

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: P1584452

Luminaire Tested: 14CZSP-70-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584452
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-70-L830-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 6700 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

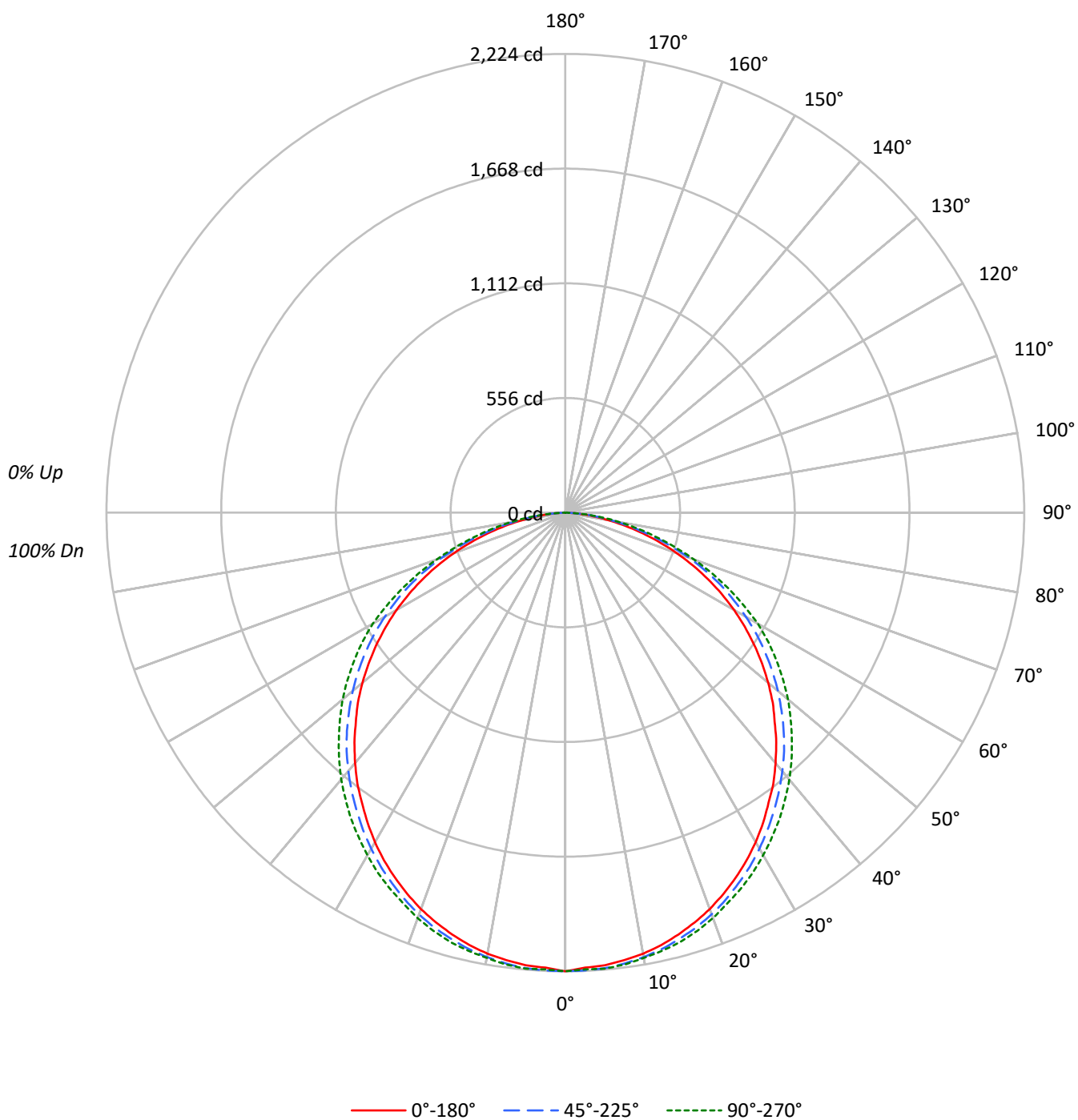
Lumens per Lamp: N/A
Luminaire Lumens: 6428.0 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 53.4
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			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°	7492	7492	7492
5°	7450	7498	7505
10°	7430	7485	7501
15°	7387	7462	7516
20°	7335	7433	7501
25°	7261	7377	7479
30°	7179	7318	7462
35°	7064	7255	7449
40°	6971	7196	7429
45°	6840	7133	7399
50°	6726	7048	7385
55°	6564	6948	7337
60°	6364	6810	7263
65°	6080	6623	6963
70°	5668	6255	6535
75°	5063	5641	5961
80°	4149	4756	5214
85°	2780	3476	3878

