

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: P1586527

Luminaire Tested: 22CZSP-57HE-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586527
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-L940
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 5700 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

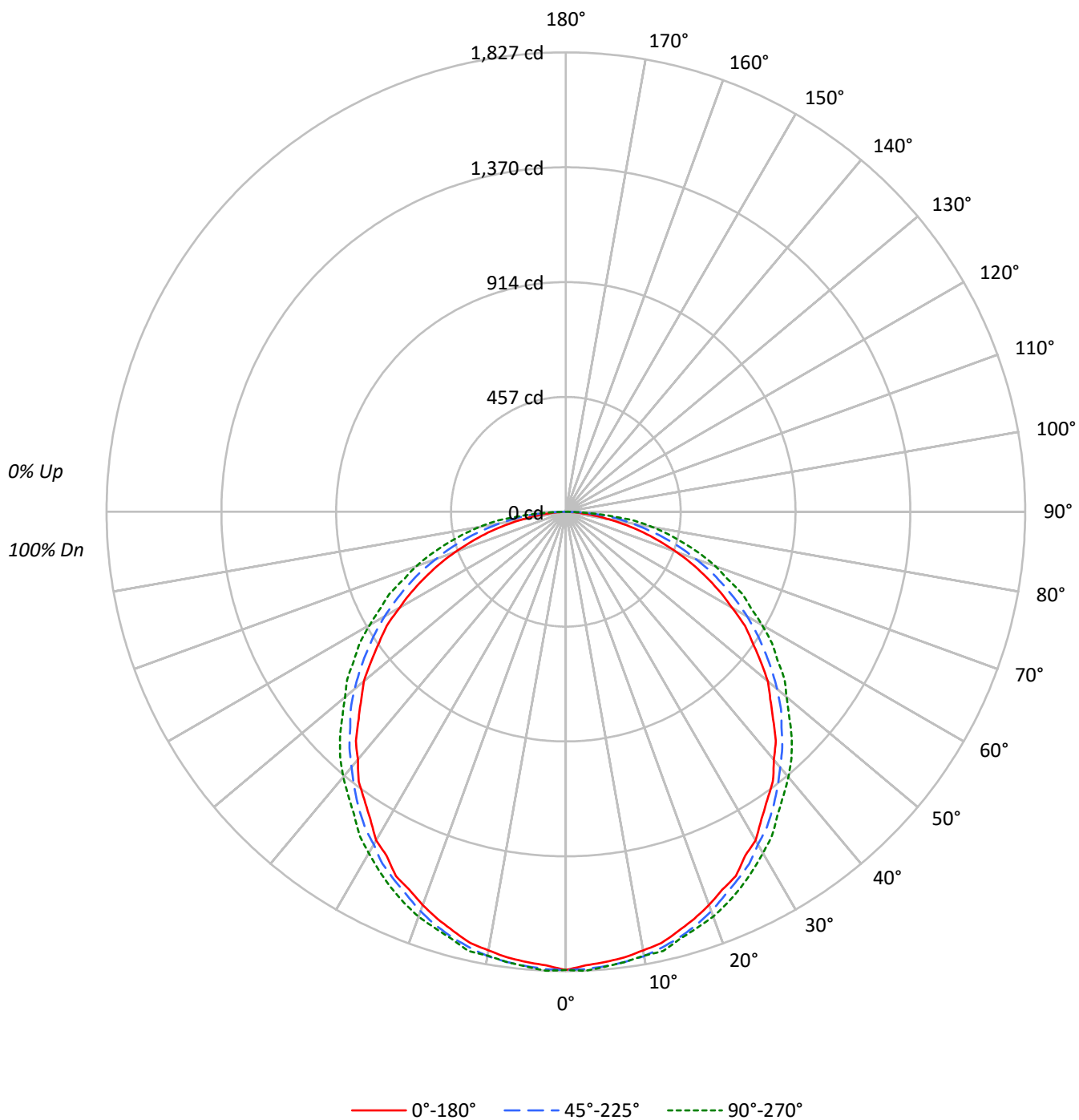
Lumens per Lamp: N/A
Luminaire Lumens: 5367.0 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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: P1586527

