

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: P1584460

Luminaire Tested: 14CZSP-70-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584460
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-L850-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 6700 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

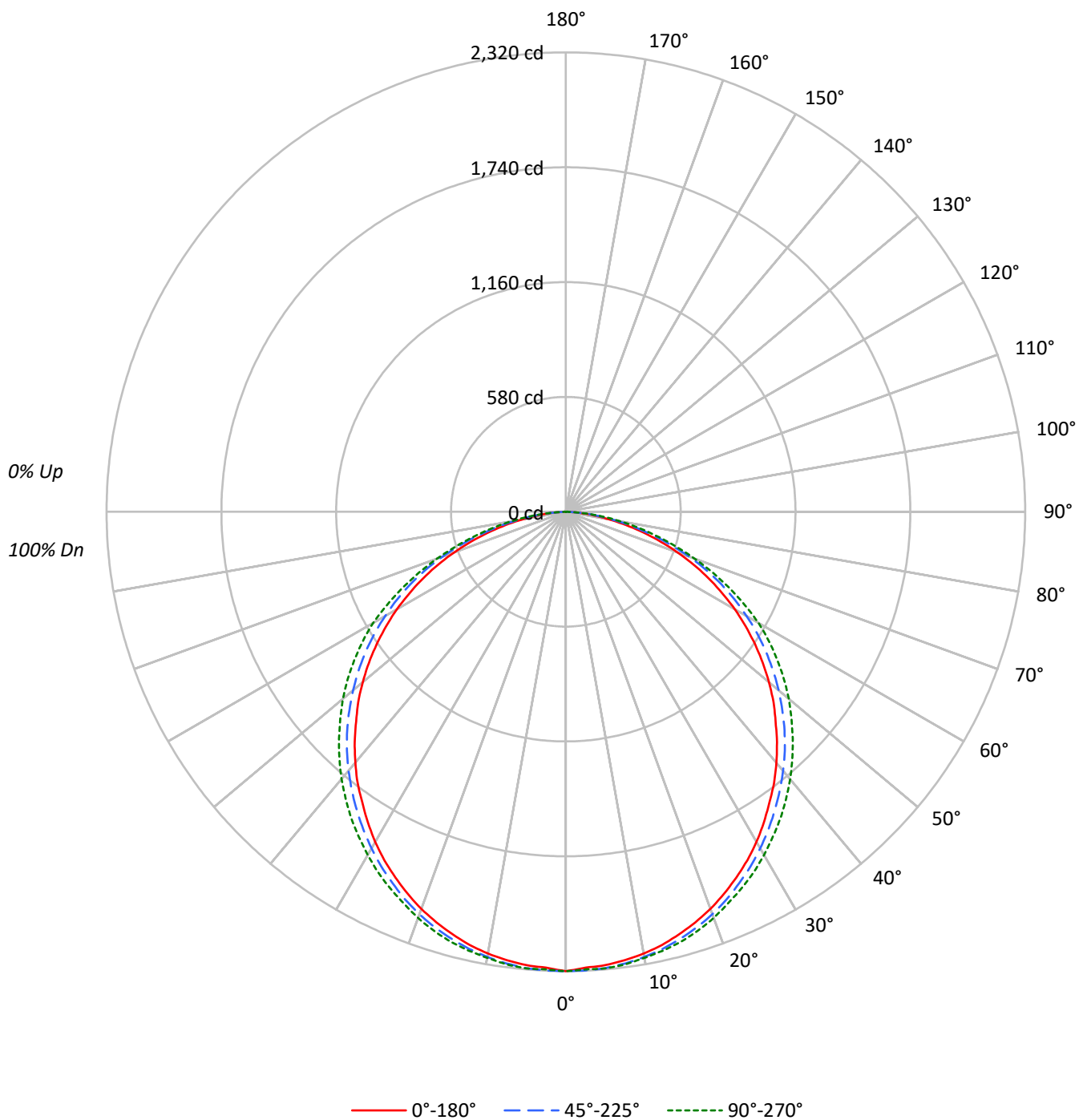
Lumens per Lamp: N/A
Luminaire Lumens: 6708.0 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7818	7818	7818
5°	7775	7825	7832
10°	7753	7811	7828
15°	7708	7788	7843
20°	7655	7757	7828
25°	7577	7698	7804
30°	7491	7637	7787
35°	7372	7570	7774
40°	7275	7509	7752
45°	7137	7443	7721
50°	7019	7355	7707
55°	6850	7251	7656
60°	6641	7106	7579
65°	6345	6912	7266
70°	5914	6527	6819
75°	5283	5887	6222
80°	4329	4962	5441
85°	2900	3626	4048

