

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: P1584461

Luminaire Tested: 14CZSP-70-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584461
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-70-L850
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 6700 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

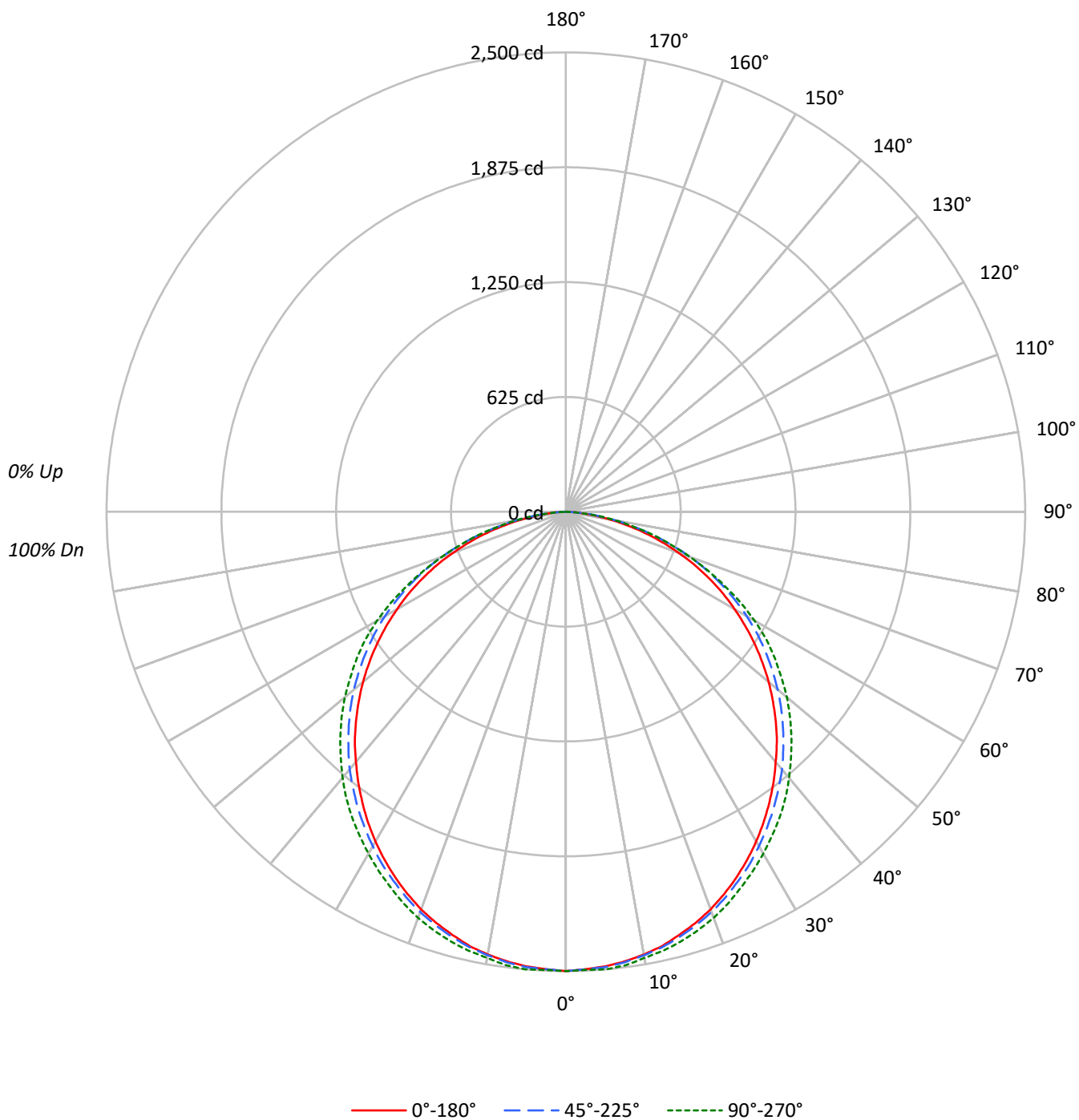
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7213.0 lumens
Efficiency: N/A
Efficacy: 135.1 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	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°	8423	8423	8423
5°	8398	8412	8455
10°	8370	8385	8436
15°	8317	8355	8444
20°	8259	8312	8435
25°	8165	8244	8388
30°	8062	8179	8362
35°	7943	8110	8348
40°	7816	8052	8315
45°	7704	7969	8274
50°	7555	7892	8228
55°	7374	7789	8153
60°	7148	7666	7998
65°	6871	7451	7604
70°	6447	7079	7079
75°	5791	6431	6459
80°	4772	5435	5435
85°	3306	3967	3472

