

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: P1584468

Luminaire Tested: 14CZSP-70-L945-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584468
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-70-L945-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 6700 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

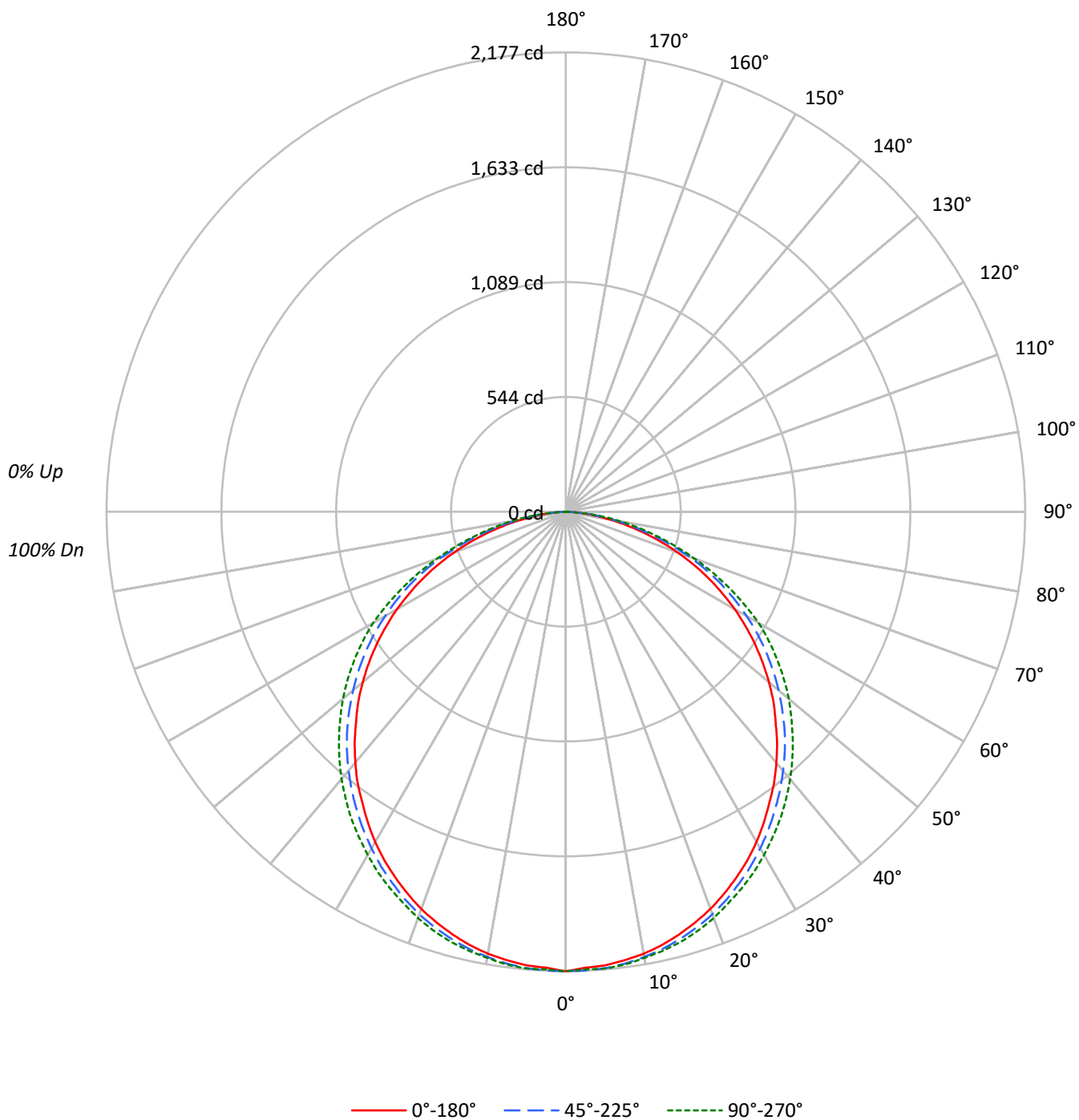
Lumens per Lamp: N/A
Luminaire Lumens: 6295.0 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 53.4
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: P1584468

CATALOG NUMBER: 14CZSP-70-L945-S

Luminous Intensity Polar Plot



TEST NUMBER: P1584468

CATALOG NUMBER: 14CZSP-70-L945-S

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69	65	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7337	7337	7337
5°	7296	7343	7349
10°	7276	7330	7346
15°	7234	7308	7360
20°	7183	7280	7346
25°	7110	7224	7324
30°	7030	7167	7308
35°	6918	7104	7295
40°	6827	7047	7275
45°	6698	6985	7246
50°	6586	6902	7233
55°	6429	6804	7185
60°	6232	6669	7113
65°	5954	6486	6819
70°	5551	6125	6399
75°	4958	5525	5839
80°	4063	4657	5105
85°	2722	3402	3797