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7721 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.8	3.3
10°-20°	630.0	9.4
20°-30°	953.9	14.2
30°-40°	1152.0	17.2
40°-50°	1203.9	17.9
50°-60°	1103.2	16.4
60°-70°	851.6	12.7
70°-80°	479.0	7.1
80°-90°	114.6	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°	1803.7	26.9
0°-40°	2955.7	44.1
0°-60°	5262.8	78.5
0°-90°	6708.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6708.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2320	2320	2320	2320	2320	
5°	2299	2315	2313	2315	2315	218
15°	2210	2228	2232	2241	2248	624
25°	2038	2056	2070	2081	2099	939
35°	1792	1815	1840	1865	1890	1123
45°	1498	1528	1562	1594	1620	1158
55°	1166	1197	1234	1273	1303	1042
65°	796	830	867	902	911	786
75°	406	443	452	471	478	430
85°	75	86	94	103	105	96
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2320.3	2320.3	2320.3	2320.3	2320.3
2.5°	2304.5	2322.3	2318.3	2324.3	2313.4
5°	2298.6	2315.4	2313.4	2315.4	2315.4
7.5°	2283.8	2301.5	2300.6	2303.5	2305.5
10°	2266.0	2282.8	2282.8	2285.7	2287.7
12.5°	2241.3	2259.1	2261.1	2266.0	2269.9
15°	2209.7	2227.5	2232.4	2241.3	2248.2
17.5°	2174.2	2192.9	2200.8	2209.7	2218.6
20°	2134.7	2151.5	2163.3	2170.2	2183.1
22.5°	2088.3	2107.0	2119.9	2126.8	2140.6
25°	2037.9	2055.7	2070.5	2081.4	2099.1
27.5°	1984.6	2002.4	2020.1	2033.0	2053.7
30°	1925.4	1944.1	1962.9	1982.6	2001.4
32.5°	1861.2	1882.9	1903.6	1925.4	1946.1
35°	1792.1	1814.8	1840.4	1865.1	1889.8
37.5°	1727.9	1748.6	1775.3	1801.9	1826.6
40°	1653.8	1676.5	1707.2	1736.8	1762.4
42.5°	1578.8	1603.5	1637.0	1665.7	1693.3
45°	1497.8	1527.5	1562.0	1593.6	1620.3
47.5°	1422.8	1448.5	1483.0	1517.6	1545.2
50°	1338.9	1367.5	1403.0	1439.6	1470.2
52.5°	1254.0	1283.6	1320.1	1356.6	1388.2
55°	1166.1	1196.7	1234.2	1272.7	1303.3
57.5°	1076.2	1108.8	1147.3	1185.8	1216.4
60°	985.4	1018.0	1054.5	1097.0	1124.6
62.5°	890.6	927.1	961.7	1001.2	1018.0
65°	795.8	830.4	866.9	901.5	911.3
67.5°	699.1	734.6	767.2	789.9	802.7
70°	600.3	638.8	662.5	684.2	692.1
72.5°	502.6	541.1	554.9	575.6	583.5
75°	405.8	443.3	452.2	471.0	477.9
77.5°	312.0	346.6	349.5	371.2	377.2
80°	223.1	250.8	255.7	276.5	280.4
82.5°	143.2	162.9	169.8	187.6	193.5
85°	75.0	85.9	93.8	102.7	104.7
87.5°	24.7	30.6	25.7	26.7	24.7
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	18.86	20.51	19.22	20.82	21.14	19.40	21.05	19.76	21.36	21.68
	3H	20.63	22.13	21.01	22.45	22.81	21.25	22.75	21.63	23.07	23.43
	4H	21.26	22.67	21.66	23.01	23.39	21.92	23.33	22.32	23.68	24.05
	6H	21.67	22.97	22.08	23.34	23.73	22.40	23.70	22.81	24.07	24.46
	8H	21.77	23.02	22.20	23.41	23.80	22.55	23.79	22.97	24.18	24.58
	12H	21.82	23.02	22.25	23.40	23.83	22.63	23.82	23.06	24.20	24.63
4H	2H	19.58	20.99	19.98	21.34	21.71	20.00	21.41	20.40	21.76	22.13
	3H	21.58	22.76	21.99	23.15	23.55	22.08	23.26	22.48	23.65	24.05
	4H	22.33	23.40	22.76	23.81	24.25	22.87	23.94	23.30	24.35	24.79
	6H	22.86	23.80	23.31	24.24	24.69	23.47	24.41	23.93	24.85	25.30
	8H	23.00	23.87	23.46	24.32	24.78	23.67	24.54	24.12	24.98	25.45
	12H	23.08	23.86	23.56	24.34	24.81	23.79	24.57	24.27	25.05	25.52
8H	4H	22.67	23.54	23.13	23.99	24.45	23.15	24.02	23.61	24.46	24.93
	6H	23.31	24.04	23.80	24.52	25.00	23.86	24.59	24.35	25.07	25.55
	8H	23.51	24.16	24.02	24.67	25.15	24.12	24.77	24.63	25.27	25.76
	12H	23.64	24.22	24.15	24.71	25.27	24.30	24.87	24.81	25.36	25.92
12H	4H	22.71	23.49	23.19	23.97	24.44	23.17	23.96	23.65	24.43	24.90
	6H	23.37	24.02	23.87	24.52	25.01	23.90	24.55	24.41	25.05	25.54
	8H	23.62	24.19	24.12	24.68	25.24	24.20	24.78	24.71	25.27	25.83