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8274 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.8	3.3
10°-20°	678.2	9.4
20°-30°	1026.4	14.2
30°-40°	1239.1	17.2
40°-50°	1294.5	17.9
50°-60°	1185.9	16.4
60°-70°	914.3	12.7
70°-80°	515.8	7.2
80°-90°	122.1	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°	1941.3	26.9
0°-40°	3180.4	44.1
0°-60°	5660.8	78.5
0°-90°	7213.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7213.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2500	2500	2500	2500	2500	
5°	2483	2500	2487	2491	2500	236
15°	2384	2399	2395	2414	2421	673
25°	2196	2215	2218	2248	2256	1012
35°	1931	1957	1972	2014	2029	1208
45°	1617	1644	1672	1721	1736	1246
55°	1255	1287	1326	1375	1388	1121
65°	862	890	934	967	954	852
75°	445	479	494	507	496	472
85°	86	96	103	109	90	108
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2499.8	2499.8	2499.8	2499.8	2499.8
2.5°	2491.2	2508.3	2491.2	2499.8	2495.5
5°	2482.7	2499.8	2487.0	2491.2	2499.8
7.5°	2467.7	2484.8	2472.0	2478.4	2489.1
10°	2446.3	2463.4	2450.6	2461.3	2465.6
12.5°	2420.7	2435.6	2427.1	2439.9	2446.3
15°	2384.3	2399.3	2395.0	2414.3	2420.7
17.5°	2345.8	2362.9	2358.7	2382.2	2388.6
20°	2303.1	2318.0	2318.0	2339.4	2352.2
22.5°	2251.7	2268.8	2271.0	2294.5	2307.3
25°	2196.1	2215.4	2217.5	2247.5	2256.0
27.5°	2136.3	2155.5	2164.1	2196.1	2204.7
30°	2072.1	2091.4	2102.1	2138.4	2149.1
32.5°	2003.7	2027.2	2037.9	2078.5	2089.2
35°	1931.0	1956.6	1971.6	2014.4	2029.3
37.5°	1856.1	1881.8	1901.0	1945.9	1963.1
40°	1777.0	1804.8	1830.5	1875.4	1890.3
42.5°	1700.0	1727.8	1751.4	1798.4	1813.4
45°	1616.6	1644.4	1672.2	1721.4	1736.4
47.5°	1529.0	1558.9	1591.0	1635.9	1655.1
50°	1441.3	1471.2	1505.4	1552.5	1569.6
52.5°	1349.3	1381.4	1415.6	1464.8	1477.6
55°	1255.2	1287.3	1325.8	1375.0	1387.8
57.5°	1159.0	1193.2	1233.9	1280.9	1293.7
60°	1060.6	1094.9	1137.6	1182.5	1186.8
62.5°	964.4	994.4	1037.1	1079.9	1073.5
65°	861.8	889.6	934.5	966.6	953.7
67.5°	759.1	789.1	829.7	853.2	836.1
70°	654.4	686.4	718.5	735.6	718.5
72.5°	549.6	583.8	607.3	618.0	603.0
75°	444.8	479.0	494.0	506.8	496.1
77.5°	344.3	376.4	382.8	397.7	382.8
80°	245.9	275.9	280.1	295.1	280.1
82.5°	158.2	177.5	186.0	198.9	183.9
85°	85.5	96.2	102.6	109.1	89.8
87.5°	29.9	34.2	29.9	25.7	10.7
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	19.12	20.77	19.48	21.08	21.39	19.66	21.31	20.03	21.62	21.94
	3H	20.90	22.40	21.28	22.72	23.08	21.47	22.96	21.84	23.29	23.65
	4H	21.54	22.95	21.94	23.30	23.67	22.11	23.52	22.51	23.87	24.24
	6H	21.97	23.27	22.38	23.64	24.03	22.55	23.86	22.96	24.22	24.61
	8H	22.08	23.32	22.50	23.71	24.11	22.67	23.92	23.10	24.31	24.71
	12H	22.13	23.32	22.56	23.71	24.13	22.73	23.93	23.16	24.31	24.74
4H	2H	19.84	21.25	20.24	21.60	21.97	20.27	21.67	20.67	22.02	22.40
	3H	21.85	23.03	22.26	23.43	23.83	22.30	23.48	22.71	23.88	24.28
	4H	22.62	23.69	23.05	24.10	24.53	23.08	24.15	23.52	24.57	25.00
	6H	23.16	24.10	23.62	24.54	24.99	23.65	24.59	24.11	25.03	25.48
	8H	23.31	24.18	23.77	24.62	25.09	23.82	24.69	24.28	25.13	25.60
	12H	23.39	24.18	23.87	24.65	25.12	23.91	24.69	24.39	25.17	25.64
8H	4H	22.96	23.83	23.42	24.28	24.74	23.37	24.25	23.83	24.69	25.15
	6H	23.62	24.35	24.11	24.83	25.31	24.05	24.78	24.55	25.27	25.74
	8H	23.83	24.48	24.33	24.98	25.47	24.29	24.94	24.80	25.44	25.93
	12H	23.96	24.54	24.47	25.03	25.59	24.44	25.01	24.94	25.50	26.06
12H	4H	23.00	23.78	23.48	24.26	24.73	23.40	24.18	23.88	24.66	25.13
	6H	23.67	24.33	24.18	24.83	25.32	24.10	24.75	24.60	25.25	25.74
	8H	23.93	24.51	24.44	25.00	25.56	24.38	24.95	24.89	25.44	26.00