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7246 cd/sqm

TEST NUMBER: P1584468

CATALOG NUMBER: 14CZSP-70-L945-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.2	3.3
10°-20°	591.2	9.4
20°-30°	895.2	14.2
30°-40°	1081.1	17.2
40°-50°	1129.8	17.9
50°-60°	1035.3	16.4
60°-70°	799.2	12.7
70°-80°	449.5	7.1
80°-90°	107.5	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°	1692.6	26.9
0°-40°	2773.7	44.1
0°-60°	4938.8	78.5
0°-90°	6295.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6295.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2177	2177	2177	2177	2177	
5°	2157	2173	2171	2173	2173	205
15°	2074	2090	2095	2103	2110	585
25°	1912	1929	1943	1953	1970	881
35°	1682	1703	1727	1750	1774	1054
45°	1406	1433	1466	1496	1520	1086
55°	1094	1123	1158	1194	1223	978
65°	747	779	814	846	855	738
75°	381	416	424	442	448	404
85°	70	81	88	96	98	90
90°	0	0	0	0	0	

TEST NUMBER: P1584468

CATALOG NUMBER: 14CZSP-70-L945-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2177.4	2177.4	2177.4	2177.4	2177.4
2.5°	2162.6	2179.3	2175.6	2181.2	2171.0
5°	2157.1	2172.8	2171.0	2172.8	2172.8
7.5°	2143.2	2159.8	2158.9	2161.7	2163.5
10°	2126.5	2142.2	2142.2	2145.0	2146.9
12.5°	2103.3	2120.0	2121.9	2126.5	2130.2
15°	2073.7	2090.3	2095.0	2103.3	2109.8
17.5°	2040.3	2057.9	2065.3	2073.7	2082.0
20°	2003.3	2019.0	2030.1	2036.6	2048.7
22.5°	1959.7	1977.3	1989.4	1995.8	2008.8
25°	1912.4	1929.1	1943.0	1953.2	1969.9
27.5°	1862.4	1879.1	1895.8	1907.8	1927.3
30°	1806.8	1824.4	1842.0	1860.6	1878.2
32.5°	1746.6	1767.0	1786.4	1806.8	1826.3
35°	1681.7	1703.0	1727.1	1750.3	1773.5
37.5°	1621.5	1641.0	1666.0	1691.0	1714.2
40°	1552.0	1573.3	1602.0	1629.8	1653.9
42.5°	1481.6	1504.8	1536.3	1563.1	1589.1
45°	1405.6	1433.4	1465.8	1495.5	1520.5
47.5°	1335.2	1359.3	1391.7	1424.1	1450.1
50°	1256.4	1283.3	1316.7	1350.9	1379.7
52.5°	1176.7	1204.5	1238.8	1273.1	1302.8
55°	1094.3	1123.0	1158.2	1194.4	1223.1
57.5°	1010.0	1040.5	1076.7	1112.8	1141.5
60°	924.7	955.3	989.6	1029.4	1055.4
62.5°	835.8	870.1	902.5	939.5	955.3
65°	746.8	779.2	813.5	846.0	855.2
67.5°	656.0	689.4	719.9	741.3	753.3
70°	563.4	599.5	621.7	642.1	649.5
72.5°	471.6	507.8	520.7	540.2	547.6
75°	380.8	416.0	424.4	442.0	448.5
77.5°	292.8	325.2	328.0	348.4	354.0
80°	209.4	235.3	240.0	259.4	263.1
82.5°	134.4	152.9	159.4	176.0	181.6
85°	70.4	80.6	88.0	96.4	98.2
87.5°	23.2	28.7	24.1	25.0	23.2
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584468

CATALOG NUMBER: 14CZSP-70-L945-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	18.64	20.29	19.00	20.60	20.91	19.18	20.83	19.54	21.14	21.45
	3H	20.41	21.91	20.79	22.23	22.59	21.03	22.53	21.41	22.85	23.21
	4H	21.04	22.45	21.44	22.79	23.17	21.70	23.11	22.10	23.46	23.83
	6H	21.45	22.75	21.86	23.12	23.51	22.18	23.48	22.59	23.85	24.24
	8H	21.55	22.80	21.97	23.19	23.58	22.32	23.57	22.75	23.96	24.36
	12H	21.60	22.79	22.03	23.18	23.60	22.41	23.60	22.84	23.98	24.41
4H	2H	19.36	20.77	19.76	21.12	21.49	19.78	21.19	20.18	21.54	21.91
	3H	21.36	22.54	21.76	22.93	23.33	21.85	23.04	22.26	23.43	23.83
	4H	22.11	23.18	22.54	23.59	24.03	22.65	23.72	23.08	24.13	24.57
	6H	22.64	23.57	23.09	24.01	24.47	23.25	24.19	23.71	24.63	25.08
	8H	22.78	23.65	23.24	24.10	24.56	23.44	24.32	23.90	24.76	25.22
	12H	22.86	23.64	23.34	24.12	24.59	23.57	24.35	24.05	24.83	25.29
8H	4H	22.45	23.32	22.91	23.77	24.23	22.93	23.80	23.39	24.24	24.71
	6H	23.09	23.82	23.58	24.30	24.78	23.64	24.37	24.13	24.85	25.33
	8H	23.29	23.94	23.80	24.45	24.93	23.90	24.55	24.41	25.05	25.54
	12H	23.42	23.99	23.93	24.48	25.04	24.08	24.65	24.58	25.14	25.70
12H	4H	22.49	23.27	22.97	23.75	24.22	22.95	23.74	23.43	24.21	24.68
	6H	23.14	23.80	23.65	24.30	24.79	23.68	24.33	24.18	24.83	25.32
	8H	23.40	23.97	23.90	24.46	25.02	23.98	24.56	24.49	25.05	25.61