

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: P1584782

Luminaire Tested: 14CZSP-A-70VHE-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584782
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-70VHE-L930-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 7200 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

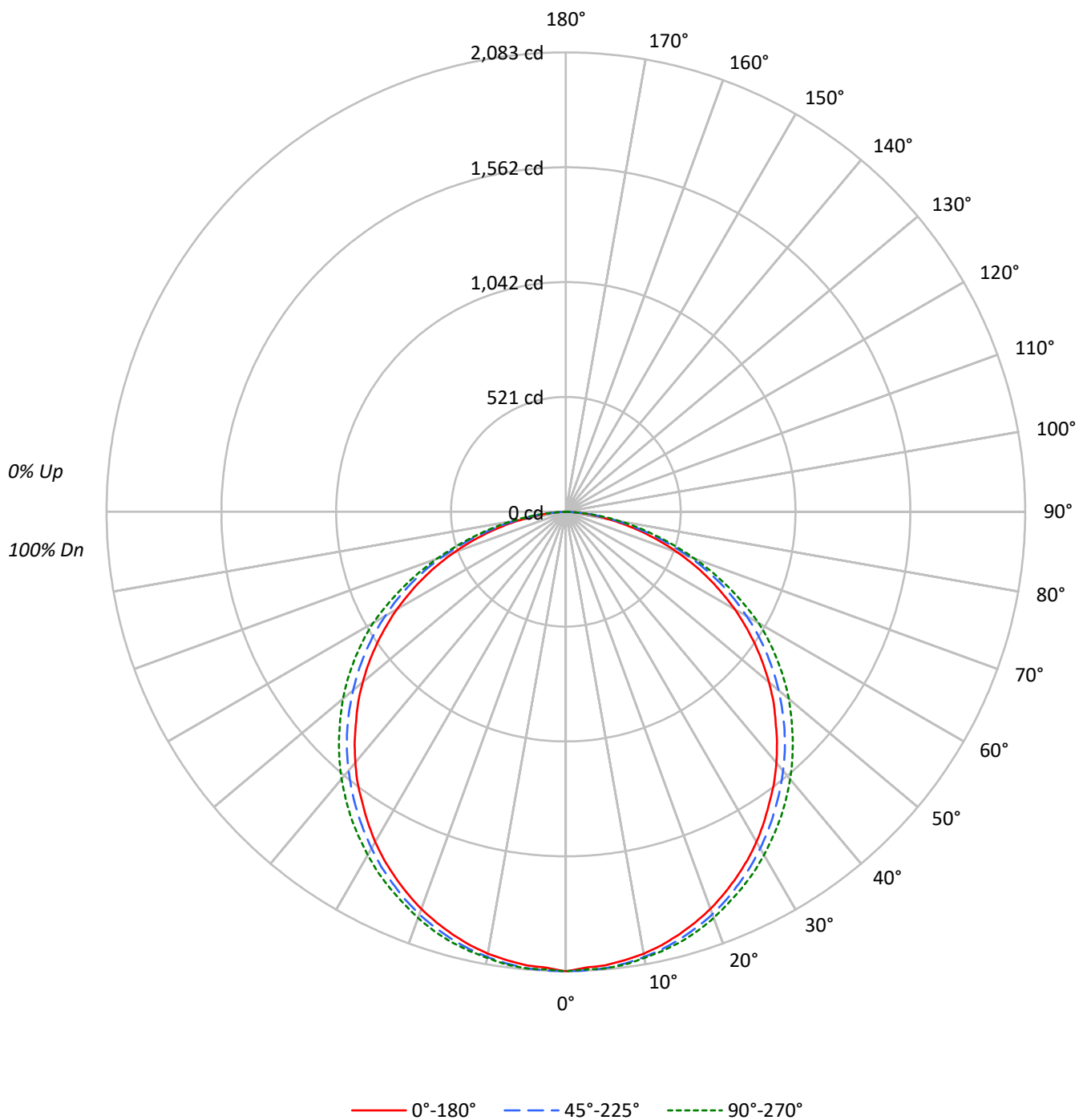
Lumens per Lamp: N/A
Luminaire Lumens: 6023.0 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	7020	7020	7020
5°	6981	7026	7032
10°	6962	7013	7028
15°	6921	6993	7042
20°	6873	6965	7029
25°	6803	6912	7008
30°	6726	6857	6992
35°	6619	6798	6980
40°	6532	6742	6961
45°	6409	6683	6933
50°	6302	6604	6920
55°	6151	6510	6875
60°	5963	6381	6805
65°	5697	6206	6524
70°	5310	5861	6123
75°	4744	5286	5586
80°	3889	4455	4886
85°	2606	3255	3634

