

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: P1584689

Luminaire Tested: 14CZSP-A-54HE-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584689
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-A-54HE-L945
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 5000 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

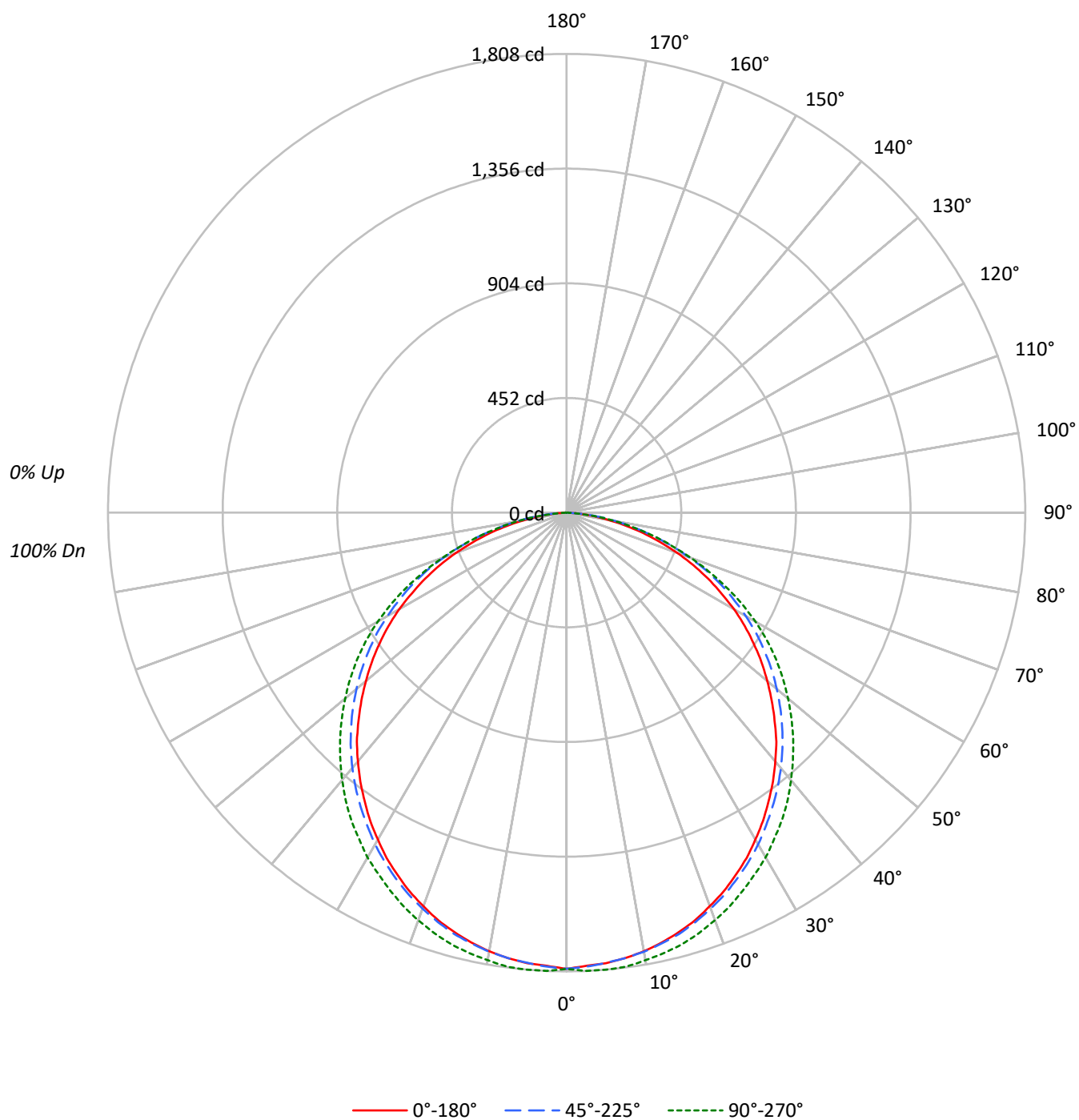
Lumens per Lamp: N/A
Luminaire Lumens: 5179.0 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	6058	6058	6058
5°	6030	6024	6116
10°	6007	6013	6129
15°	5971	5995	6142
20°	5919	5955	6131
25°	5860	5917	6112
30°	5790	5876	6106
35°	5710	5822	6087
40°	5630	5779	6054
45°	5526	5728	6019
50°	5414	5671	5973
55°	5291	5599	5918
60°	5134	5499	5796
65°	4900	5359	5534
70°	4570	5054	5137
75°	4078	4562	4606
80°	3318	3844	3811
85°	2161	2683	2095

