22.79	21.29	22.59	21.70	22.96	23.35
	8H	20.83	22.07	21.26	22.46	22.86	21.40	22.64	21.82	23.03	23.43
	12H	20.88	22.07	21.31	22.45	22.88	21.44	22.63	21.86	23.01	23.44
4H	2H	18.66	20.06	19.05	20.41	20.78	19.05	20.46	19.45	20.80	21.18
	3H	20.65	21.83	21.06	22.22	22.62	21.06	22.24	21.47	22.64	23.04
	4H	21.41	22.47	21.84	22.88	23.32	21.82	22.88	22.25	23.29	23.73
	6H	21.93	22.86	22.38	23.30	23.75	22.36	23.29	22.81	23.73	24.18
	8H	22.06	22.93	22.52	23.37	23.84	22.50	23.37	22.96	23.81	24.27
	12H	22.14	22.92	22.61	23.39	23.86	22.56	23.34	23.04	23.82	24.29
8H	4H	21.74	22.61	22.20	23.05	23.52	22.10	22.97	22.56	23.41	23.88
	6H	22.37	23.10	22.87	23.58	24.06	22.74	23.47	23.24	23.95	24.43
	8H	22.57	23.21	23.07	23.72	24.20	22.94	23.59	23.45	24.09	24.58
	12H	22.69	23.26	23.19	23.75	24.31	23.04	23.62	23.55	24.11	24.67
12H	4H	21.77	22.55	22.25	23.03	23.50	22.13	22.91	22.61	23.38	23.85
	6H	22.42	23.07	22.93	23.58	24.06	22.78	23.43	23.29	23.94	24.42
	8H	22.67	23.24	23.17	23.73	24.29	23.03	23.60	23.53	24.09	24.65