

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: P1586523

Luminaire Tested: 22CZSP-57HE-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586523
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-57HE-L930
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 5700 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

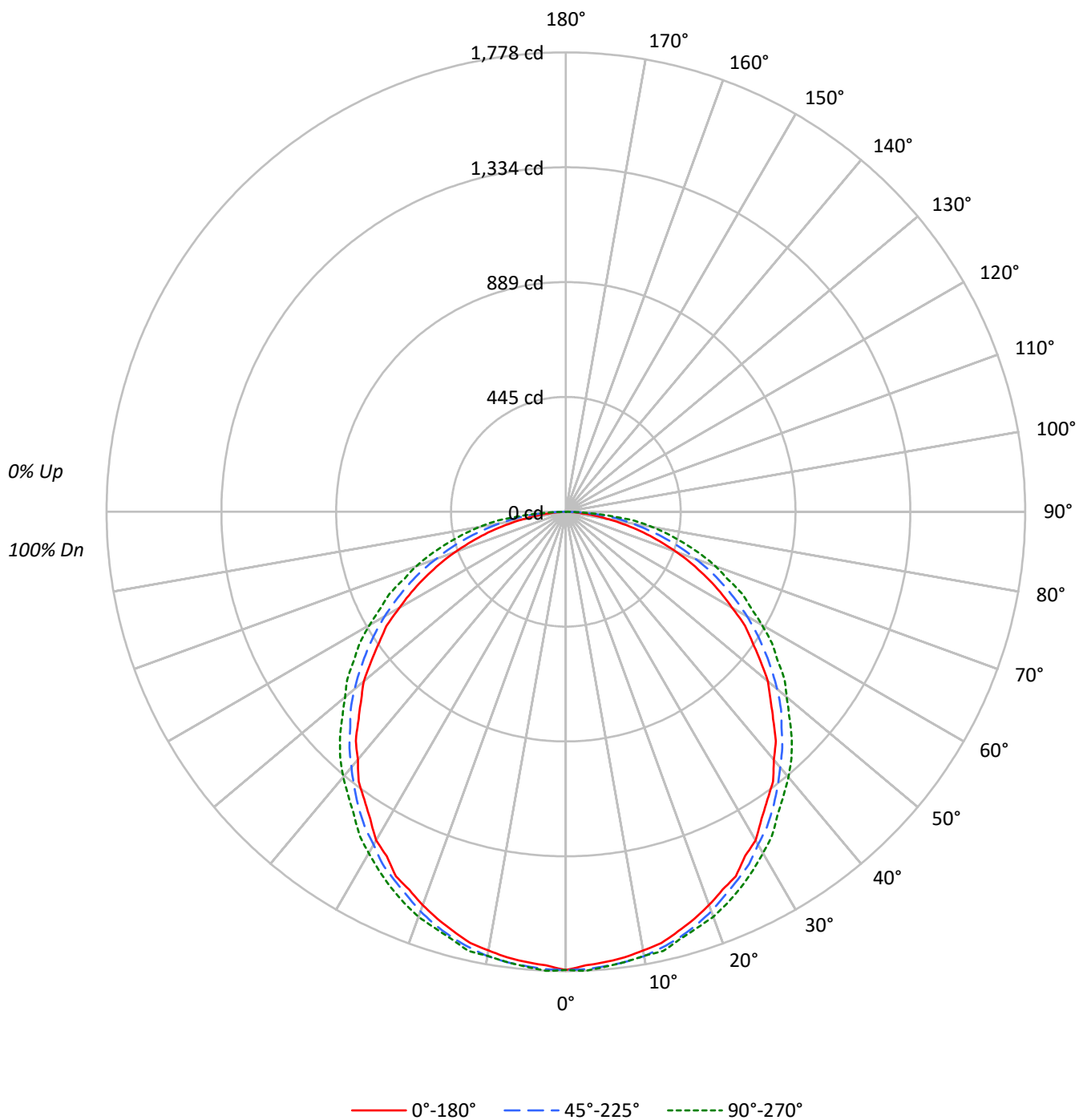
Lumens per Lamp: N/A
Luminaire Lumens: 5224.0 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 38.9
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: P1586523

CATALOG NUMBER: 22CZSP-57HE-L930

Luminous Intensity Polar Plot



TEST NUMBER: P1586523

CATALOG NUMBER: 22CZSP-57HE-L930

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°	5554	5554	5554
5°	5499	5550	5555
10°	5482	5553	5548
15°	5449	5527	5548
20°	5399	5484	5559
25°	5377	5432	5543
30°	5309	5379	5517
35°	5198	5344	5467
40°	5121	5278	5480
45°	5024	5229	5477
50°	4974	5200	5433
55°	4815	5129	5460
60°	4653	5073	5494
65°	4452	4996	5588
70°	4184	4901	5647
75°	3770	4814	5761
80°	3084	4725	6136
85°	2008	4707	5741

