

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: P1584473

Luminaire Tested: 14CZSP-70VHE-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584473
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-70VHE-L830
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 7200 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

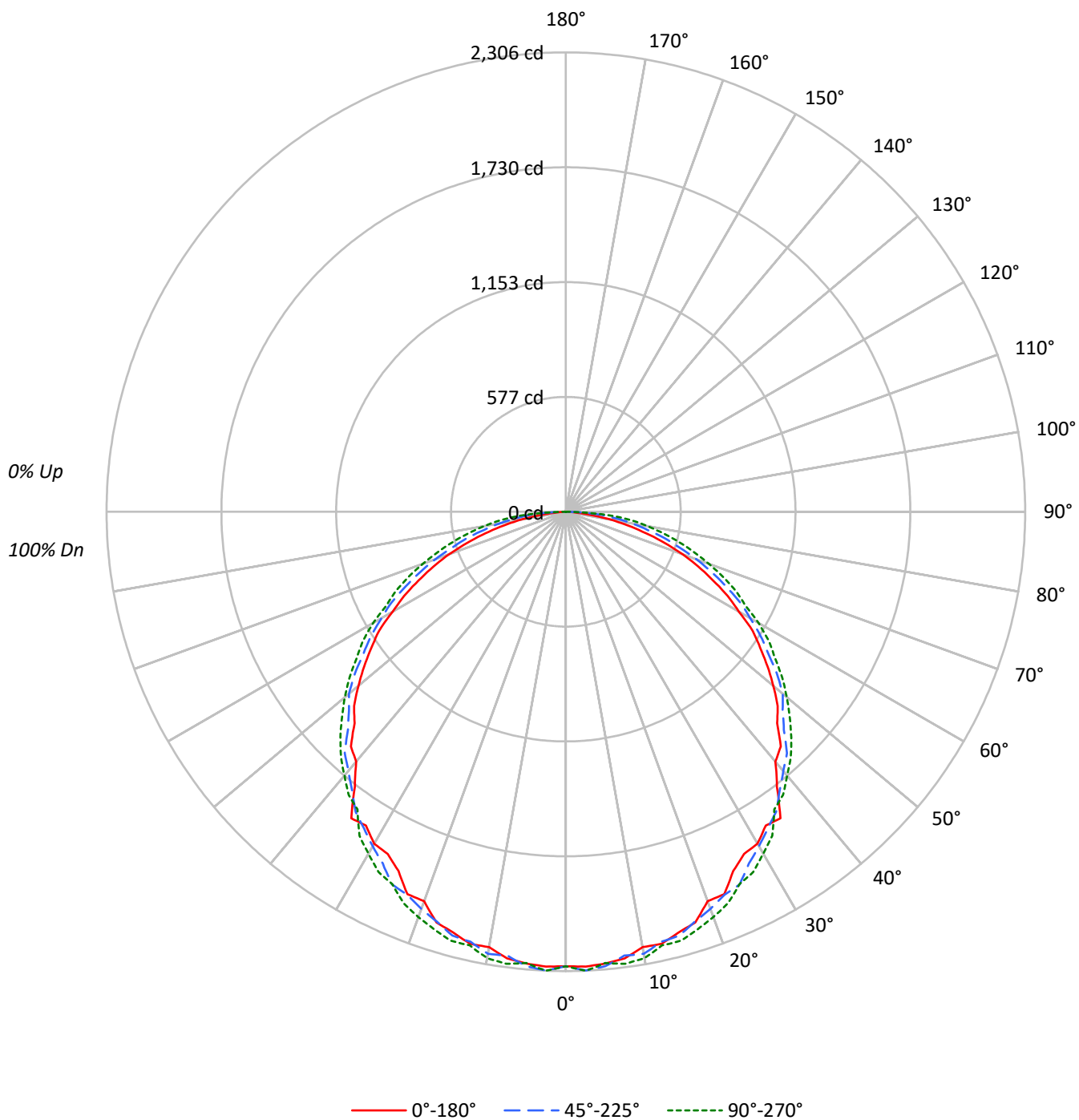
Lumens per Lamp: N/A
Luminaire Lumens: 6838.0 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1584473

CATALOG NUMBER: 14CZSP-70VHE-L830

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			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°	7687	7687	7687
5°	7700	7744	7692
10°	7592	7709	7785
15°	7626	7683	7778
20°	7460	7607	7763
25°	7393	7673	7669
30°	7486	7546	7710
35°	7726	7566	7503
40°	7202	7470	7605
45°	7147	7376	7628
50°	7128	7449	7591
55°	7001	7285	7533
60°	6764	7200	7532
65°	6504	7075	7515
70°	6149	6878	7527
75°	5432	6718	7666
80°	4471	6545	8119
85°	2498	6905	9043

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 9043 cd/sqm

TEST NUMBER: P1584473
CATALOG NUMBER: 14CZSP-70VHE-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.2	3.2
10°-20°	620.6	9.1
20°-30°	943.2	13.8
30°-40°	1147.0	16.8
40°-50°	1204.0	17.6
50°-60°	1113.5	16.3
60°-70°	877.2	12.8
70°-80°	539.2	7.9
80°-90°	177.1	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°	1780.0	26.0
0°-40°	2927.0	42.8
0°-60°	5244.5	76.7
0°-90°	6838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6838.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2281	2281	2281	2281	2281	
5°	2277	2237	2290	2270	2274	216
15°	2186	2180	2202	2232	2230	616
25°	1989	2025	2064	2058	2063	924
35°	1878	1811	1839	1868	1824	1138
45°	1500	1531	1548	1592	1601	1166
55°	1192	1229	1240	1272	1282	1065
65°	816	847	887	926	943	808
75°	417	463	516	569	589	444
85°	65	113	179	219	234	90
90°	0	0	0	0	0	

