

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: P1584776

Luminaire Tested: 14CZSP-A-70VHE-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584776
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-L840-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 7200 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

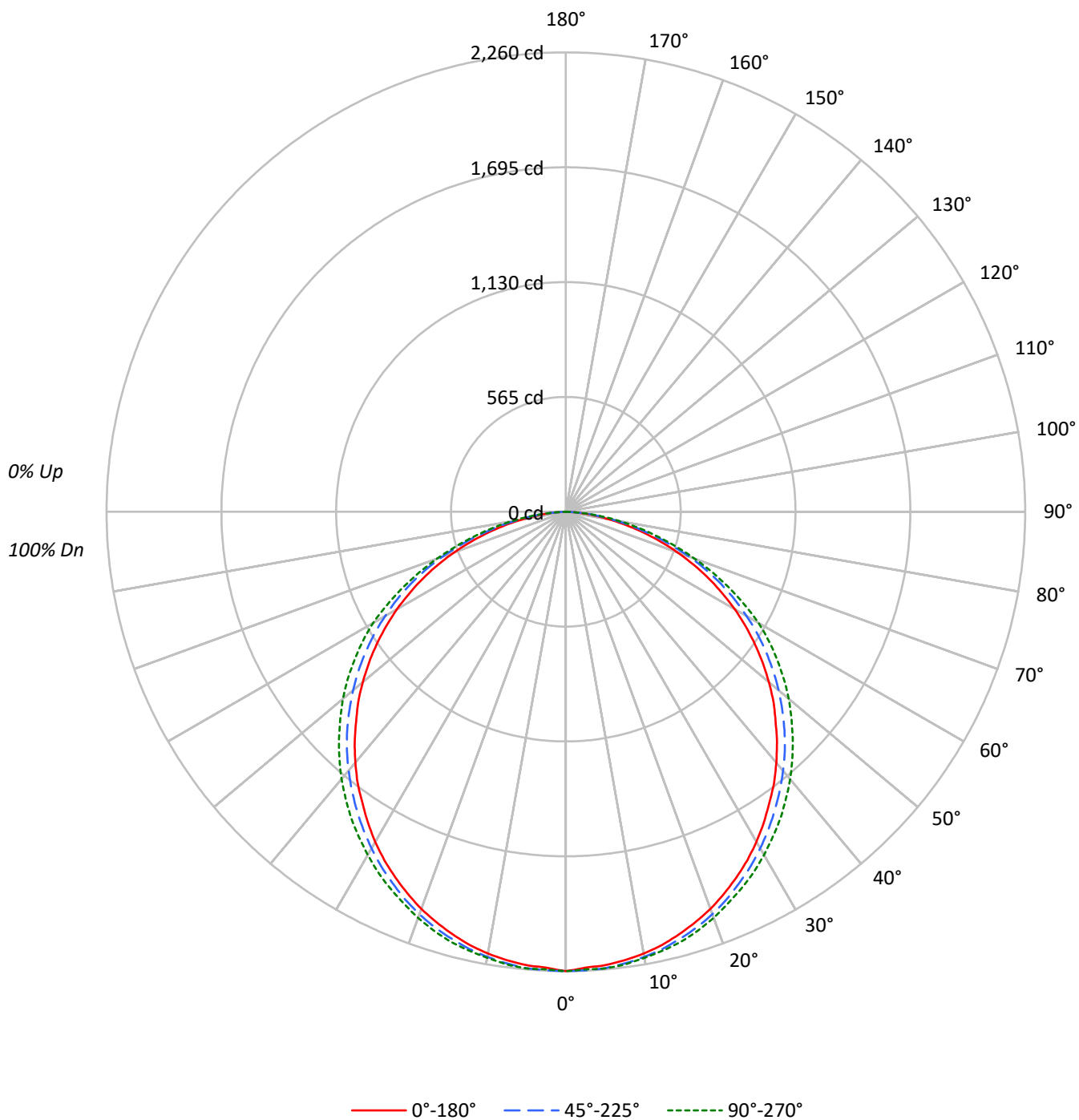
Lumens per Lamp: N/A
Luminaire Lumens: 6534.0 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1584776

CATALOG NUMBER: 14CZSP-A-70VHE-L840-S

Luminous Intensity Polar Plot



TEST NUMBER: P1584776

CATALOG NUMBER: 14CZSP-A-70VHE-L840-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°	7616	7616	7616
5°	7573	7622	7628
10°	7552	7608	7625
15°	7509	7586	7639
20°	7456	7556	7625
25°	7380	7498	7602
30°	7297	7439	7585
35°	7181	7374	7572
40°	7086	7315	7551
45°	6953	7250	7521
50°	6836	7164	7507
55°	6672	7063	7458
60°	6468	6922	7382
65°	6181	6732	7078
70°	5760	6357	6642
75°	5146	5735	6060
80°	4219	4834	5299
85°	2826	3534	3940

