

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: P1584455

Luminaire Tested: 14CZSP-70-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584455
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-L835
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 6700 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

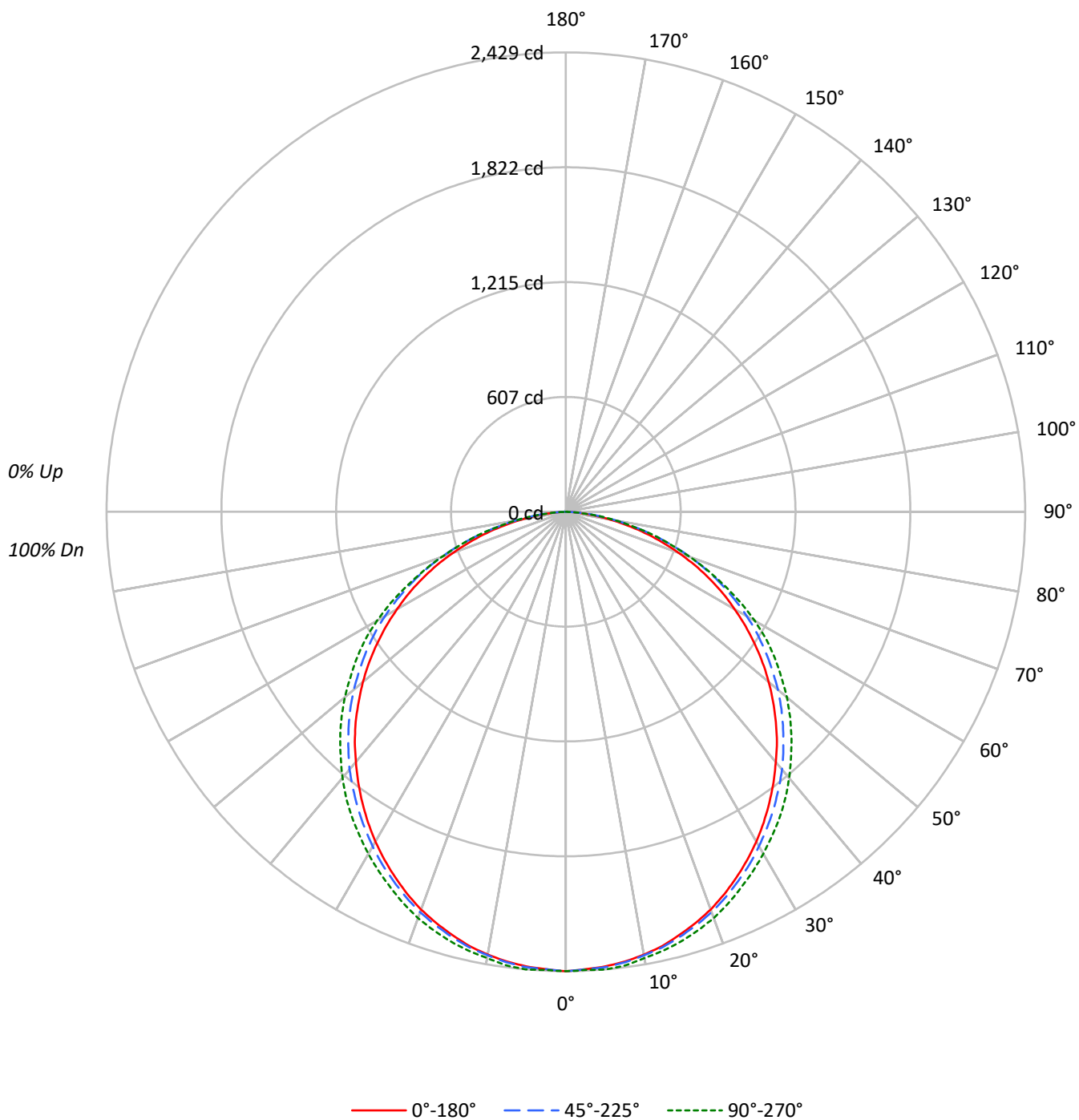
Lumens per Lamp: N/A
Luminaire Lumens: 7010.0 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1584455

CATALOG NUMBER: 14CZSP-70-L835

Luminous Intensity Polar Plot



TEST NUMBER: P1584455

CATALOG NUMBER: 14CZSP-70-L835

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°	8186	8186	8186
5°	8161	8175	8217
10°	8135	8149	8199
15°	8083	8120	8207
20°	8026	8078	8197
25°	7935	8012	8152
30°	7835	7949	8126
35°	7719	7882	8113
40°	7597	7825	8081
45°	7487	7745	8041
50°	7343	7670	7996
55°	7167	7570	7924
60°	6947	7451	7773
65°	6677	7241	7390
70°	6265	6880	6880
75°	5628	6250	6276
80°	4638	5282	5282
85°	3213	3858	3375

