

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: P1584791

Luminaire Tested: 14CZSP-A-70VHE-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-776-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-A-70VHE-L950
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 7200 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

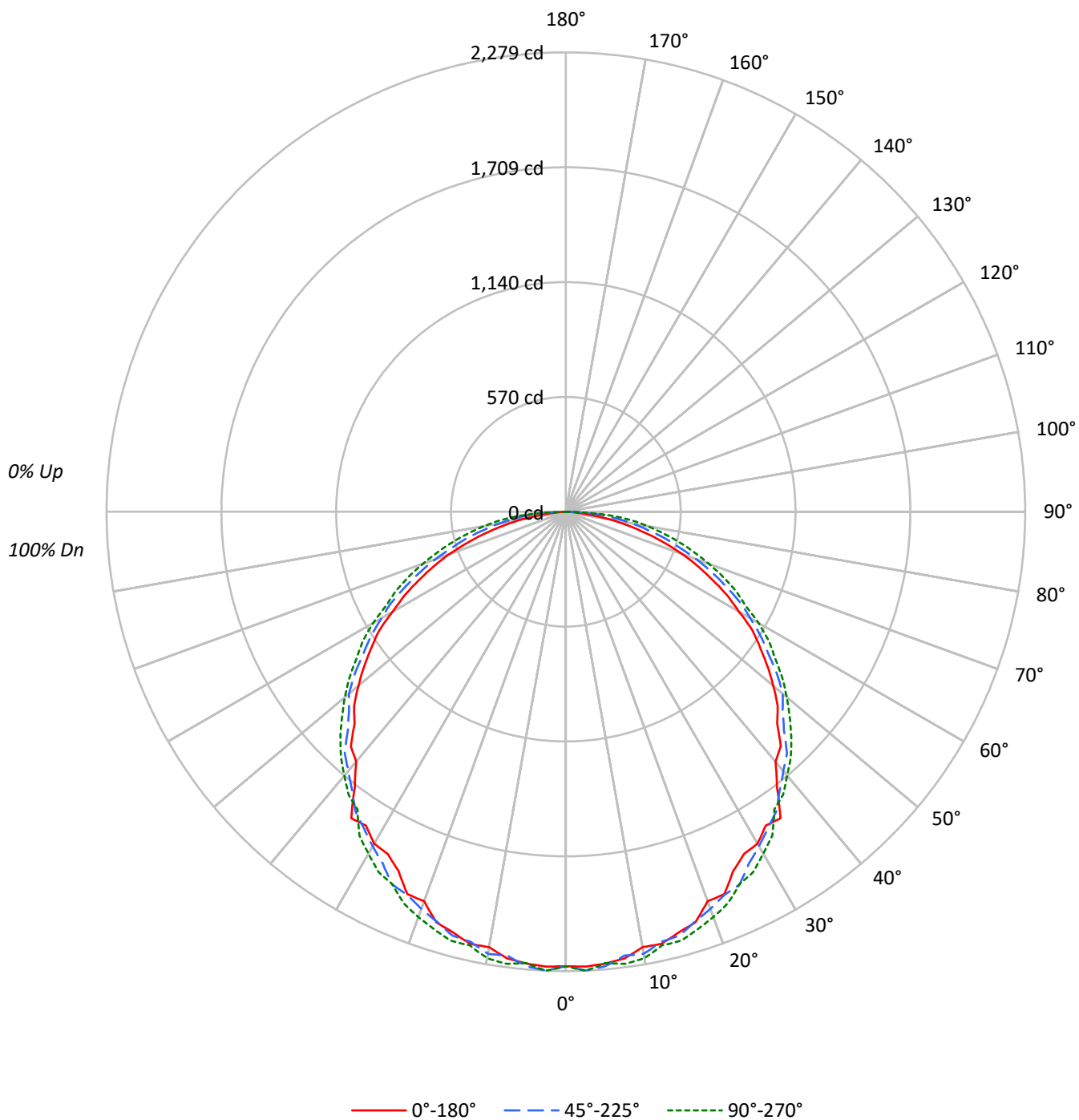
Lumens per Lamp: N/A
Luminaire Lumens: 6758.0 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1584791

CATALOG NUMBER: 14CZSP-A-70VHE-L950

Luminous Intensity Polar Plot



TEST NUMBER: P1584791

CATALOG NUMBER: 14CZSP-A-70VHE-L950

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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	88	81	75	84	78	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	61		71	65	60		68	63	59	57
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61	55	51	48
5	75	62	52	46	73	61	52	45	58	51	45		56	50	44		55	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7597	7597	7597
5°	7610	7653	7602
10°	7503	7619	7694
15°	7537	7594	7687
20°	7372	7518	7672
25°	7307	7583	7579
30°	7398	7457	7620
35°	7635	7478	7415
40°	7117	7383	7516
45°	7063	7290	7539
50°	7045	7362	7501
55°	6919	7199	7445
60°	6685	7116	7444
65°	6427	6992	7428
70°	6077	6798	7438
75°	5369	6638	7576
80°	4418	6470	8024
85°	2470	6828	8939