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7399 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.6	3.3
10°-20°	603.7	9.4
20°-30°	914.1	14.2
30°-40°	1103.9	17.2
40°-50°	1153.7	17.9
50°-60°	1057.1	16.4
60°-70°	816.0	12.7
70°-80°	459.0	7.1
80°-90°	109.8	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°	1728.4	26.9
0°-40°	2832.3	44.1
0°-60°	5043.1	78.5
0°-90°	6428.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6428.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2224	2224	2224	2224	2224	
5°	2203	2219	2217	2219	2219	209
15°	2118	2134	2139	2148	2154	598
25°	1953	1970	1984	1994	2012	900
35°	1717	1739	1764	1787	1811	1076
45°	1435	1464	1497	1527	1553	1109
55°	1117	1147	1183	1220	1249	998
65°	763	796	831	864	873	753
75°	389	425	433	451	458	412
85°	72	82	90	98	100	92
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2223.5	2223.5	2223.5	2223.5	2223.5
2.5°	2208.3	2225.3	2221.6	2227.2	2216.8
5°	2202.6	2218.7	2216.8	2218.7	2218.7
7.5°	2188.4	2205.5	2204.5	2207.4	2209.3
10°	2171.4	2187.5	2187.5	2190.3	2192.2
12.5°	2147.8	2164.8	2166.7	2171.4	2175.2
15°	2117.5	2134.5	2139.2	2147.8	2154.4
17.5°	2083.4	2101.4	2109.0	2117.5	2126.0
20°	2045.6	2061.7	2073.0	2079.6	2091.9
22.5°	2001.1	2019.1	2031.4	2038.0	2051.3
25°	1952.9	1969.9	1984.1	1994.5	2011.5
27.5°	1901.8	1918.8	1935.8	1948.1	1968.0
30°	1845.0	1863.0	1880.9	1899.9	1917.8
32.5°	1783.5	1804.3	1824.2	1845.0	1864.9
35°	1717.3	1739.0	1763.6	1787.3	1810.9
37.5°	1655.8	1675.6	1701.2	1726.7	1750.4
40°	1584.8	1606.6	1635.9	1664.3	1688.9
42.5°	1512.9	1536.5	1568.7	1596.2	1622.6
45°	1435.3	1463.7	1496.8	1527.1	1552.6
47.5°	1363.4	1388.0	1421.1	1454.2	1480.7
50°	1283.0	1310.4	1344.5	1379.5	1408.8
52.5°	1201.6	1230.0	1265.0	1300.0	1330.3
55°	1117.4	1146.7	1182.7	1219.6	1248.9
57.5°	1031.3	1062.5	1099.4	1136.3	1165.7
60°	944.3	975.5	1010.5	1051.2	1077.7
62.5°	853.4	888.4	921.5	959.4	975.5
65°	762.6	795.7	830.7	863.8	873.3
67.5°	669.9	703.9	735.2	756.9	769.2
70°	575.3	612.2	634.9	655.7	663.3
72.5°	481.6	518.5	531.7	551.6	559.2
75°	388.9	424.8	433.3	451.3	457.9
77.5°	299.0	332.1	334.9	355.8	361.4
80°	213.8	240.3	245.1	264.9	268.7
82.5°	137.2	156.1	162.7	179.8	185.4
85°	71.9	82.3	89.9	98.4	100.3
87.5°	23.7	29.3	24.6	25.5	23.7
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	18.71	20.36	19.07	20.67	20.99	19.25	20.90	19.61	21.21	21.53
	3H	20.48	21.98	20.86	22.30	22.66	21.11	22.60	21.48	22.93	23.29
	4H	21.11	22.52	21.51	22.87	23.24	21.77	23.18	22.17	23.53	23.90
	6H	21.52	22.82	21.93	23.19	23.58	22.25	23.56	22.66	23.92	24.31
	8H	21.62	22.87	22.05	23.26	23.66	22.40	23.64	22.82	24.03	24.43
	12H	21.67	22.87	22.10	23.25	23.68	22.48	23.67	22.91	24.06	24.48
4H	2H	19.43	20.84	19.83	21.19	21.56	19.86	21.26	20.25	21.61	21.99
	3H	21.43	22.61	21.84	23.01	23.41	21.93	23.11	22.34	23.50	23.90
	4H	22.19	23.25	22.62	23.67	24.10	22.72	23.79	23.15	24.20	24.64
	6H	22.71	23.65	23.17	24.09	24.54	23.33	24.26	23.78	24.70	25.15
	8H	22.85	23.73	23.31	24.17	24.63	23.52	24.39	23.98	24.83	25.30
	12H	22.93	23.72	23.41	24.19	24.66	23.64	24.42	24.12	24.90	25.37
8H	4H	22.52	23.40	22.98	23.84	24.30	23.00	23.87	23.46	24.32	24.78
	6H	23.16	23.89	23.66	24.38	24.85	23.71	24.44	24.20	24.93	25.40
	8H	23.36	24.01	23.87	24.52	25.00	23.97	24.62	24.48	25.13	25.61
	12H	23.49	24.07	24.00	24.56	25.12	24.15	24.73	24.66	25.22	25.78
12H	4H	22.56	23.35	23.04	23.82	24.29	23.02	23.81	23.50	24.28	24.75
	6H	23.22	23.87	23.73	24.38	24.86	23.75	24.40	24.26	24.91	25.39
	8H	23.47	24.04	23.98	24.53	25.09	24.06	24.63	24.56	25.12	25.68