

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: P1586791

Luminaire Tested: 22CZSP-A-60HE-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-668-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-A-60HE-L950
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 6700 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

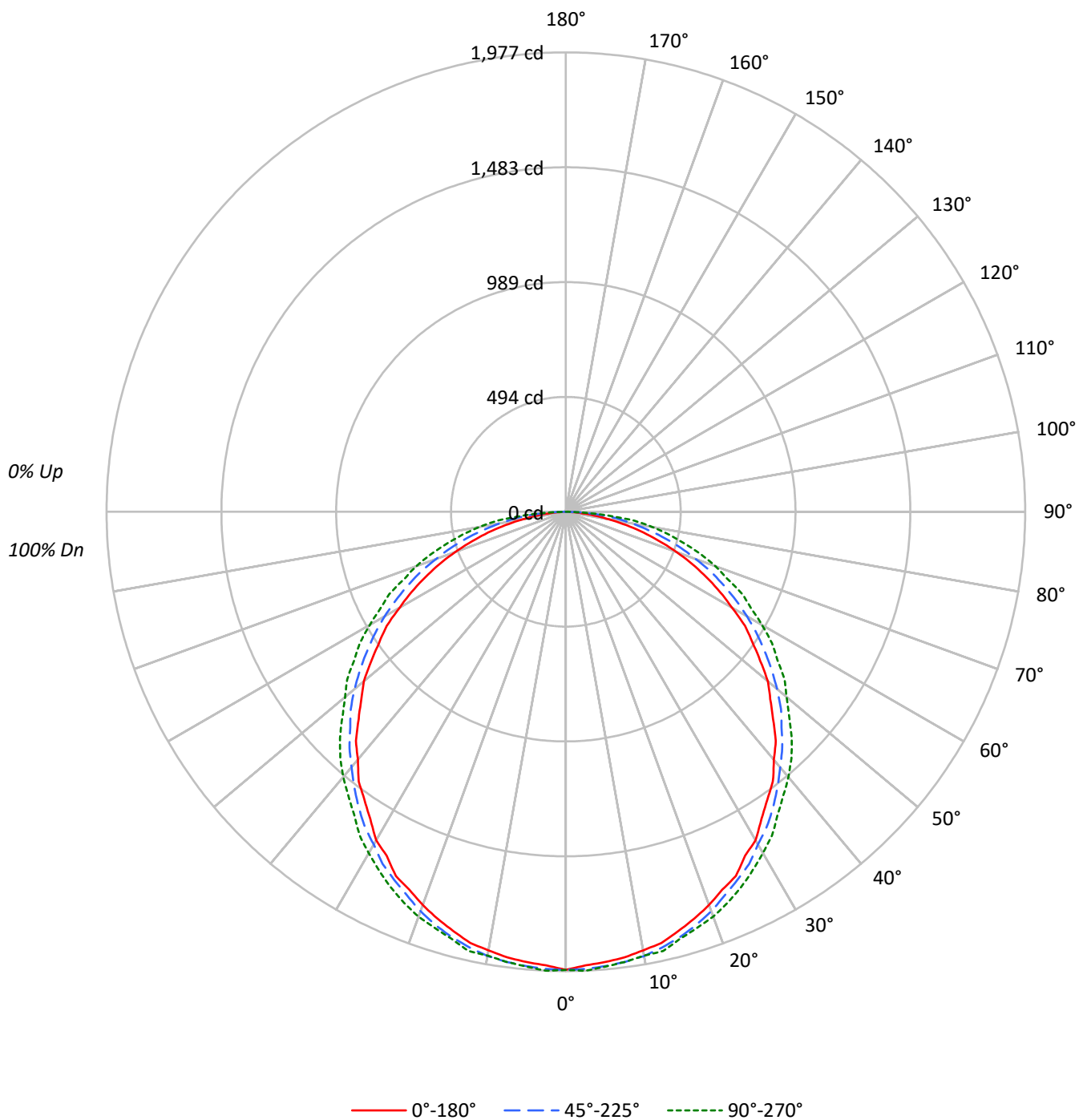
Lumens per Lamp: N/A
Luminaire Lumens: 5807.0 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 41.5
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: P1586791

CATALOG NUMBER: 22CZSP-A-60HE-L950

Luminous Intensity Polar Plot



TEST NUMBER: P1586791

CATALOG NUMBER: 22CZSP-A-60HE-L950

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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45		56	50	44		55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39		51	44	39		49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35		46	40	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		41	35	31	29
9	56	42	34	28	54	41	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6173	6173	6173
5°	6113	6169	6175
10°	6094	6173	6167
15°	6057	6144	6167
20°	6001	6096	6179
25°	5977	6038	6161
30°	5902	5979	6133
35°	5778	5941	6077
40°	5692	5866	6091
45°	5585	5813	6088
50°	5529	5780	6040
55°	5352	5702	6070
60°	5172	5640	6107
65°	4948	5553	6211
70°	4651	5447	6277
75°	4190	5351	6404
80°	3426	5253	6822
85°	2235	5231	6381