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 8939 cd/sqm

TEST NUMBER: P1584791

CATALOG NUMBER: 14CZSP-A-70VHE-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.7	3.2
10°-20°	613.4	9.1
20°-30°	932.2	13.8
30°-40°	1133.5	16.8
40°-50°	1189.9	17.6
50°-60°	1100.5	16.3
60°-70°	867.0	12.8
70°-80°	532.9	7.9
80°-90°	175.0	2.6
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°	1759.2	26.0
0°-40°	2892.7	42.8
0°-60°	5183.1	76.7
0°-90°	6758.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6758.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2255	2255	2255	2255	2255	
5°	2250	2210	2263	2243	2248	213
15°	2160	2155	2177	2206	2204	609
25°	1965	2001	2040	2034	2038	913
35°	1856	1790	1818	1846	1803	1125
45°	1482	1514	1530	1574	1582	1152
55°	1178	1215	1225	1257	1267	1053
65°	806	838	877	915	932	798
75°	412	458	510	562	582	439
85°	64	112	177	216	231	89
90°	0	0	0	0	0	

TEST NUMBER: P1584791

CATALOG NUMBER: 14CZSP-A-70VHE-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2254.6	2254.6	2254.6	2254.6	2254.6
2.5°	2258.1	2261.6	2277.8	2241.8	2279.0
5°	2249.9	2210.4	2262.7	2243.0	2247.6
7.5°	2234.8	2239.5	2220.9	2232.5	2261.6
10°	2193.0	2222.1	2226.7	2231.4	2248.8
12.5°	2195.3	2176.8	2184.9	2218.6	2203.5
15°	2160.5	2154.7	2176.8	2205.8	2203.5
17.5°	2136.1	2123.3	2131.5	2145.4	2172.1
20°	2056.0	2089.6	2096.6	2139.6	2139.6
22.5°	2053.6	2052.5	2057.1	2079.2	2102.4
25°	1965.4	2001.4	2039.7	2033.9	2038.5
27.5°	1914.2	1954.9	1967.7	2007.2	2014.1
30°	1901.5	1908.4	1916.6	1959.5	1958.4
32.5°	1845.7	1857.3	1863.1	1887.5	1906.1
35°	1856.2	1790.0	1817.8	1845.7	1802.7
37.5°	1720.3	1730.7	1742.3	1763.2	1770.2
40°	1618.1	1644.8	1678.5	1702.8	1708.7
42.5°	1578.6	1618.1	1623.9	1645.9	1651.7
45°	1482.1	1513.5	1529.8	1573.9	1582.0
47.5°	1425.2	1429.9	1458.9	1500.7	1506.5
50°	1343.9	1375.3	1404.3	1422.9	1431.0
52.5°	1261.5	1296.3	1319.5	1337.0	1353.2
55°	1177.8	1215.0	1225.4	1256.8	1267.3
57.5°	1100.0	1111.6	1145.3	1175.5	1194.1
60°	992.0	1031.5	1055.9	1111.6	1104.6
62.5°	904.9	931.6	976.9	1004.7	1001.3
65°	806.1	837.5	877.0	915.3	931.6
67.5°	712.0	753.9	782.9	832.8	844.5
70°	616.8	636.5	690.0	738.8	755.0
72.5°	514.6	545.9	592.4	645.8	665.6
75°	412.4	457.7	509.9	562.2	581.9
77.5°	315.9	355.4	414.7	475.1	494.8
80°	227.7	263.7	333.4	389.1	413.5
82.5°	133.6	182.4	250.9	312.5	331.0
85°	63.9	111.5	176.6	216.0	231.2
87.5°	17.4	49.9	77.8	101.1	104.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584791

CATALOG NUMBER: 14CZSP-A-70VHE-L950

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	18.85	20.52	19.22	20.83	21.15	19.28	20.95	19.65	21.27	21.58
	3H	20.66	22.17	21.03	22.50	22.86	21.37	22.88	21.74	23.21	23.57
	4H	21.30	22.73	21.69	23.07	23.45	22.25	23.68	22.65	24.02	24.40
	6H	21.71	23.04	22.12	23.40	23.79	23.03	24.36	23.44	24.72	25.11
	8H	21.81	23.08	22.23	23.47	23.87	23.37	24.64	23.79	25.03	25.43
	12H	21.85	23.07	22.28	23.45	23.88	23.66	24.88	24.09	25.26	25.69
4H	2H	19.58	21.01	19.98	21.36	21.73	19.92	21.35	20.31	21.69	22.07
	3H	21.61	22.81	22.02	23.21	23.61	22.23	23.44	22.64	23.83	24.23
	4H	22.39	23.48	22.82	23.89	24.33	23.27	24.36	23.70	24.78	25.21
	6H	22.92	23.88	23.38	24.32	24.78	24.22	25.18	24.67	25.62	26.07
	8H	23.06	23.96	23.52	24.40	24.87	24.64	25.54	25.10	25.98	26.44
	12H	23.14	23.95	23.62	24.42	24.89	25.01	25.82	25.49	26.29	26.76
8H	4H	22.82	23.72	23.28	24.16	24.62	23.59	24.49	24.05	24.93	25.40
	6H	23.50	24.25	23.99	24.73	25.21	24.71	25.46	25.20	25.94	26.42
	8H	23.71	24.39	24.22	24.89	25.37	25.25	25.92	25.75	26.43	26.91
	12H	23.85	24.45	24.35	24.94	25.49	25.75	26.35	26.25	26.84	27.39
12H	4H	22.90	23.71	23.38	24.19	24.65	23.62	24.43	24.10	24.91	25.38
	6H	23.63	24.30	24.13	24.81	25.29	24.77	25.44	25.27	25.95	26.43
	8H	23.91	24.51	24.42	25.00	25.56	25.38	25.98	25.89	26.47	27.03