TEST NUMBER: P1584473

CATALOG NUMBER: 14CZSP-70VHE-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2281.3	2281.3	2281.3	2281.3	2281.3
2.5°	2284.8	2288.3	2304.8	2268.3	2306.0
5°	2276.6	2236.6	2289.5	2269.5	2274.2
7.5°	2261.3	2266.0	2247.2	2258.9	2288.3
10°	2219.0	2248.4	2253.1	2257.8	2275.4
12.5°	2221.3	2202.5	2210.8	2244.8	2229.6
15°	2186.1	2180.2	2202.5	2231.9	2229.6
17.5°	2161.4	2148.5	2156.7	2170.8	2197.8
20°	2080.3	2114.4	2121.4	2164.9	2164.9
22.5°	2077.9	2076.8	2081.5	2103.8	2127.3
25°	1988.6	2025.1	2063.8	2058.0	2062.7
27.5°	1936.9	1978.0	1991.0	2030.9	2038.0
30°	1924.0	1931.0	1939.3	1982.7	1981.6
32.5°	1867.6	1879.3	1885.2	1909.9	1928.7
35°	1878.1	1811.1	1839.4	1867.6	1824.1
37.5°	1740.6	1751.2	1763.0	1784.1	1791.2
40°	1637.2	1664.2	1698.3	1723.0	1728.9
42.5°	1597.2	1637.2	1643.1	1665.4	1671.3
45°	1499.7	1531.4	1547.9	1592.5	1600.8
47.5°	1442.1	1446.8	1476.2	1518.5	1524.4
50°	1359.8	1391.6	1420.9	1439.8	1448.0
52.5°	1276.4	1311.6	1335.2	1352.8	1369.2
55°	1191.8	1229.4	1240.0	1271.7	1282.3
57.5°	1113.0	1124.8	1158.9	1189.4	1208.2
60°	1003.7	1043.7	1068.4	1124.8	1117.7
62.5°	915.6	942.6	988.4	1016.6	1013.1
65°	815.7	847.4	887.4	926.1	942.6
67.5°	720.5	762.8	792.2	842.7	854.4
70°	624.1	644.1	698.1	747.5	764.0
72.5°	520.7	552.4	599.4	653.5	673.5
75°	417.2	463.1	516.0	568.8	588.8
77.5°	319.7	359.6	419.6	480.7	500.7
80°	230.4	266.8	337.3	393.7	418.4
82.5°	135.2	184.5	253.9	316.2	335.0
85°	64.6	112.8	178.6	218.6	233.9
87.5°	17.6	50.5	78.7	102.3	105.8
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584473

CATALOG NUMBER: 14CZSP-70VHE-L830

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	18.89	20.56	19.26	20.88	21.19	19.32	20.99	19.69	21.31	21.62
	3H	20.70	22.21	21.08	22.54	22.90	21.41	22.92	21.78	23.25	23.61
	4H	21.34	22.77	21.73	23.11	23.49	22.29	23.72	22.69	24.07	24.44
	6H	21.75	23.08	22.16	23.44	23.83	23.07	24.40	23.48	24.76	25.15
	8H	21.85	23.12	22.27	23.51	23.91	23.41	24.68	23.84	25.07	25.47
	12H	21.89	23.11	22.32	23.49	23.92	23.70	24.92	24.13	25.30	25.73
4H	2H	19.62	21.05	20.02	21.40	21.77	19.96	21.39	20.35	21.73	22.11
	3H	21.65	22.86	22.06	23.25	23.65	22.27	23.48	22.68	23.87	24.27
	4H	22.43	23.52	22.86	23.93	24.37	23.31	24.40	23.74	24.82	25.25
	6H	22.97	23.92	23.42	24.36	24.82	24.26	25.22	24.71	25.66	26.11
	8H	23.10	24.00	23.56	24.45	24.91	24.68	25.58	25.14	26.02	26.49
	12H	23.18	23.99	23.66	24.46	24.93	25.05	25.86	25.53	26.33	26.80
8H	4H	22.86	23.76	23.32	24.20	24.66	23.63	24.53	24.09	24.97	25.44
	6H	23.54	24.29	24.03	24.78	25.25	24.75	25.50	25.24	25.99	26.46
	8H	23.75	24.43	24.26	24.93	25.42	25.29	25.96	25.79	26.47	26.95
	12H	23.89	24.49	24.39	24.98	25.53	25.79	26.39	26.29	26.88	27.44
12H	4H	22.94	23.75	23.42	24.23	24.69	23.66	24.47	24.14	24.95	25.42
	6H	23.67	24.34	24.17	24.85	25.33	24.81	25.49	25.32	25.99	26.47
	8H	23.96	24.55	24.46	25.04	25.60	25.42	26.02	25.93	26.51	27.07