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 7159 cd/sqm

TEST NUMBER: P1586791

CATALOG NUMBER: 22CZSP-A-60HE-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.3	3.2
10°-20°	533.6	9.2
20°-30°	806.5	13.9
30°-40°	972.7	16.8
40°-50°	1016.9	17.5
50°-60°	937.7	16.1
60°-70°	743.0	12.8
70°-80°	464.6	8.0
80°-90°	145.7	2.5
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°	1526.5	26.3
0°-40°	2499.1	43.0
0°-60°	4453.7	76.7
0°-90°	5807.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5807.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1972	1972	1972	1972	1972	
5°	1945	1954	1963	1970	1964	185
15°	1868	1877	1895	1908	1902	527
25°	1730	1725	1748	1773	1783	793
35°	1512	1529	1554	1581	1590	948
45°	1261	1279	1313	1346	1375	976
55°	980	1004	1044	1101	1112	879
65°	668	696	750	808	838	662
75°	346	375	442	504	529	365
85°	62	89	146	170	178	81
90°	0	0	0	0	0	

TEST NUMBER: P1586791

CATALOG NUMBER: 22CZSP-A-60HE-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1971.5	1971.5	1971.5	1971.5	1971.5
2.5°	1953.8	1962.6	1969.8	1968.0	1976.9
5°	1944.9	1953.8	1962.6	1969.8	1964.4
7.5°	1934.2	1943.1	1953.8	1964.4	1953.8
10°	1916.5	1921.8	1941.3	1943.1	1939.6
12.5°	1900.5	1905.8	1920.0	1932.5	1936.0
15°	1868.5	1877.4	1895.2	1907.6	1902.3
17.5°	1836.5	1849.0	1865.0	1877.4	1877.4
20°	1801.0	1809.9	1829.4	1838.3	1854.3
22.5°	1760.2	1770.8	1786.8	1811.7	1820.6
25°	1730.0	1724.6	1747.7	1772.6	1783.3
27.5°	1669.6	1676.7	1708.7	1731.7	1740.6
30°	1632.3	1635.8	1653.6	1685.6	1696.2
32.5°	1566.6	1577.2	1609.2	1632.3	1651.8
35°	1511.5	1529.3	1554.1	1580.8	1589.7
37.5°	1463.6	1467.1	1495.5	1531.0	1538.1
40°	1392.5	1413.8	1435.1	1479.5	1490.2
42.5°	1337.4	1348.1	1378.3	1420.9	1436.9
45°	1261.1	1278.8	1312.6	1346.3	1374.7
47.5°	1193.6	1211.3	1255.7	1298.4	1303.7
50°	1135.0	1142.1	1186.5	1234.4	1239.8
52.5°	1055.0	1072.8	1115.4	1168.7	1186.5
55°	980.4	1003.5	1044.4	1101.2	1111.9
57.5°	914.7	925.4	973.3	1030.2	1051.5
60°	825.9	856.1	900.5	955.6	975.1
62.5°	749.5	778.0	825.9	877.4	898.7
65°	667.8	696.3	749.5	808.1	838.3
67.5°	589.7	612.8	676.7	737.1	751.3
70°	508.0	534.6	595.0	657.2	685.6
72.5°	422.7	452.9	520.4	579.0	609.2
75°	346.3	374.8	442.3	504.4	529.3
77.5°	266.4	298.4	364.1	426.3	454.7
80°	190.0	222.0	291.3	353.5	378.3
82.5°	122.6	156.3	222.0	277.1	298.4
85°	62.2	88.8	145.6	170.5	177.6
87.5°	19.5	32.0	49.7	56.8	56.8
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1586791

CATALOG NUMBER: 22CZSP-A-60HE-L950

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	17.85	19.52	18.21	19.83	20.14	18.64	20.31	19.00	20.62	20.93
	3H	19.63	21.14	20.01	21.47	21.83	20.78	22.30	21.16	22.62	22.98
	4H	20.27	21.70	20.67	22.04	22.42	21.71	23.13	22.10	23.48	23.86
	6H	20.69	22.02	21.11	22.38	22.77	22.53	23.86	22.94	24.22	24.61
	8H	20.81	22.08	21.23	22.46	22.86	22.88	24.15	23.30	24.53	24.93
	12H	20.86	22.08	21.29	22.46	22.89	23.12	24.34	23.55	24.72	25.15
4H	2H	18.62	20.05	19.02	20.40	20.77	19.24	20.66	19.63	21.01	21.38
	3H	20.63	21.84	21.04	22.23	22.63	21.62	22.83	22.03	23.22	23.62
	4H	21.39	22.49	21.82	22.90	23.33	22.71	23.80	23.14	24.21	24.65
	6H	21.94	22.90	22.39	23.34	23.79	23.71	24.66	24.16	25.10	25.56
	8H	22.10	22.99	22.55	23.43	23.90	24.13	25.03	24.59	25.47	25.94
	12H	22.18	22.99	22.66	23.47	23.94	24.45	25.26	24.93	25.73	26.20
8H	4H	21.87	22.77	22.33	23.21	23.68	23.02	23.91	23.47	24.35	24.82
	6H	22.56	23.31	23.05	23.80	24.27	24.18	24.93	24.67	25.42	25.89
	8H	22.79	23.46	23.30	23.97	24.45	24.73	25.40	25.23	25.90	26.39
	12H	22.94	23.53	23.44	24.02	24.58	25.15	25.75	25.66	26.24	26.80
12H	4H	21.97	22.78	22.45	23.25	23.72	23.04	23.85	23.52	24.33	24.80
	6H	22.71	23.39	23.22	23.89	24.37	24.24	24.91	24.74	25.42	25.90
	8H	23.01	23.61	23.52	24.10	24.66	24.85	25.45	25.36	25.94	26.50