

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: P1584753

Luminaire Tested: 14CZSP-A-70-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2603-724-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-A-70-L830
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 6700 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

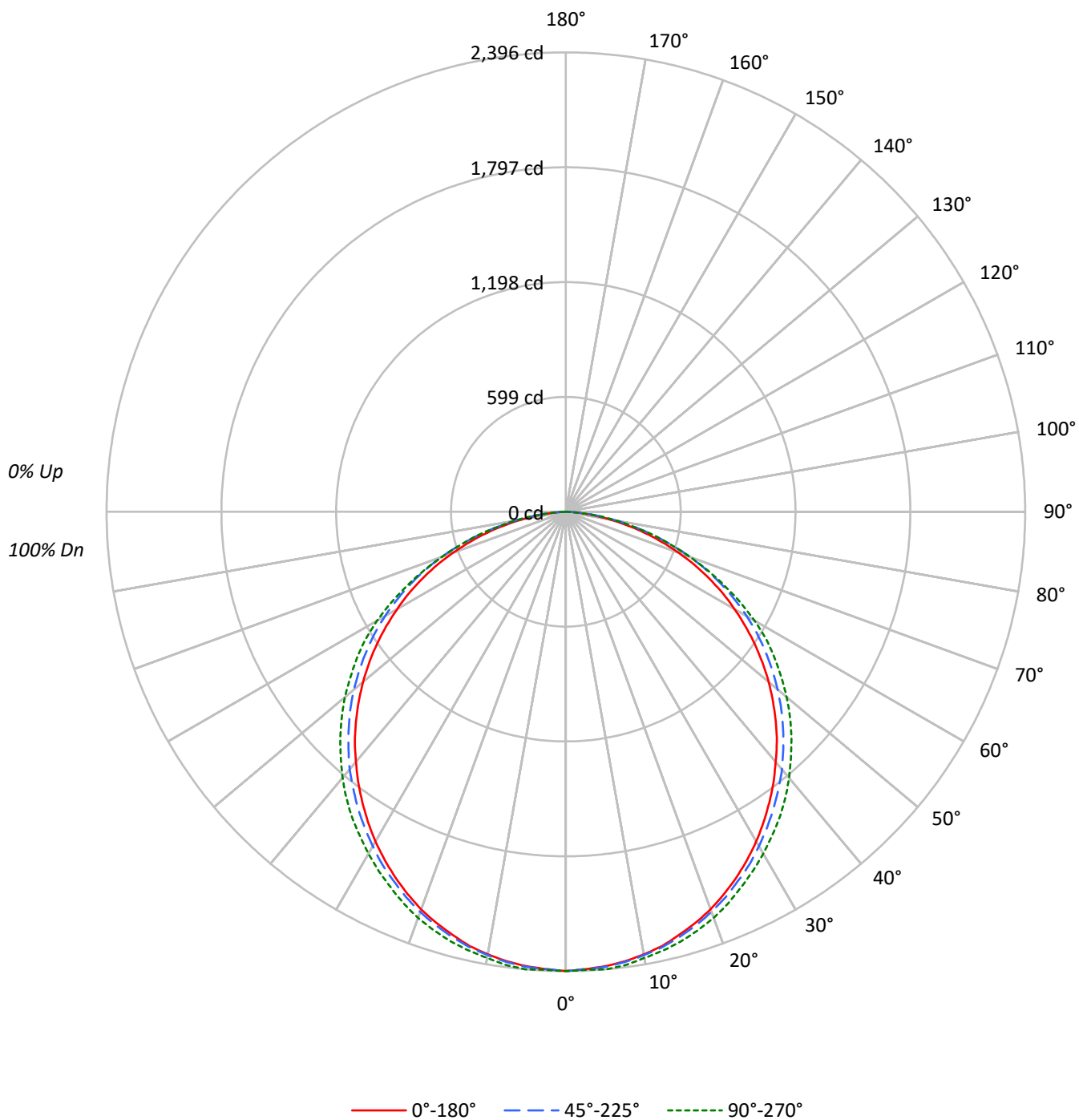
Lumens per Lamp: N/A
Luminaire Lumens: 6912.0 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	53		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	29		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°	8072	8072	8072
5°	8047	8061	8103
10°	8021	8035	8084
15°	7970	8006	8092
20°	7914	7965	8083
25°	7824	7901	8038
30°	7726	7837	8013
35°	7612	7772	8000
40°	7490	7716	7968
45°	7382	7636	7929
50°	7240	7562	7885
55°	7067	7464	7813
60°	6850	7347	7664
65°	6584	7140	7287
70°	6177	6783	6783
75°	5549	6163	6189
80°	4574	5208	5208
85°	3170	3804	3329