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6019 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.3	3.3
10°-20°	487.9	9.4
20°-30°	739.0	14.3
30°-40°	892.7	17.2
40°-50°	932.6	18.0
50°-60°	854.0	16.5
60°-70°	656.2	12.7
70°-80°	365.4	7.1
80°-90°	80.9	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°	1397.3	27.0
0°-40°	2290.0	44.2
0°-60°	4076.6	78.7
0°-90°	5179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5179.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1798	1798	1798	1798	1798	
5°	1783	1801	1781	1791	1808	169
15°	1712	1728	1718	1735	1761	483
25°	1576	1595	1591	1615	1644	727
35°	1388	1409	1415	1449	1480	869
45°	1160	1185	1202	1238	1263	895
55°	901	929	953	987	1007	805
65°	615	647	672	686	694	607
75°	313	345	350	350	354	332
85°	56	66	69	58	54	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1797.9	1797.9	1797.9	1797.9	1797.9
2.5°	1787.8	1804.7	1791.2	1796.3	1808.1
5°	1782.7	1801.3	1781.0	1791.2	1808.1
7.5°	1770.9	1787.8	1770.9	1782.7	1804.7
10°	1755.6	1774.2	1757.3	1769.2	1791.2
12.5°	1735.3	1750.5	1738.7	1755.6	1777.6
15°	1711.6	1728.5	1718.4	1735.3	1760.7
17.5°	1684.5	1699.8	1691.3	1713.3	1737.0
20°	1650.7	1667.6	1660.8	1682.8	1709.9
22.5°	1616.8	1633.7	1628.6	1650.7	1679.4
25°	1576.2	1594.8	1591.4	1615.1	1643.9
27.5°	1535.5	1554.2	1552.5	1579.5	1606.6
30°	1488.1	1506.8	1510.1	1538.9	1569.4
32.5°	1440.7	1461.0	1462.7	1494.9	1523.7
35°	1388.2	1408.6	1415.3	1449.2	1479.7
37.5°	1335.8	1356.1	1366.2	1398.4	1430.6
40°	1279.9	1301.9	1313.8	1347.6	1376.4
42.5°	1224.0	1246.0	1259.6	1293.4	1320.5
45°	1159.7	1185.1	1202.0	1237.6	1263.0
47.5°	1097.1	1124.1	1142.8	1176.6	1202.0
50°	1032.7	1061.5	1081.8	1115.7	1139.4
52.5°	968.4	998.9	1019.2	1051.3	1075.0
55°	900.7	929.4	953.1	987.0	1007.3
57.5°	832.9	861.7	887.1	917.6	936.2
60°	761.8	792.3	816.0	846.5	860.0
62.5°	687.3	719.5	743.2	766.9	778.8
65°	614.6	646.7	672.1	685.7	694.1
67.5°	540.1	572.2	595.9	602.7	607.8
70°	463.9	496.0	513.0	516.4	521.4
72.5°	387.7	419.9	433.4	433.4	435.1
75°	313.2	345.4	350.4	350.4	353.8
77.5°	240.4	269.2	272.6	272.6	272.6
80°	171.0	193.0	198.1	198.1	196.4
82.5°	108.4	123.6	132.1	125.3	121.9
85°	55.9	66.0	69.4	57.6	54.2
87.5°	16.9	20.3	16.9	10.2	8.5
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	18.00	19.65	18.37	19.96	20.28	18.51	20.16	18.87	20.47	20.78
	3H	19.77	21.26	20.15	21.59	21.95	20.31	21.80	20.68	22.12	22.48
	4H	20.40	21.80	20.80	22.15	22.52	20.94	22.34	21.34	22.69	23.06
	6H	20.80	22.10	21.21	22.47	22.86	21.36	22.66	21.77	23.02	23.42
	8H	20.90	22.14	21.32	22.53	22.93	21.46	22.71	21.89	23.10	23.49
	12H	20.94	22.14	21.37	22.52	22.95	21.50	22.70	21.93	23.08	23.51
4H	2H	18.72	20.13	19.12	20.48	20.85	19.12	20.52	19.52	20.87	21.25
	3H	20.72	21.89	21.13	22.29	22.69	21.13	22.31	21.54	22.71	23.11
	4H	21.47	22.54	21.91	22.95	23.39	21.88	22.95	22.32	23.36	23.80
	6H	22.00	22.93	22.45	23.37	23.82	22.42	23.35	22.88	23.79	24.25
	8H	22.13	23.00	22.59	23.44	23.91	22.56	23.43	23.02	23.88	24.34
	12H	22.20	22.98	22.68	23.46	23.93	22.63	23.41	23.11	23.89	24.36
8H	4H	21.81	22.68	22.27	23.12	23.58	22.17	23.04	22.63	23.48	23.95
	6H	22.44	23.16	22.93	23.65	24.13	22.81	23.53	23.30	24.02	24.50
	8H	22.63	23.28	23.14	23.79	24.27	23.01	23.65	23.51	24.16	24.64
	12H	22.76	23.33	23.26	23.82	24.38	23.11	23.68	23.62	24.17	24.73
12H	4H	21.84	22.62	22.32	23.10	23.56	22.19	22.98	22.67	23.45	23.92
	6H	22.49	23.14	23.00	23.65	24.13	22.85	23.50	23.36	24.01	24.49
	8H	22.73	23.31	23.24	23.80	24.36	23.09	23.67	23.60	24.16	24.72