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6439 cd/sqm

TEST NUMBER: P1586523

CATALOG NUMBER: 22CZSP-57HE-L930

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.6	3.2
10°-20°	480.1	9.2
20°-30°	725.5	13.9
30°-40°	875.0	16.8
40°-50°	914.8	17.5
50°-60°	843.6	16.1
60°-70°	668.4	12.8
70°-80°	417.9	8.0
80°-90°	131.1	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°	1373.2	26.3
0°-40°	2248.2	43.0
0°-60°	4006.6	76.7
0°-90°	5224.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5224.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1774	1774	1774	1774	1774	
5°	1750	1758	1766	1772	1767	166
15°	1681	1689	1705	1716	1711	474
25°	1556	1552	1572	1595	1604	714
35°	1360	1376	1398	1422	1430	853
45°	1134	1150	1181	1211	1237	878
55°	882	903	940	991	1000	791
65°	601	626	674	727	754	595
75°	312	337	398	454	476	328
85°	56	80	131	153	160	73
90°	0	0	0	0	0	

TEST NUMBER: P1586523

CATALOG NUMBER: 22CZSP-57HE-L930

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1773.6	1773.6	1773.6	1773.6	1773.6
2.5°	1757.6	1765.6	1772.0	1770.4	1778.4
5°	1749.6	1757.6	1765.6	1772.0	1767.2
7.5°	1740.0	1748.0	1757.6	1767.2	1757.6
10°	1724.1	1728.9	1746.4	1748.0	1744.8
12.5°	1709.7	1714.5	1727.3	1738.4	1741.6
15°	1680.9	1688.9	1704.9	1716.1	1711.3
17.5°	1652.2	1663.3	1677.7	1688.9	1688.9
20°	1620.2	1628.2	1645.8	1653.8	1668.1
22.5°	1583.5	1593.0	1607.4	1629.8	1637.8
25°	1556.3	1551.5	1572.3	1594.6	1604.2
27.5°	1502.0	1508.4	1537.1	1557.9	1565.9
30°	1468.4	1471.6	1487.6	1516.3	1525.9
32.5°	1409.3	1418.9	1447.6	1468.4	1486.0
35°	1359.8	1375.7	1398.1	1422.1	1430.1
37.5°	1316.6	1319.8	1345.4	1377.3	1383.7
40°	1252.7	1271.9	1291.1	1331.0	1340.6
42.5°	1203.2	1212.8	1239.9	1278.3	1292.6
45°	1134.5	1150.4	1180.8	1211.2	1236.7
47.5°	1073.7	1089.7	1129.7	1168.0	1172.8
50°	1021.0	1027.4	1067.4	1110.5	1115.3
52.5°	949.1	965.1	1003.4	1051.4	1067.4
55°	882.0	902.8	939.5	990.7	1000.2
57.5°	822.9	832.5	875.6	926.7	945.9
60°	743.0	770.2	810.1	859.6	877.2
62.5°	674.3	699.9	743.0	789.3	808.5
65°	600.8	626.4	674.3	727.0	754.2
67.5°	530.5	551.3	608.8	663.1	675.9
70°	457.0	480.9	535.3	591.2	616.8
72.5°	380.3	407.4	468.2	520.9	548.1
75°	311.6	337.1	397.9	453.8	476.2
77.5°	239.7	268.4	327.6	383.5	409.0
80°	171.0	199.7	262.0	318.0	340.3
82.5°	110.3	140.6	199.7	249.3	268.4
85°	55.9	79.9	131.0	153.4	159.8
87.5°	17.6	28.8	44.7	51.1	51.1
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1586523

CATALOG NUMBER: 22CZSP-57HE-L930

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	17.48	19.15	17.85	19.46	19.78	18.27	19.94	18.64	20.25	20.57
	3H	19.26	20.78	19.64	21.10	21.46	20.41	21.93	20.79	22.25	22.61
	4H	19.90	21.33	20.30	21.68	22.05	21.34	22.77	21.74	23.11	23.49
	6H	20.33	21.65	20.74	22.02	22.41	22.16	23.49	22.57	23.85	24.24
	8H	20.44	21.71	20.86	22.10	22.49	22.51	23.78	22.93	24.17	24.56
	12H	20.49	21.71	20.92	22.09	22.52	22.75	23.97	23.18	24.35	24.78
4H	2H	18.25	19.68	18.65	20.03	20.40	18.87	20.30	19.26	20.64	21.02
	3H	20.26	21.47	20.67	21.86	22.26	21.25	22.46	21.66	22.85	23.25
	4H	21.03	22.12	21.46	22.53	22.96	22.34	23.43	22.77	23.85	24.28
	6H	21.57	22.53	22.03	22.97	23.42	23.34	24.30	23.79	24.74	25.19
	8H	21.73	22.63	22.19	23.07	23.53	23.77	24.66	24.22	25.10	25.57
	12H	21.82	22.63	22.29	23.10	23.57	24.08	24.89	24.56	25.36	25.83
8H	4H	21.51	22.40	21.96	22.84	23.31	22.65	23.55	23.11	23.99	24.45
	6H	22.19	22.94	22.69	23.43	23.90	23.81	24.56	24.30	25.05	25.52
	8H	22.42	23.10	22.93	23.60	24.09	24.36	25.03	24.86	25.54	26.02
	12H	22.57	23.17	23.08	23.66	24.21	24.79	25.38	25.29	25.87	26.43
12H	4H	21.60	22.41	22.08	22.88	23.35	22.68	23.49	23.16	23.96	24.43
	6H	22.34	23.02	22.85	23.52	24.01	23.87	24.54	24.38	25.05	25.53
	8H	22.65	23.24	23.15	23.73	24.29	24.49	25.08	24.99	25.57	26.13