

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: P1584454

Luminaire Tested: 14CZSP-70-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584454
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-L835-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 6700 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

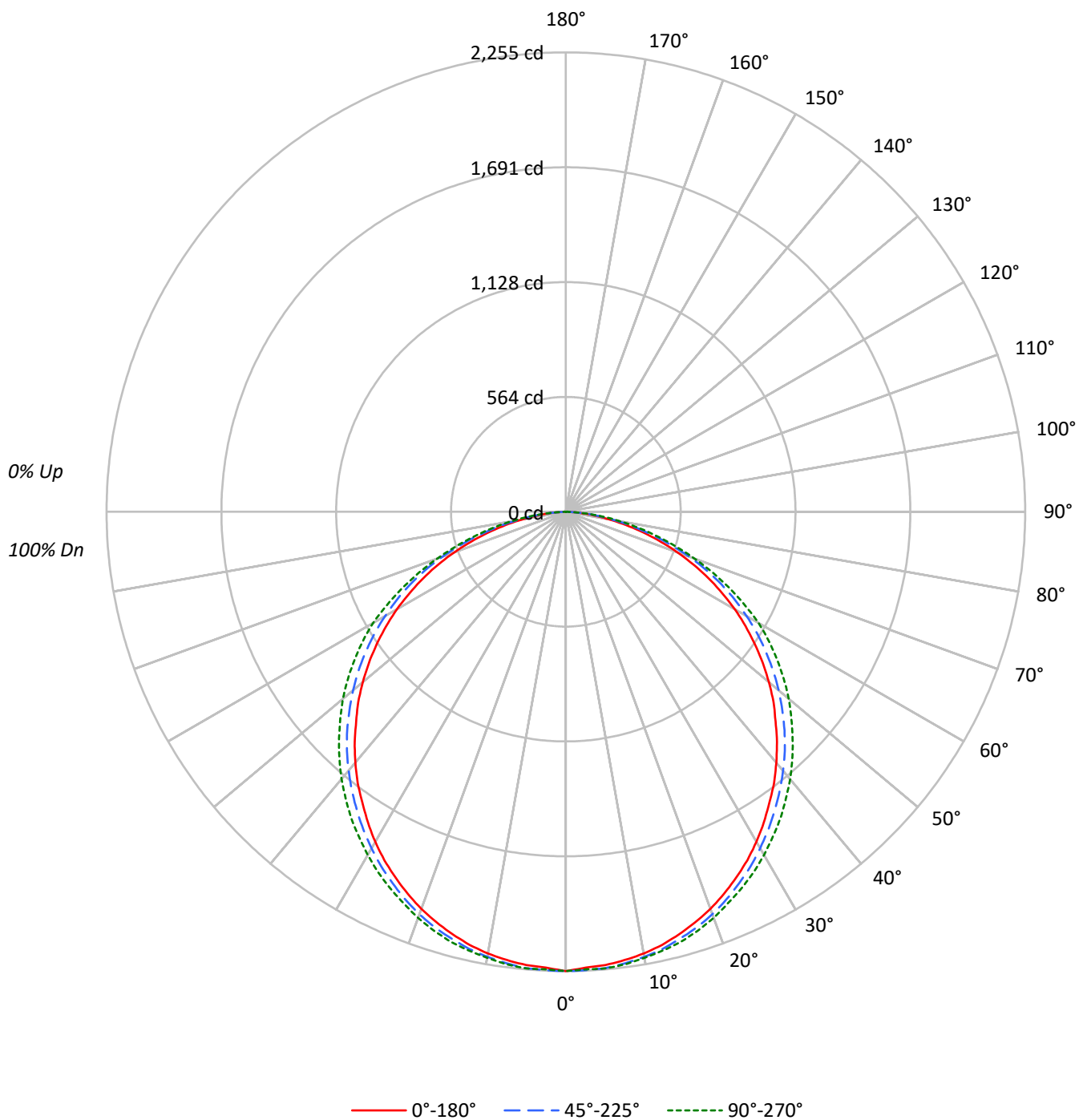
Lumens per Lamp: N/A
Luminaire Lumens: 6519.0 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	7598	7598	7598
5°	7556	7604	7611
10°	7535	7591	7607
15°	7491	7568	7622
20°	7439	7539	7608
25°	7363	7481	7585
30°	7280	7422	7568
35°	7164	7357	7555
40°	7070	7298	7534
45°	6936	7234	7503
50°	6821	7148	7490
55°	6657	7046	7441
60°	6453	6906	7365
65°	6166	6717	7062
70°	5748	6344	6626
75°	5135	5722	6046
80°	4209	4822	5288
85°	2818	3526	3932