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7929 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.9	3.3
10°-20°	649.9	9.4
20°-30°	983.5	14.2
30°-40°	1187.4	17.2
40°-50°	1240.5	17.9
50°-60°	1136.4	16.4
60°-70°	876.1	12.7
70°-80°	494.3	7.2
80°-90°	117.0	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°	1860.3	26.9
0°-40°	3047.7	44.1
0°-60°	5424.6	78.5
0°-90°	6912.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6912.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2396	2396	2396	2396	2396	
5°	2379	2396	2383	2387	2396	226
15°	2285	2299	2295	2314	2320	645
25°	2104	2123	2125	2154	2162	970
35°	1850	1875	1889	1930	1945	1158
45°	1549	1576	1602	1650	1664	1194
55°	1203	1234	1270	1318	1330	1075
65°	826	852	896	926	914	816
75°	426	459	473	486	475	452
85°	82	92	98	104	86	103
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2395.5	2395.5	2395.5	2395.5	2395.5
2.5°	2387.3	2403.7	2387.3	2395.5	2391.4
5°	2379.1	2395.5	2383.2	2387.3	2395.5
7.5°	2364.7	2381.1	2368.8	2375.0	2385.2
10°	2344.2	2360.6	2348.3	2358.6	2362.7
12.5°	2319.7	2334.0	2325.8	2338.1	2344.2
15°	2284.8	2299.2	2295.1	2313.5	2319.7
17.5°	2247.9	2264.3	2260.2	2282.8	2288.9
20°	2207.0	2221.3	2221.3	2241.8	2254.1
22.5°	2157.8	2174.2	2176.2	2198.8	2211.1
25°	2104.5	2122.9	2125.0	2153.7	2161.9
27.5°	2047.1	2065.6	2073.8	2104.5	2112.7
30°	1985.6	2004.1	2014.3	2049.2	2059.4
32.5°	1920.1	1942.6	1952.9	1991.8	2002.0
35°	1850.4	1875.0	1889.3	1930.3	1944.7
37.5°	1778.7	1803.3	1821.7	1864.7	1881.1
40°	1702.9	1729.5	1754.1	1797.1	1811.5
42.5°	1629.1	1655.7	1678.3	1723.3	1737.7
45°	1549.2	1575.8	1602.4	1649.6	1663.9
47.5°	1465.2	1493.8	1524.6	1567.6	1586.1
50°	1381.1	1409.8	1442.6	1487.7	1504.1
52.5°	1293.0	1323.8	1356.5	1403.7	1416.0
55°	1202.9	1233.6	1270.5	1317.6	1329.9
57.5°	1110.6	1143.4	1182.4	1227.5	1239.7
60°	1016.4	1049.2	1090.2	1133.2	1137.3
62.5°	924.2	952.9	993.8	1034.8	1028.7
65°	825.8	852.5	895.5	926.2	913.9
67.5°	727.5	756.1	795.1	817.6	801.2
70°	627.0	657.8	688.5	704.9	688.5
72.5°	526.6	559.4	582.0	592.2	577.9
75°	426.2	459.0	473.4	485.7	475.4
77.5°	329.9	360.7	366.8	381.1	366.8
80°	235.7	264.3	268.4	282.8	268.4
82.5°	151.6	170.1	178.3	190.6	176.2
85°	82.0	92.2	98.4	104.5	86.1
87.5°	28.7	32.8	28.7	24.6	10.2
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	18.97	20.62	19.33	20.93	21.25	19.51	21.16	19.88	21.48	21.79
	3H	20.76	22.25	21.13	22.57	22.93	21.32	22.81	21.70	23.14	23.50
	4H	21.40	22.80	21.79	23.15	23.52	21.96	23.37	22.36	23.72	24.09
	6H	21.82	23.12	22.23	23.49	23.88	22.40	23.71	22.81	24.07	24.46
	8H	21.93	23.17	22.35	23.56	23.96	22.53	23.77	22.95	24.16	24.56
	12H	21.98	23.18	22.41	23.56	23.99	22.58	23.78	23.01	24.16	24.59
4H	2H	19.69	21.10	20.09	21.45	21.82	20.12	21.53	20.52	21.87	22.25
	3H	21.70	22.88	22.11	23.28	23.68	22.16	23.34	22.57	23.73	24.13
	4H	22.47	23.54	22.90	23.95	24.39	22.94	24.00	23.37	24.42	24.85
	6H	23.01	23.95	23.47	24.39	24.84	23.50	24.44	23.96	24.88	25.33
	8H	23.16	24.03	23.62	24.47	24.94	23.67	24.54	24.13	24.98	25.45
	12H	23.24	24.03	23.72	24.50	24.97	23.76	24.55	24.24	25.02	25.49
8H	4H	22.81	23.69	23.27	24.13	24.59	23.22	24.10	23.68	24.54	25.00
	6H	23.47	24.20	23.96	24.68	25.16	23.91	24.63	24.40	25.12	25.59
	8H	23.68	24.33	24.19	24.83	25.32	24.14	24.79	24.65	25.30	25.78
	12H	23.81	24.39	24.32	24.88	25.44	24.29	24.86	24.80	25.35	25.91
12H	4H	22.85	23.63	23.33	24.11	24.58	23.25	24.04	23.73	24.51	24.98
	6H	23.53	24.18	24.03	24.68	25.17	23.95	24.60	24.46	25.11	25.59
	8H	23.78	24.36	24.29	24.85	25.41	24.23	24.81	24.74	25.30	25.86