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7521 cd/sqm

TEST NUMBER: P1584776

CATALOG NUMBER: 14CZSP-A-70VHE-L840-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.1	3.3
10°-20°	613.7	9.4
20°-30°	929.2	14.2
30°-40°	1122.1	17.2
40°-50°	1172.7	17.9
50°-60°	1074.6	16.4
60°-70°	829.5	12.7
70°-80°	466.6	7.1
80°-90°	111.6	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°	1756.9	26.9
0°-40°	2879.0	44.1
0°-60°	5126.3	78.5
0°-90°	6534.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6534.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2260	2260	2260	2260	2260	
5°	2239	2255	2253	2255	2255	213
15°	2152	2170	2174	2183	2190	607
25°	1985	2002	2017	2027	2045	915
35°	1746	1768	1793	1817	1841	1094
45°	1459	1488	1522	1552	1578	1128
55°	1136	1166	1202	1240	1270	1015
65°	775	809	844	878	888	766
75°	395	432	440	459	466	419
85°	73	84	91	100	102	94
90°	0	0	0	0	0	

TEST NUMBER: P1584776

CATALOG NUMBER: 14CZSP-A-70VHE-L840-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2260.1	2260.1	2260.1	2260.1	2260.1
2.5°	2244.7	2262.0	2258.2	2264.0	2253.4
5°	2239.0	2255.3	2253.4	2255.3	2255.3
7.5°	2224.5	2241.8	2240.9	2243.8	2245.7
10°	2207.2	2223.6	2223.6	2226.5	2228.4
12.5°	2183.2	2200.5	2202.4	2207.2	2211.1
15°	2152.4	2169.7	2174.5	2183.2	2189.9
17.5°	2117.8	2136.1	2143.7	2152.4	2161.1
20°	2079.3	2095.7	2107.2	2113.9	2126.4
22.5°	2034.1	2052.4	2064.9	2071.6	2085.1
25°	1985.1	2002.4	2016.8	2027.4	2044.7
27.5°	1933.1	1950.4	1967.7	1980.2	2000.4
30°	1875.4	1893.7	1912.0	1931.2	1949.5
32.5°	1812.9	1834.1	1854.3	1875.4	1895.6
35°	1745.6	1767.7	1792.7	1816.7	1840.8
37.5°	1683.1	1703.3	1729.2	1755.2	1779.2
40°	1610.9	1633.1	1662.9	1691.7	1716.7
42.5°	1537.8	1561.9	1594.6	1622.5	1649.4
45°	1459.0	1487.8	1521.5	1552.3	1578.2
47.5°	1385.9	1410.9	1444.6	1478.2	1505.1
50°	1304.1	1332.0	1366.6	1402.2	1432.0
52.5°	1221.4	1250.3	1285.9	1321.4	1352.2
55°	1135.8	1165.6	1202.2	1239.7	1269.5
57.5°	1048.3	1080.0	1117.6	1155.1	1184.9
60°	959.8	991.6	1027.2	1068.5	1095.4
62.5°	867.5	903.1	936.7	975.2	991.6
65°	775.2	808.8	844.4	878.1	887.7
67.5°	680.9	715.5	747.3	769.4	781.9
70°	584.7	622.3	645.3	666.5	674.2
72.5°	489.5	527.0	540.5	560.7	568.4
75°	395.3	431.8	440.5	458.8	465.5
77.5°	303.9	337.6	340.5	361.6	367.4
80°	217.4	244.3	249.1	269.3	273.1
82.5°	139.5	158.7	165.4	182.7	188.5
85°	73.1	83.7	91.4	100.0	101.9
87.5°	24.0	29.8	25.0	26.0	24.0
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584776

CATALOG NUMBER: 14CZSP-A-70VHE-L840-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	18.77	20.42	19.13	20.73	21.04	19.31	20.96	19.67	21.27	21.58
	3H	20.54	22.03	20.92	22.36	22.72	21.16	22.66	21.54	22.98	23.34
	4H	21.17	22.57	21.57	22.92	23.30	21.83	23.24	22.23	23.59	23.96
	6H	21.58	22.88	21.99	23.25	23.64	22.31	23.61	22.72	23.98	24.37
	8H	21.68	22.93	22.10	23.32	23.71	22.45	23.70	22.88	24.09	24.49
	12H	21.73	22.92	22.16	23.31	23.73	22.54	23.73	22.97	24.11	24.54
4H	2H	19.49	20.90	19.89	21.24	21.62	19.91	21.32	20.31	21.67	22.04
	3H	21.48	22.67	21.89	23.06	23.46	21.98	23.17	22.39	23.56	23.96
	4H	22.24	23.31	22.67	23.72	24.16	22.78	23.85	23.21	24.26	24.70
	6H	22.77	23.70	23.22	24.14	24.60	23.38	24.32	23.84	24.76	25.21
	8H	22.91	23.78	23.37	24.22	24.69	23.57	24.45	24.03	24.89	25.35
	12H	22.99	23.77	23.47	24.25	24.72	23.70	24.48	24.17	24.96	25.42
8H	4H	22.58	23.45	23.04	23.89	24.36	23.06	23.93	23.52	24.37	24.84
	6H	23.22	23.95	23.71	24.43	24.91	23.77	24.50	24.26	24.98	25.46
	8H	23.42	24.07	23.93	24.58	25.06	24.03	24.68	24.53	25.18	25.67
	12H	23.55	24.12	24.06	24.61	25.17	24.21	24.78	24.71	25.27	25.83
12H	4H	22.62	23.40	23.10	23.88	24.35	23.08	23.87	23.56	24.34	24.81
	6H	23.27	23.93	23.78	24.43	24.92	23.81	24.46	24.31	24.96	25.45
	8H	23.53	24.10	24.03	24.59	25.15	24.11	24.69	24.62	25.18	25.74