

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: P1585856

Luminaire Tested: 14CZSP-SB-70-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-70-L840-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 6700 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

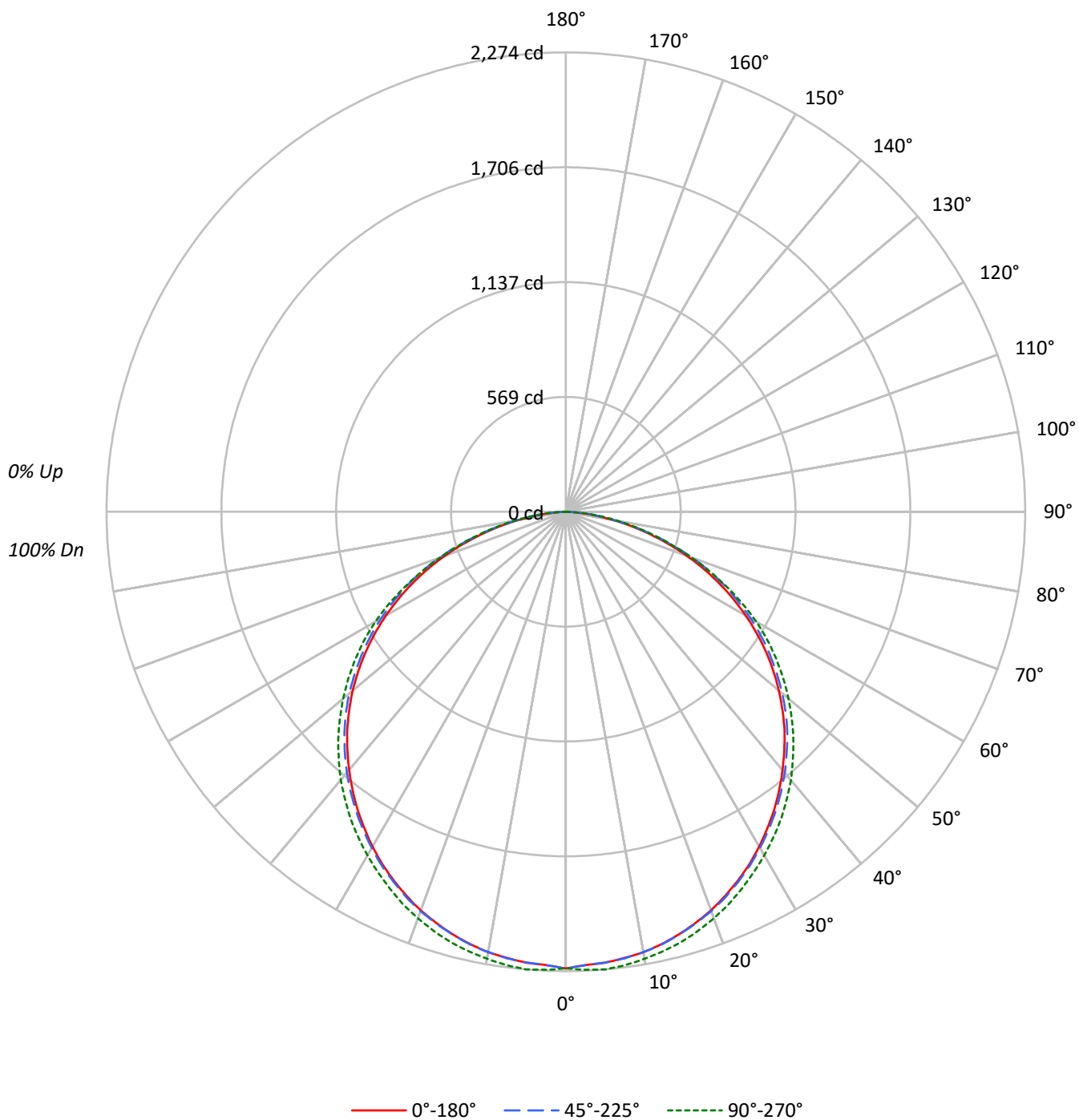
Lumens per Lamp: N/A
Luminaire Lumens: 6670.0 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1585856

CATALOG NUMBER: 14CZSP-SB-70-L840-S

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	99	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	43
6	70	56	47	40	68	55	46	40	53	46	40		52	45	40		50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7616	7616	7616
5°	7579	7576	7690
10°	7576	7573	7688
15°	7553	7561	7692
20°	7530	7545	7680
25°	7492	7511	7655
30°	7447	7479	7642
35°	7399	7445	7638
40°	7341	7417	7624
45°	7296	7388	7593
50°	7223	7335	7544
55°	7110	7242	7470
60°	6938	7117	7337
65°	6677	6930	7003
70°	6279	6570	6530
75°	5637	5877	5917
80°	4657	4896	5152
85°	3120	3634	3831

