

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: P1585874

Luminaire Tested: 14CZSP-SB-70VHE-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585874
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-70VHE-L835-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 7200 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

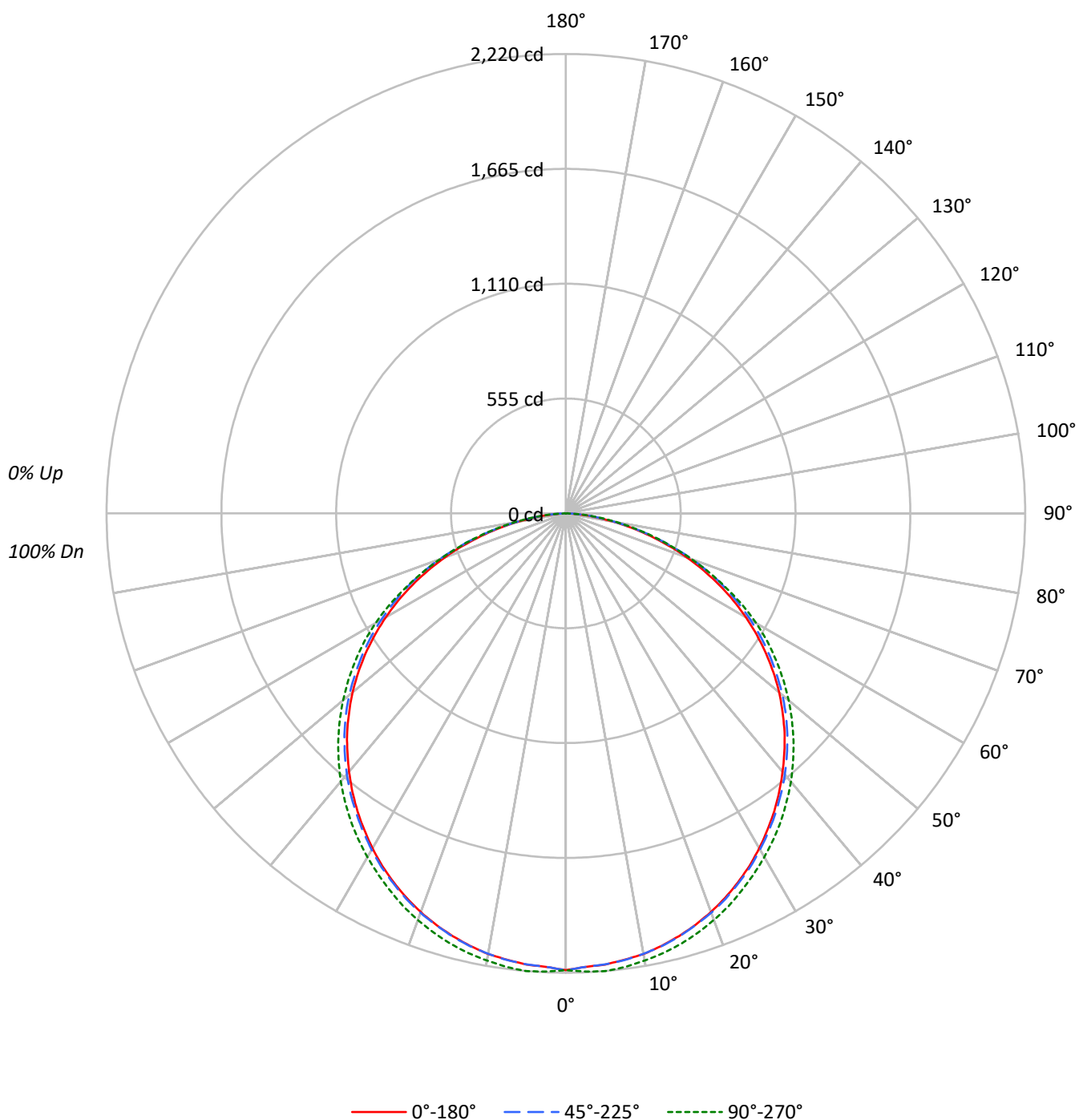
Lumens per Lamp: N/A
Luminaire Lumens: 6514.0 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 51.9
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: P1585874

CATALOG NUMBER: 14CZSP-SB-70VHE-L835-S

Luminous Intensity Polar Plot



TEST NUMBER: P1585874

CATALOG NUMBER: 14CZSP-SB-70VHE-L835-S

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°	7438	7438	7438
5°	7402	7399	7510
10°	7399	7396	7508
15°	7377	7384	7512
20°	7354	7368	7500
25°	7317	7335	7476
30°	7273	7304	7463
35°	7225	7271	7459
40°	7169	7244	7446
45°	7125	7215	7415
50°	7054	7163	7367
55°	6944	7073	7295
60°	6776	6951	7166
65°	6521	6768	6839
70°	6132	6417	6377
75°	5506	5740	5779
80°	4548	4781	5032
85°	3047	3549	3742

