

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: P1584484

Luminaire Tested: 14CZSP-70VHE-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584484
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-70VHE-L935-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 7200 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

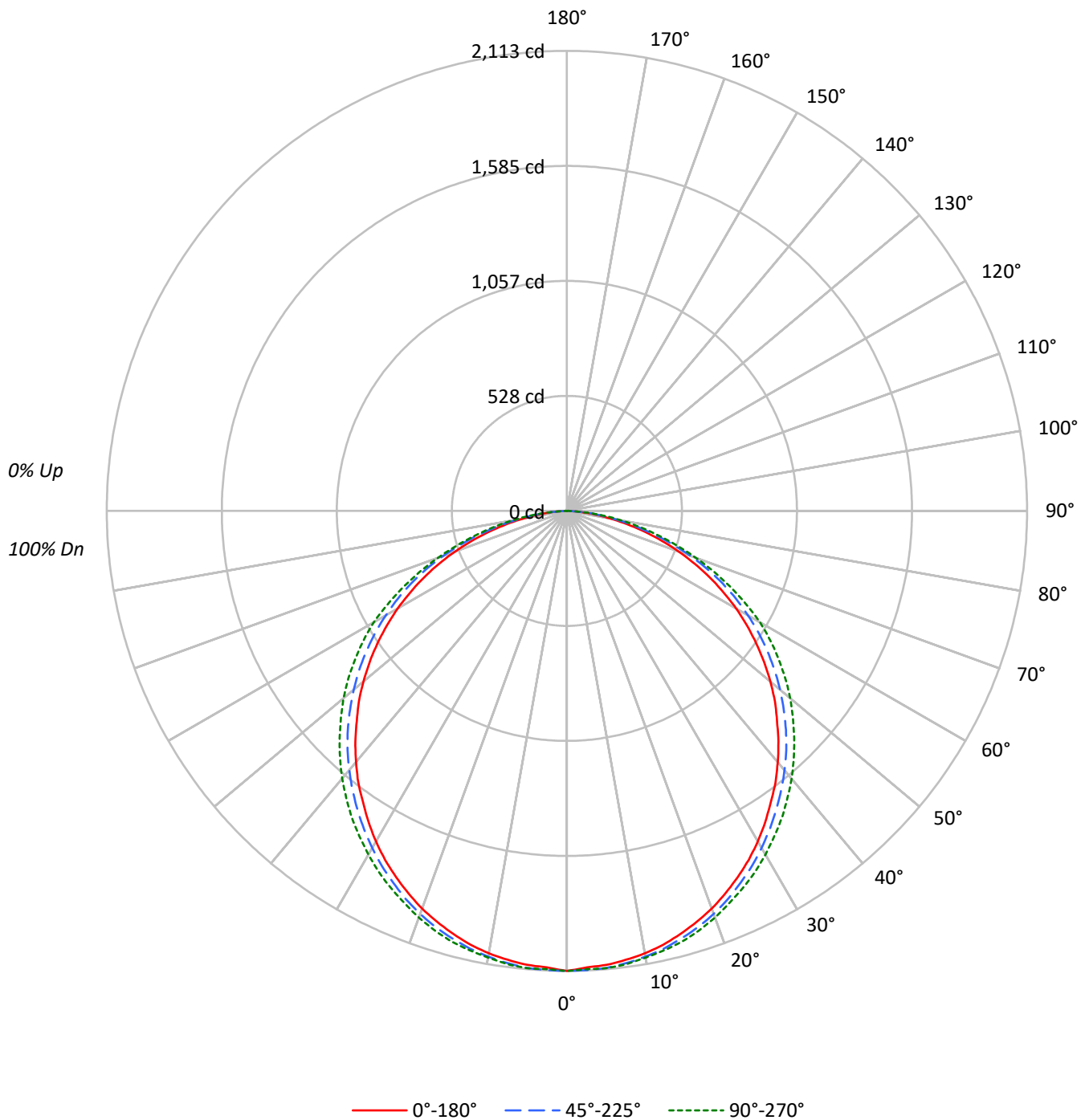
Lumens per Lamp: N/A
Luminaire Lumens: 6109.0 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 51.9
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		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°	7120	7120	7120
5°	7080	7126	7132
10°	7061	7113	7128
15°	7020	7092	7143
20°	6971	7064	7129
25°	6900	7011	7108
30°	6822	6955	7092
35°	6713	6895	7080
40°	6625	6839	7060
45°	6500	6779	7032
50°	6392	6698	7019
55°	6238	6603	6973
60°	6048	6472	6902
65°	5779	6295	6618
70°	5386	5945	6210
75°	4812	5361	5666
80°	3943	4519	4956
85°	2641	3302	3684