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6933 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.3	3.3
10°-20°	565.7	9.4
20°-30°	856.5	14.2
30°-40°	1034.4	17.2
40°-50°	1081.0	17.9
50°-60°	990.5	16.4
60°-70°	764.6	12.7
70°-80°	430.1	7.1
80°-90°	102.9	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°	1619.5	26.9
0°-40°	2653.9	44.1
0°-60°	4725.4	78.5
0°-90°	6023.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6023.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2083	2083	2083	2083	2083	
5°	2064	2079	2077	2079	2079	196
15°	1984	2000	2004	2012	2019	560
25°	1830	1846	1859	1869	1885	843
35°	1609	1630	1652	1675	1697	1008
45°	1345	1372	1402	1431	1455	1039
55°	1047	1074	1108	1143	1170	935
65°	714	746	778	809	818	706
75°	364	398	406	423	429	386
85°	67	77	84	92	94	87
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2083.4	2083.4	2083.4	2083.4	2083.4
2.5°	2069.2	2085.1	2081.6	2086.9	2077.2
5°	2063.9	2078.9	2077.2	2078.9	2078.9
7.5°	2050.6	2066.5	2065.6	2068.3	2070.1
10°	2034.6	2049.7	2049.7	2052.3	2054.1
12.5°	2012.4	2028.4	2030.2	2034.6	2038.1
15°	1984.1	2000.0	2004.5	2012.4	2018.6
17.5°	1952.2	1969.0	1976.1	1984.1	1992.0
20°	1916.7	1931.8	1942.4	1948.6	1960.1
22.5°	1875.0	1891.9	1903.4	1909.6	1922.0
25°	1829.8	1845.8	1859.1	1868.8	1884.8
27.5°	1781.9	1797.9	1813.9	1825.4	1844.0
30°	1728.7	1745.6	1762.4	1780.2	1797.0
32.5°	1671.1	1690.6	1709.2	1728.7	1747.4
35°	1609.1	1629.5	1652.5	1674.7	1696.8
37.5°	1551.4	1570.1	1594.0	1617.9	1640.1
40°	1484.9	1505.3	1532.8	1559.4	1582.5
42.5°	1417.6	1439.7	1469.9	1495.6	1520.4
45°	1344.9	1371.5	1402.5	1430.9	1454.8
47.5°	1277.5	1300.5	1331.6	1362.6	1387.4
50°	1202.1	1227.9	1259.8	1292.6	1320.1
52.5°	1125.9	1152.5	1185.3	1218.1	1246.5
55°	1047.0	1074.5	1108.2	1142.7	1170.2
57.5°	966.3	995.6	1030.2	1064.7	1092.2
60°	884.8	914.0	946.8	984.9	1009.8
62.5°	799.7	832.5	863.5	898.9	914.0
65°	714.5	745.6	778.4	809.4	818.3
67.5°	627.7	659.6	688.8	709.2	720.8
70°	539.0	573.6	594.9	614.4	621.5
72.5°	451.2	485.8	498.2	516.9	523.9
75°	364.4	398.1	406.0	422.9	429.1
77.5°	280.1	311.2	313.8	333.3	338.7
80°	200.4	225.2	229.6	248.2	251.8
82.5°	128.5	146.3	152.5	168.4	173.8
85°	67.4	77.1	84.2	92.2	94.0
87.5°	22.2	27.5	23.0	23.9	22.2
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	18.48	20.13	18.85	20.45	20.76	19.02	20.67	19.39	20.99	21.30
	3H	20.26	21.75	20.64	22.08	22.44	20.88	22.37	21.26	22.70	23.06
	4H	20.89	22.29	21.28	22.64	23.01	21.55	22.96	21.95	23.30	23.68
	6H	21.29	22.60	21.70	22.96	23.35	22.03	23.33	22.44	23.69	24.08
	8H	21.40	22.64	21.82	23.03	23.43	22.17	23.42	22.60	23.81	24.21
	12H	21.45	22.64	21.88	23.02	23.45	22.25	23.45	22.68	23.83	24.26
4H	2H	19.21	20.61	19.61	20.96	21.34	19.63	21.04	20.03	21.38	21.76
	3H	21.20	22.38	21.61	22.78	23.18	21.70	22.88	22.11	23.28	23.68
	4H	21.96	23.03	22.39	23.44	23.88	22.50	23.57	22.93	23.98	24.41
	6H	22.49	23.42	22.94	23.86	24.32	23.10	24.03	23.55	24.47	24.93
	8H	22.63	23.50	23.09	23.94	24.41	23.29	24.17	23.75	24.61	25.07
	12H	22.71	23.49	23.18	23.97	24.43	23.41	24.20	23.89	24.67	25.14
8H	4H	22.30	23.17	22.76	23.61	24.08	22.77	23.65	23.23	24.09	24.55
	6H	22.94	23.66	23.43	24.15	24.62	23.49	24.21	23.98	24.70	25.17
	8H	23.14	23.79	23.65	24.29	24.78	23.74	24.39	24.25	24.90	25.39
	12H	23.27	23.84	23.77	24.33	24.89	23.93	24.50	24.43	24.99	25.55
12H	4H	22.33	23.12	22.81	23.59	24.06	22.80	23.58	23.28	24.06	24.53
	6H	22.99	23.64	23.50	24.15	24.64	23.52	24.18	24.03	24.68	25.17
	8H	23.24	23.82	23.75	24.31	24.87	23.83	24.41	24.34	24.90	25.46