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7593 cd/sqm

TEST NUMBER: P1585856

CATALOG NUMBER: 14CZSP-SB-70-L840-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.2	3.2
10°-20°	615.8	9.2
20°-30°	937.7	14.1
30°-40°	1141.2	17.1
40°-50°	1203.0	18.0
50°-60°	1108.1	16.6
60°-70°	855.8	12.8
70°-80°	478.9	7.2
80°-90°	115.4	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°	1767.6	26.5
0°-40°	2908.8	43.6
0°-60°	5219.9	78.3
0°-90°	6670.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6670.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2260	2260	2260	2260	2260	
5°	2241	2272	2240	2243	2274	213
15°	2165	2195	2167	2180	2205	611
25°	2015	2044	2020	2034	2059	929
35°	1799	1825	1810	1832	1857	1125
45°	1531	1552	1550	1574	1593	1180
55°	1210	1231	1233	1258	1272	1080
65°	838	862	869	877	878	827
75°	433	460	451	450	454	459
85°	81	89	94	105	99	103
90°	0	0	0	0	0	

TEST NUMBER: P1585856

CATALOG NUMBER: 14CZSP-SB-70-L840-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2260.2	2260.2	2260.2	2260.2	2260.2
2.5°	2245.9	2278.6	2245.9	2251.0	2269.4
5°	2240.8	2272.5	2239.8	2242.9	2273.5
7.5°	2227.5	2260.2	2229.6	2233.7	2263.3
10°	2214.3	2243.9	2213.2	2218.3	2246.9
12.5°	2191.8	2222.4	2193.8	2200.0	2228.6
15°	2165.2	2194.9	2167.3	2179.5	2205.1
17.5°	2134.6	2163.2	2136.6	2150.9	2175.4
20°	2099.9	2127.4	2104.0	2114.2	2141.7
22.5°	2059.0	2087.6	2065.1	2074.3	2104.0
25°	2015.1	2043.7	2020.2	2033.5	2059.0
27.5°	1967.1	1994.7	1974.2	1990.6	2013.1
30°	1914.0	1940.5	1922.2	1941.6	1964.0
32.5°	1856.8	1885.4	1867.0	1889.5	1911.9
35°	1798.6	1825.1	1809.8	1832.3	1856.8
37.5°	1735.3	1760.8	1749.5	1773.0	1795.5
40°	1668.9	1697.5	1686.2	1710.7	1733.2
42.5°	1600.4	1628.0	1618.8	1644.4	1663.8
45°	1531.0	1552.4	1550.4	1573.9	1593.3
47.5°	1454.4	1480.9	1476.9	1500.3	1517.7
50°	1377.8	1399.2	1399.2	1421.7	1439.1
52.5°	1295.1	1316.5	1316.5	1343.1	1357.4
55°	1210.3	1230.7	1232.8	1258.3	1271.6
57.5°	1120.4	1141.9	1145.9	1171.5	1183.7
60°	1029.5	1049.9	1056.1	1081.6	1088.7
62.5°	934.5	959.0	962.1	982.5	986.6
65°	837.5	862.0	869.2	877.3	878.3
67.5°	738.4	764.0	771.1	771.1	771.1
70°	637.3	660.8	666.9	662.8	662.8
72.5°	535.2	560.7	557.6	553.6	555.6
75°	433.0	459.6	451.4	450.4	454.5
77.5°	335.0	360.5	347.3	355.4	356.4
80°	240.0	259.4	252.3	264.5	265.5
82.5°	154.2	166.5	168.5	178.7	175.7
85°	80.7	88.9	94.0	105.2	99.1
87.5°	25.5	33.7	30.6	35.7	27.6
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1585856

CATALOG NUMBER: 14CZSP-SB-70-L840-S

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	19.09	20.74	19.45	21.06	21.37	19.31	20.96	19.67	21.27	21.59
	3H	20.91	22.41	21.29	22.73	23.09	21.11	22.60	21.48	22.93	23.29
	4H	21.56	22.97	21.95	23.32	23.69	21.74	23.16	22.14	23.50	23.88
	6H	21.98	23.29	22.39	23.66	24.05	22.20	23.51	22.61	23.87	24.26
	8H	22.09	23.34	22.52	23.73	24.13	22.33	23.58	22.75	23.97	24.37
	12H	22.15	23.35	22.58	23.73	24.16	22.40	23.60	22.83	23.98	24.41
4H	2H	19.77	21.18	20.17	21.53	21.90	19.94	21.35	20.34	21.70	22.07
	3H	21.81	22.99	22.22	23.39	23.79	21.95	23.14	22.36	23.53	23.93
	4H	22.59	23.66	23.02	24.07	24.51	22.71	23.78	23.14	24.19	24.63
	6H	23.14	24.08	23.59	24.52	24.97	23.28	24.22	23.74	24.66	25.12
	8H	23.28	24.16	23.74	24.60	25.07	23.46	24.34	23.92	24.78	25.24
	12H	23.37	24.16	23.85	24.63	25.10	23.57	24.36	24.05	24.84	25.30
8H	4H	22.90	23.77	23.36	24.22	24.68	23.00	23.88	23.46	24.32	24.79
	6H	23.56	24.28	24.05	24.77	25.25	23.69	24.41	24.18	24.90	25.38
	8H	23.76	24.41	24.27	24.92	25.41	23.92	24.58	24.43	25.08	25.57
	12H	23.90	24.47	24.40	24.96	25.52	24.10	24.68	24.61	25.17	25.73
12H	4H	22.93	23.72	23.41	24.19	24.66	23.03	23.82	23.51	24.30	24.76
	6H	23.60	24.26	24.11	24.76	25.25	23.73	24.38	24.23	24.89	25.37
	8H	23.86	24.43	24.36	24.92	25.48	24.02	24.59	24.52	25.08	25.64