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7503 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.6	3.3
10°-20°	612.2	9.4
20°-30°	927.1	14.2
30°-40°	1119.5	17.2
40°-50°	1170.0	17.9
50°-60°	1072.1	16.4
60°-70°	827.6	12.7
70°-80°	465.5	7.1
80°-90°	111.4	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°	1752.9	26.9
0°-40°	2872.4	44.1
0°-60°	5114.5	78.5
0°-90°	6519.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6519.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2255	2255	2255	2255	2255	
5°	2234	2250	2248	2250	2250	212
15°	2148	2165	2170	2178	2185	606
25°	1980	1998	2012	2023	2040	913
35°	1742	1764	1789	1813	1837	1091
45°	1456	1484	1518	1549	1575	1125
55°	1133	1163	1199	1237	1267	1012
65°	773	807	842	876	886	764
75°	394	431	440	458	464	418
85°	73	84	91	100	102	94
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2254.9	2254.9	2254.9	2254.9	2254.9
2.5°	2239.6	2256.8	2253.0	2258.8	2248.2
5°	2233.8	2250.1	2248.2	2250.1	2250.1
7.5°	2219.4	2236.7	2235.7	2238.6	2240.5
10°	2202.2	2218.5	2218.5	2221.3	2223.3
12.5°	2178.2	2195.4	2197.4	2202.2	2206.0
15°	2147.5	2164.7	2169.5	2178.2	2184.9
17.5°	2112.9	2131.1	2138.8	2147.5	2156.1
20°	2074.5	2090.8	2102.4	2109.1	2121.6
22.5°	2029.4	2047.7	2060.1	2066.9	2080.3
25°	1980.5	1997.8	2012.2	2022.7	2040.0
27.5°	1928.7	1946.0	1963.2	1975.7	1995.9
30°	1871.1	1889.3	1907.6	1926.8	1945.0
32.5°	1808.7	1829.8	1850.0	1871.1	1891.3
35°	1741.6	1763.6	1788.6	1812.6	1836.6
37.5°	1679.2	1699.4	1725.3	1751.2	1775.2
40°	1607.2	1629.3	1659.1	1687.8	1712.8
42.5°	1534.3	1558.3	1590.9	1618.8	1645.6
45°	1455.6	1484.4	1518.0	1548.7	1574.6
47.5°	1382.7	1407.7	1441.2	1474.8	1501.7
50°	1301.1	1329.0	1363.5	1399.0	1428.8
52.5°	1218.6	1247.4	1282.9	1318.4	1349.1
55°	1133.2	1163.0	1199.4	1236.9	1266.6
57.5°	1045.9	1077.6	1115.0	1152.4	1182.2
60°	957.6	989.3	1024.8	1066.1	1092.9
62.5°	865.5	901.0	934.6	973.0	989.3
65°	773.4	807.0	842.5	876.1	885.7
67.5°	679.4	713.9	745.6	767.6	780.1
70°	583.4	620.8	643.9	665.0	672.6
72.5°	488.4	525.8	539.3	559.4	567.1
75°	394.4	430.8	439.5	457.7	464.4
77.5°	303.2	336.8	339.7	360.8	366.5
80°	216.9	243.7	248.5	268.7	272.5
82.5°	139.1	158.3	165.0	182.3	188.1
85°	72.9	83.5	91.2	99.8	101.7
87.5°	24.0	29.7	24.9	25.9	24.0
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	18.76	20.41	19.12	20.72	21.04	19.30	20.95	19.66	21.26	21.58
	3H	20.53	22.03	20.91	22.35	22.71	21.15	22.65	21.53	22.97	23.33
	4H	21.16	22.57	21.56	22.91	23.29	21.82	23.23	22.22	23.58	23.95
	6H	21.57	22.87	21.98	23.24	23.63	22.30	23.60	22.71	23.97	24.36
	8H	21.67	22.92	22.10	23.31	23.71	22.45	23.69	22.87	24.08	24.48
	12H	21.72	22.92	22.15	23.30	23.73	22.53	23.72	22.96	24.11	24.53
4H	2H	19.48	20.89	19.88	21.24	21.61	19.90	21.31	20.30	21.66	22.03
	3H	21.48	22.66	21.89	23.05	23.45	21.98	23.16	22.39	23.55	23.95
	4H	22.23	23.30	22.67	23.72	24.15	22.77	23.84	23.20	24.25	24.69
	6H	22.76	23.70	23.22	24.14	24.59	23.38	24.31	23.83	24.75	25.20
	8H	22.90	23.78	23.36	24.22	24.68	23.57	24.44	24.03	24.88	25.35
	12H	22.98	23.77	23.46	24.24	24.71	23.69	24.47	24.17	24.95	25.42
8H	4H	22.57	23.45	23.03	23.89	24.35	23.05	23.92	23.51	24.36	24.83
	6H	23.21	23.94	23.70	24.43	24.90	23.76	24.49	24.25	24.97	25.45
	8H	23.41	24.06	23.92	24.57	25.05	24.02	24.67	24.53	25.17	25.66
	12H	23.54	24.12	24.05	24.61	25.17	24.20	24.78	24.71	25.27	25.83
12H	4H	22.61	23.39	23.09	23.87	24.34	23.07	23.86	23.55	24.33	24.80
	6H	23.27	23.92	23.77	24.42	24.91	23.80	24.45	24.31	24.96	25.44
	8H	23.52	24.09	24.02	24.58	25.14	24.11	24.68	24.61	25.17	25.73