

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: P1584456

Luminaire Tested: 14CZSP-70-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584456
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-L840-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 6700 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

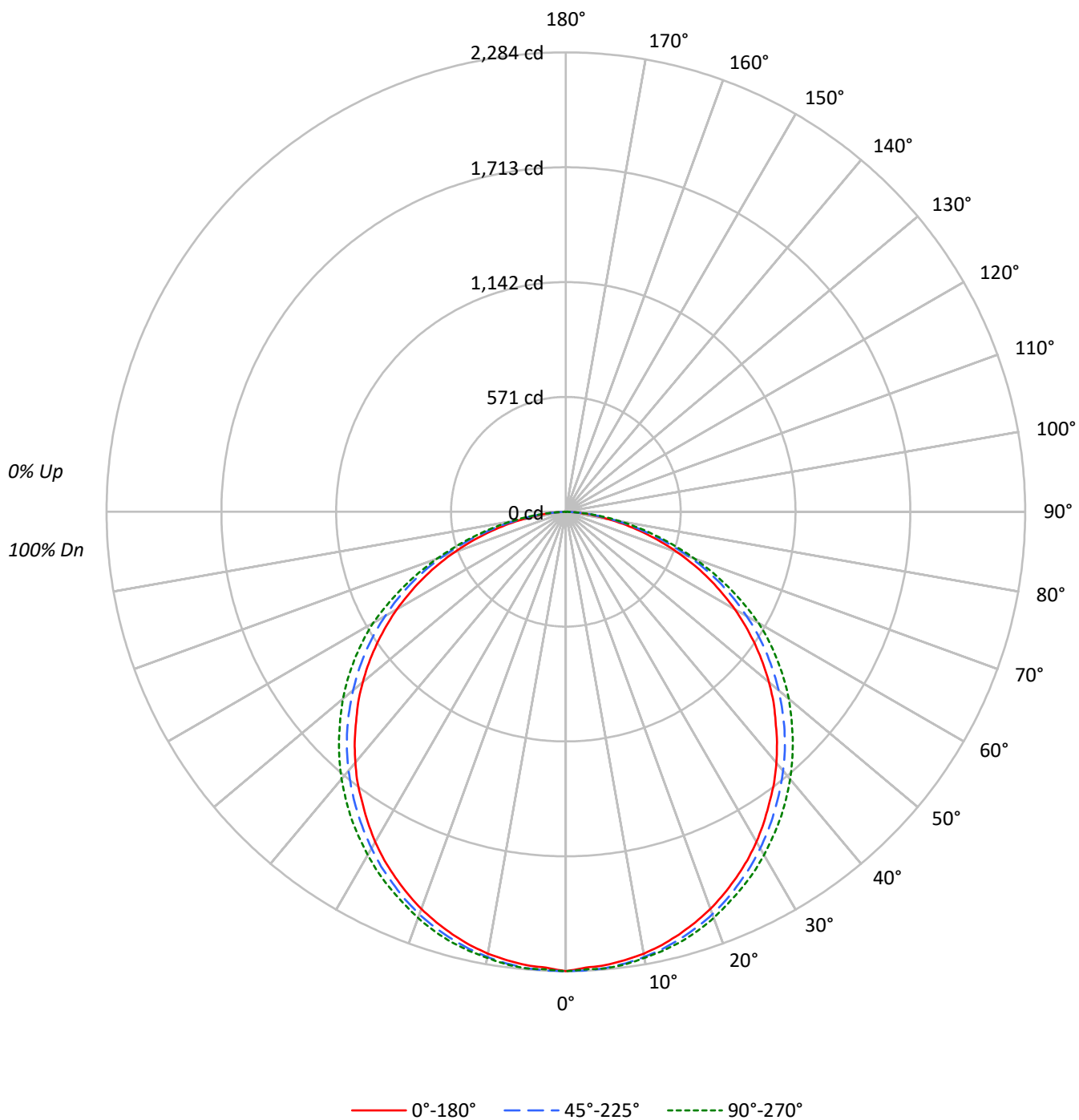
Lumens per Lamp: N/A
Luminaire Lumens: 6604.0 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1584456

CATALOG NUMBER: 14CZSP-70-L840-S

Luminous Intensity Polar Plot



TEST NUMBER: P1584456

CATALOG NUMBER: 14CZSP-70-L840-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	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	52		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	28		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°	7697	7697	7697
5°	7654	7704	7710
10°	7633	7690	7706
15°	7589	7667	7721
20°	7536	7637	7707
25°	7459	7579	7683
30°	7375	7519	7667
35°	7257	7453	7653
40°	7162	7393	7632
45°	7027	7328	7601
50°	6910	7241	7587
55°	6744	7138	7538
60°	6538	6997	7462
65°	6247	6805	7153
70°	5823	6425	6713
75°	5201	5796	6125
80°	4263	4886	5358
85°	2857	3568	3982