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7032 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.1	3.3
10°-20°	573.7	9.4
20°-30°	868.8	14.2
30°-40°	1049.1	17.2
40°-50°	1096.4	17.9
50°-60°	1004.7	16.4
60°-70°	775.5	12.7
70°-80°	436.2	7.1
80°-90°	104.4	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°	1642.6	26.9
0°-40°	2691.8	44.1
0°-60°	4792.8	78.5
0°-90°	6109.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6109.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2113	2113	2113	2113	2113	
5°	2093	2109	2107	2109	2109	199
15°	2012	2029	2033	2041	2048	568
25°	1856	1872	1886	1896	1912	855
35°	1632	1653	1676	1699	1721	1023
45°	1364	1391	1422	1451	1476	1054
55°	1062	1090	1124	1159	1187	949
65°	725	756	790	821	830	716
75°	370	404	412	429	435	392
85°	68	78	85	94	95	88
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2113.1	2113.1	2113.1	2113.1	2113.1
2.5°	2098.7	2114.9	2111.3	2116.7	2106.8
5°	2093.3	2108.6	2106.8	2108.6	2108.6
7.5°	2079.8	2096.0	2095.1	2097.8	2099.6
10°	2063.7	2078.9	2078.9	2081.6	2083.4
12.5°	2041.2	2057.4	2059.2	2063.7	2067.2
15°	2012.4	2028.6	2033.1	2041.2	2047.5
17.5°	1980.0	1997.1	2004.3	2012.4	2020.5
20°	1944.1	1959.3	1970.1	1976.4	1988.1
22.5°	1901.8	1918.9	1930.6	1936.9	1949.5
25°	1855.9	1872.1	1885.6	1895.5	1911.7
27.5°	1807.4	1823.6	1839.8	1851.4	1870.3
30°	1753.4	1770.5	1787.6	1805.6	1822.7
32.5°	1695.0	1714.8	1733.6	1753.4	1772.3
35°	1632.0	1652.7	1676.1	1698.6	1721.1
37.5°	1573.6	1592.5	1616.8	1641.0	1663.5
40°	1506.2	1526.8	1554.7	1581.7	1605.1
42.5°	1437.8	1460.3	1490.9	1516.9	1542.1
45°	1364.1	1391.1	1422.5	1451.3	1475.6
47.5°	1295.7	1319.1	1350.6	1382.1	1407.2
50°	1219.3	1245.4	1277.8	1311.0	1338.9
52.5°	1142.0	1169.0	1202.2	1235.5	1264.3
55°	1061.9	1089.8	1124.0	1159.1	1186.9
57.5°	980.1	1009.8	1044.9	1079.9	1107.8
60°	897.4	927.1	960.3	999.0	1024.2
62.5°	811.1	844.3	875.8	911.8	927.1
65°	724.8	756.2	789.5	821.0	830.0
67.5°	636.6	669.0	698.7	719.4	731.0
70°	546.7	581.8	603.4	623.1	630.3
72.5°	457.7	492.8	505.3	524.2	531.4
75°	369.6	403.7	411.8	428.9	435.2
77.5°	284.1	315.6	318.3	338.1	343.5
80°	203.2	228.4	232.9	251.8	255.4
82.5°	130.4	148.4	154.7	170.8	176.2
85°	68.3	78.2	85.4	93.5	95.3
87.5°	22.5	27.9	23.4	24.3	22.5
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	18.53	20.18	18.90	20.50	20.81	19.07	20.72	19.44	21.04	21.35
	3H	20.31	21.80	20.68	22.13	22.49	20.93	22.42	21.31	22.75	23.11
	4H	20.93	22.34	21.33	22.69	23.06	21.60	23.00	22.00	23.35	23.73
	6H	21.34	22.65	21.75	23.01	23.40	22.07	23.38	22.48	23.74	24.13
	8H	21.45	22.69	21.87	23.08	23.48	22.22	23.47	22.64	23.86	24.25
	12H	21.50	22.69	21.93	23.07	23.50	22.30	23.50	22.73	23.88	24.31
4H	2H	19.26	20.66	19.65	21.01	21.39	19.68	21.09	20.08	21.43	21.81
	3H	21.25	22.43	21.66	22.83	23.23	21.75	22.93	22.16	23.33	23.73
	4H	22.01	23.08	22.44	23.49	23.93	22.55	23.61	22.98	24.03	24.46
	6H	22.54	23.47	22.99	23.91	24.36	23.15	24.08	23.60	24.52	24.98
	8H	22.68	23.55	23.14	23.99	24.46	23.34	24.21	23.80	24.66	25.12
	12H	22.75	23.54	23.23	24.01	24.48	23.46	24.25	23.94	24.72	25.19
8H	4H	22.35	23.22	22.81	23.66	24.13	22.82	23.70	23.28	24.14	24.60
	6H	22.99	23.71	23.48	24.20	24.67	23.54	24.26	24.03	24.75	25.22
	8H	23.19	23.84	23.69	24.34	24.83	23.79	24.44	24.30	24.95	25.43
	12H	23.32	23.89	23.82	24.38	24.94	23.97	24.55	24.48	25.04	25.60
12H	4H	22.38	23.17	22.86	23.64	24.11	22.85	23.63	23.33	24.11	24.58
	6H	23.04	23.69	23.55	24.20	24.68	23.57	24.22	24.08	24.73	25.22
	8H	23.29	23.87	23.80	24.36	24.92	23.88	24.45	24.39	24.94	25.50