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7415 cd/sqm

TEST NUMBER: P1585874

CATALOG NUMBER: 14CZSP-SB-70VHE-L835-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.2	3.2
10°-20°	601.4	9.2
20°-30°	915.7	14.1
30°-40°	1114.5	17.1
40°-50°	1174.9	18.0
50°-60°	1082.1	16.6
60°-70°	835.8	12.8
70°-80°	467.7	7.2
80°-90°	112.7	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°	1726.3	26.5
0°-40°	2840.8	43.6
0°-60°	5097.8	78.3
0°-90°	6514.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6514.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2207	2207	2207	2207	2207	
5°	2188	2219	2187	2190	2220	208
15°	2115	2144	2117	2129	2154	597
25°	1968	1996	1973	1986	2011	907
35°	1756	1782	1768	1789	1813	1099
45°	1495	1516	1514	1537	1556	1152
55°	1182	1202	1204	1229	1242	1055
65°	818	842	849	857	858	808
75°	423	449	441	440	444	448
85°	79	87	92	103	97	101
90°	0	0	0	0	0	

TEST NUMBER: P1585874

CATALOG NUMBER: 14CZSP-SB-70VHE-L835-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2207.4	2207.4	2207.4	2207.4	2207.4
2.5°	2193.4	2225.3	2193.4	2198.4	2216.3
5°	2188.4	2219.3	2187.4	2190.4	2220.3
7.5°	2175.4	2207.4	2177.4	2181.4	2210.3
10°	2162.5	2191.4	2161.5	2166.5	2194.4
12.5°	2140.5	2170.4	2142.5	2148.5	2176.4
15°	2114.6	2143.5	2116.6	2128.6	2153.5
17.5°	2084.7	2112.6	2086.7	2100.6	2124.6
20°	2050.8	2077.7	2054.7	2064.7	2091.7
22.5°	2010.9	2038.8	2016.8	2025.8	2054.7
25°	1968.0	1995.9	1973.0	1985.9	2010.9
27.5°	1921.1	1948.0	1928.1	1944.0	1966.0
30°	1869.2	1895.2	1877.2	1896.2	1918.1
32.5°	1813.4	1841.3	1823.3	1845.3	1867.2
35°	1756.5	1782.4	1767.5	1789.4	1813.4
37.5°	1694.7	1719.6	1708.6	1731.6	1753.5
40°	1629.8	1657.8	1646.8	1670.7	1692.7
42.5°	1563.0	1589.9	1581.0	1605.9	1624.8
45°	1495.2	1516.1	1514.1	1537.1	1556.0
47.5°	1420.4	1446.3	1442.3	1465.3	1482.2
50°	1345.6	1366.5	1366.5	1388.4	1405.4
52.5°	1264.8	1285.7	1285.7	1311.6	1325.6
55°	1182.0	1201.9	1203.9	1228.9	1241.8
57.5°	1094.2	1115.1	1119.1	1144.1	1156.0
60°	1005.4	1025.4	1031.4	1056.3	1063.3
62.5°	912.7	936.6	939.6	959.5	963.5
65°	817.9	841.8	848.8	856.8	857.8
67.5°	721.2	746.1	753.1	753.1	753.1
70°	622.4	645.3	651.3	647.3	647.3
72.5°	522.7	547.6	544.6	540.6	542.6
75°	422.9	448.9	440.9	439.9	443.9
77.5°	327.2	352.1	339.1	347.1	348.1
80°	234.4	253.4	246.4	258.3	259.3
82.5°	150.6	162.6	164.6	174.6	171.6
85°	78.8	86.8	91.8	102.7	96.8
87.5°	24.9	32.9	29.9	34.9	26.9
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1585874

CATALOG NUMBER: 14CZSP-SB-70VHE-L835-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	19.01	20.66	19.37	20.98	21.29	19.22	20.88	19.59	21.19	21.51
	3H	20.83	22.33	21.20	22.65	23.01	21.02	22.52	21.40	22.85	23.21
	4H	21.47	22.89	21.87	23.23	23.61	21.66	23.07	22.06	23.42	23.80
	6H	21.90	23.21	22.31	23.58	23.97	22.11	23.42	22.52	23.79	24.18
	8H	22.01	23.26	22.44	23.65	24.05	22.25	23.50	22.67	23.89	24.28
	12H	22.06	23.26	22.49	23.65	24.07	22.32	23.52	22.75	23.90	24.33
4H	2H	19.69	21.10	20.08	21.44	21.82	19.86	21.27	20.25	21.61	21.99
	3H	21.73	22.91	22.14	23.31	23.71	21.87	23.05	22.28	23.45	23.85
	4H	22.51	23.58	22.94	23.99	24.43	22.63	23.70	23.06	24.11	24.55
	6H	23.06	23.99	23.51	24.43	24.89	23.20	24.14	23.65	24.58	25.03
	8H	23.20	24.08	23.66	24.52	24.99	23.38	24.25	23.84	24.69	25.16
	12H	23.29	24.07	23.76	24.55	25.02	23.49	24.28	23.97	24.75	25.22
8H	4H	22.81	23.69	23.27	24.13	24.60	22.92	23.80	23.38	24.24	24.71
	6H	23.47	24.20	23.97	24.69	25.16	23.60	24.33	24.10	24.82	25.29
	8H	23.68	24.33	24.19	24.84	25.32	23.84	24.50	24.35	25.00	25.49
	12H	23.81	24.39	24.32	24.88	25.44	24.02	24.60	24.53	25.09	25.65
12H	4H	22.84	23.63	23.32	24.11	24.58	22.95	23.74	23.43	24.21	24.68
	6H	23.52	24.17	24.03	24.68	25.16	23.64	24.30	24.15	24.81	25.29
	8H	23.77	24.35	24.28	24.84	25.40	23.94	24.51	24.44	25.00	25.56