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8041 cd/sqm

TEST NUMBER: P1584455

CATALOG NUMBER: 14CZSP-70-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.1	3.3
10°-20°	659.1	9.4
20°-30°	997.5	14.2
30°-40°	1204.2	17.2
40°-50°	1258.1	17.9
50°-60°	1152.5	16.4
60°-70°	888.6	12.7
70°-80°	501.3	7.2
80°-90°	118.7	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°	1886.7	26.9
0°-40°	3090.9	44.1
0°-60°	5501.5	78.5
0°-90°	7010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7010.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2429	2429	2429	2429	2429	
5°	2413	2429	2417	2421	2429	229
15°	2317	2332	2328	2346	2352	654
25°	2134	2153	2155	2184	2192	983
35°	1877	1902	1916	1958	1972	1174
45°	1571	1598	1625	1673	1688	1211
55°	1220	1251	1288	1336	1349	1090
65°	838	864	908	939	927	828
75°	432	466	480	492	482	458
85°	83	94	100	106	87	105
90°	0	0	0	0	0	

TEST NUMBER: P1584455

CATALOG NUMBER: 14CZSP-70-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2429.4	2429.4	2429.4	2429.4	2429.4
2.5°	2421.1	2437.8	2421.1	2429.4	2425.3
5°	2412.8	2429.4	2417.0	2421.1	2429.4
7.5°	2398.3	2414.9	2402.4	2408.7	2419.0
10°	2377.5	2394.1	2381.6	2392.0	2396.2
12.5°	2352.5	2367.1	2358.8	2371.2	2377.5
15°	2317.2	2331.8	2327.6	2346.3	2352.5
17.5°	2279.8	2296.4	2292.3	2315.1	2321.4
20°	2238.2	2252.8	2252.8	2273.6	2286.0
22.5°	2188.4	2205.0	2207.1	2229.9	2242.4
25°	2134.3	2153.0	2155.1	2184.2	2192.5
27.5°	2076.1	2094.8	2103.2	2134.3	2142.6
30°	2013.8	2032.5	2042.9	2078.2	2088.6
32.5°	1947.3	1970.2	1980.5	2020.0	2030.4
35°	1876.6	1901.6	1916.1	1957.7	1972.2
37.5°	1803.9	1828.8	1847.5	1891.2	1907.8
40°	1727.0	1754.0	1779.0	1822.6	1837.1
42.5°	1652.2	1679.2	1702.1	1747.8	1762.3
45°	1571.1	1598.2	1625.2	1673.0	1687.5
47.5°	1485.9	1515.0	1546.2	1589.8	1608.5
50°	1400.7	1429.8	1463.1	1508.8	1525.4
52.5°	1311.4	1342.5	1375.8	1423.6	1436.1
55°	1219.9	1251.1	1288.5	1336.3	1348.8
57.5°	1126.4	1159.6	1199.1	1244.9	1257.3
60°	1030.8	1064.0	1105.6	1149.3	1153.4
62.5°	937.3	966.4	1007.9	1049.5	1043.3
65°	837.5	864.5	908.2	939.4	926.9
67.5°	737.8	766.9	806.3	829.2	812.6
70°	635.9	667.1	698.3	714.9	698.3
72.5°	534.1	567.4	590.2	600.6	586.1
75°	432.3	465.5	480.1	492.5	482.1
77.5°	334.6	365.8	372.0	386.5	372.0
80°	239.0	268.1	272.2	286.8	272.2
82.5°	153.8	172.5	180.8	193.3	178.7
85°	83.1	93.5	99.8	106.0	87.3
87.5°	29.1	33.3	29.1	24.9	10.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584455

CATALOG NUMBER: 14CZSP-70-L835

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	19.02	20.67	19.38	20.98	21.29	19.56	21.21	19.93	21.53	21.84
	3H	20.80	22.30	21.18	22.62	22.98	21.37	22.86	21.74	23.19	23.55
	4H	21.44	22.85	21.84	23.20	23.57	22.01	23.42	22.41	23.77	24.14
	6H	21.87	23.17	22.28	23.54	23.93	22.45	23.76	22.86	24.12	24.51
	8H	21.98	23.22	22.40	23.61	24.01	22.58	23.82	23.00	24.21	24.61
	12H	22.03	23.23	22.46	23.61	24.04	22.63	23.83	23.06	24.21	24.64
4H	2H	19.74	21.15	20.14	21.50	21.87	20.17	21.58	20.57	21.92	22.30
	3H	21.75	22.93	22.16	23.33	23.73	22.21	23.39	22.61	23.78	24.18
	4H	22.52	23.59	22.95	24.00	24.43	22.99	24.05	23.42	24.47	24.90
	6H	23.06	24.00	23.52	24.44	24.89	23.55	24.49	24.01	24.93	25.38
	8H	23.21	24.08	23.67	24.52	24.99	23.72	24.59	24.18	25.03	25.50
	12H	23.29	24.08	23.77	24.55	25.02	23.81	24.60	24.29	25.07	25.54
8H	4H	22.86	23.73	23.32	24.18	24.64	23.27	24.15	23.73	24.59	25.05
	6H	23.52	24.25	24.01	24.73	25.21	23.96	24.68	24.45	25.17	25.64
	8H	23.73	24.38	24.23	24.88	25.37	24.19	24.84	24.70	25.34	25.83
	12H	23.86	24.44	24.37	24.93	25.49	24.34	24.91	24.84	25.40	25.96
12H	4H	22.90	23.68	23.38	24.16	24.63	23.30	24.08	23.78	24.56	25.03
	6H	23.58	24.23	24.08	24.73	25.22	24.00	24.65	24.50	25.15	25.64
	8H	23.83	24.41	24.34	24.90	25.46	24.28	24.86	24.79	25.35	25.91