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7601 cd/sqm

TEST NUMBER: P1584456

CATALOG NUMBER: 14CZSP-70-L840-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.4	3.3
10°-20°	620.2	9.4
20°-30°	939.1	14.2
30°-40°	1134.1	17.2
40°-50°	1185.2	17.9
50°-60°	1086.1	16.4
60°-70°	838.4	12.7
70°-80°	471.6	7.1
80°-90°	112.8	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°	1775.7	26.9
0°-40°	2909.9	44.1
0°-60°	5181.2	78.5
0°-90°	6604.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6604.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2284	2284	2284	2284	2284	
5°	2263	2280	2278	2280	2280	215
15°	2176	2193	2198	2207	2213	614
25°	2006	2024	2038	2049	2067	925
35°	1764	1787	1812	1836	1860	1105
45°	1475	1504	1538	1569	1595	1140
55°	1148	1178	1215	1253	1283	1026
65°	784	818	854	888	897	774
75°	400	436	445	464	470	424
85°	74	85	92	101	103	95
90°	0	0	0	0	0	

TEST NUMBER: P1584456

CATALOG NUMBER: 14CZSP-70-L840-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2284.3	2284.3	2284.3	2284.3	2284.3
2.5°	2268.8	2286.3	2282.4	2288.2	2277.5
5°	2262.9	2279.5	2277.5	2279.5	2279.5
7.5°	2248.4	2265.9	2264.9	2267.8	2269.7
10°	2230.9	2247.4	2247.4	2250.3	2252.3
12.5°	2206.6	2224.1	2226.0	2230.9	2234.8
15°	2175.5	2193.0	2197.8	2206.6	2213.4
17.5°	2140.5	2158.9	2166.7	2175.5	2184.2
20°	2101.6	2118.1	2129.8	2136.6	2149.2
22.5°	2055.9	2074.4	2087.0	2093.8	2107.4
25°	2006.3	2023.8	2038.4	2049.1	2066.6
27.5°	1953.8	1971.3	1988.8	2001.5	2021.9
30°	1895.5	1914.0	1932.4	1951.9	1970.4
32.5°	1832.3	1853.7	1874.1	1895.5	1915.9
35°	1764.3	1786.6	1811.9	1836.2	1860.5
37.5°	1701.1	1721.5	1747.8	1774.0	1798.3
40°	1628.2	1650.5	1680.7	1709.8	1735.1
42.5°	1554.3	1578.6	1611.7	1639.9	1667.1
45°	1474.6	1503.8	1537.8	1568.9	1595.1
47.5°	1400.7	1426.0	1460.0	1494.0	1521.3
50°	1318.1	1346.3	1381.3	1417.3	1447.4
52.5°	1234.5	1263.7	1299.6	1335.6	1366.7
55°	1148.0	1178.1	1215.1	1253.0	1283.1
57.5°	1059.5	1091.6	1129.5	1167.4	1197.6
60°	970.1	1002.2	1038.2	1080.0	1107.2
62.5°	876.8	912.8	946.8	985.7	1002.2
65°	783.5	817.5	853.5	887.5	897.2
67.5°	688.2	723.2	755.3	777.6	790.3
70°	591.0	628.9	652.2	673.6	681.4
72.5°	494.8	532.7	546.3	566.7	574.5
75°	399.5	436.5	445.2	463.7	470.5
77.5°	307.2	341.2	344.1	365.5	371.3
80°	219.7	246.9	251.8	272.2	276.1
82.5°	140.9	160.4	167.2	184.7	190.5
85°	73.9	84.6	92.3	101.1	103.0
87.5°	24.3	30.1	25.3	26.2	24.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584456

CATALOG NUMBER: 14CZSP-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	18.80	20.45	19.17	20.77	21.08	19.34	20.99	19.71	21.31	21.62
	3H	20.58	22.07	20.96	22.40	22.76	21.20	22.69	21.58	23.02	23.38
	4H	21.20	22.61	21.60	22.96	23.33	21.87	23.28	22.27	23.62	24.00
	6H	21.61	22.92	22.02	23.28	23.67	22.35	23.65	22.76	24.01	24.40
	8H	21.72	22.96	22.14	23.35	23.75	22.49	23.74	22.92	24.13	24.52
	12H	21.77	22.96	22.20	23.34	23.77	22.57	23.77	23.00	24.15	24.58
4H	2H	19.53	20.93	19.93	21.28	21.66	19.95	21.36	20.35	21.70	22.08
	3H	21.52	22.70	21.93	23.10	23.50	22.02	23.20	22.43	23.60	24.00
	4H	22.28	23.35	22.71	23.76	24.20	22.82	23.89	23.25	24.30	24.73
	6H	22.81	23.74	23.26	24.18	24.64	23.42	24.35	23.87	24.79	25.25
	8H	22.95	23.82	23.41	24.26	24.73	23.61	24.48	24.07	24.93	25.39
	12H	23.03	23.81	23.50	24.29	24.75	23.73	24.52	24.21	24.99	25.46
8H	4H	22.62	23.49	23.08	23.93	24.40	23.09	23.97	23.55	24.41	24.87
	6H	23.26	23.98	23.75	24.47	24.94	23.81	24.53	24.30	25.02	25.49
	8H	23.46	24.11	23.97	24.61	25.10	24.06	24.71	24.57	25.22	25.71
	12H	23.59	24.16	24.09	24.65	25.21	24.25	24.82	24.75	25.31	25.87
12H	4H	22.65	23.44	23.13	23.91	24.38	23.12	23.90	23.60	24.38	24.85
	6H	23.31	23.96	23.82	24.47	24.95	23.84	24.50	24.35	25.00	25.49
	8H	23.56	24.14	24.07	24.63	25.19	24.15	24.73	24.66	25.22	25.78