CATALOG NUMBER: 22CZSP-57HE-L940

Luminous Intensity Polar Plot



TEST NUMBER: P1586527

CATALOG NUMBER: 22CZSP-57HE-L940

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	50	30	10
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°	5706	5706	5706
5°	5650	5702	5707
10°	5632	5705	5700
15°	5598	5678	5699
20°	5547	5634	5711
25°	5524	5581	5694
30°	5455	5526	5668
35°	5340	5491	5616
40°	5261	5422	5630
45°	5161	5372	5627
50°	5110	5342	5582
55°	4947	5269	5610
60°	4780	5212	5644
65°	4573	5132	5741
70°	4298	5035	5801
75°	3873	4946	5919
80°	3167	4854	6306
85°	2066	4836	5899

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6616 cd/sqm

TEST NUMBER: P1586527

CATALOG NUMBER: 22CZSP-57HE-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.2	3.2
10°-20°	493.2	9.2
20°-30°	745.4	13.9
30°-40°	899.0	16.8
40°-50°	939.8	17.5
50°-60°	866.7	16.1
60°-70°	686.7	12.8
70°-80°	429.4	8.0
80°-90°	134.7	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°	1410.8	26.3
0°-40°	2309.8	43.0
0°-60°	4116.2	76.7
0°-90°	5367.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5367.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1822	1822	1822	1822	1822	
5°	1798	1806	1814	1820	1816	171
15°	1727	1735	1752	1763	1758	487
25°	1599	1594	1615	1638	1648	733
35°	1397	1413	1436	1461	1469	876
45°	1166	1182	1213	1244	1271	902
55°	906	928	965	1018	1028	812
65°	617	644	693	747	775	611
75°	320	346	409	466	489	337
85°	58	82	135	158	164	75
90°	0	0	0	0	0	

TEST NUMBER: P1586527

CATALOG NUMBER: 22CZSP-57HE-L940

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1822.1	1822.1	1822.1	1822.1	1822.1
2.5°	1805.7	1813.9	1820.5	1818.9	1827.1
5°	1797.5	1805.7	1813.9	1820.5	1815.6
7.5°	1787.7	1795.9	1805.7	1815.6	1805.7
10°	1771.3	1776.2	1794.2	1795.9	1792.6
12.5°	1756.5	1761.4	1774.5	1786.0	1789.3
15°	1726.9	1735.1	1751.6	1763.0	1758.1
17.5°	1697.4	1708.9	1723.7	1735.1	1735.1
20°	1664.6	1672.8	1690.8	1699.0	1713.8
22.5°	1626.8	1636.6	1651.4	1674.4	1682.6
25°	1598.9	1594.0	1615.3	1638.3	1648.1
27.5°	1543.1	1549.6	1579.2	1600.5	1608.7
30°	1508.6	1511.9	1528.3	1557.9	1567.7
32.5°	1447.9	1457.7	1487.3	1508.6	1526.7
35°	1397.0	1413.4	1436.4	1461.0	1469.2
37.5°	1352.7	1355.9	1382.2	1415.0	1421.6
40°	1287.0	1306.7	1326.4	1367.4	1377.3
42.5°	1236.1	1246.0	1273.9	1313.3	1328.0
45°	1165.5	1181.9	1213.1	1244.3	1270.6
47.5°	1103.1	1119.6	1160.6	1200.0	1204.9
50°	1049.0	1055.5	1096.6	1140.9	1145.8
52.5°	975.1	991.5	1030.9	1080.2	1096.6
55°	906.1	927.5	965.2	1017.8	1027.6
57.5°	845.4	855.3	899.6	952.1	971.8
60°	763.3	791.2	832.3	883.2	901.2
62.5°	692.7	719.0	763.3	810.9	830.6
65°	617.2	643.5	692.7	746.9	774.8
67.5°	545.0	566.3	625.4	681.3	694.4
70°	469.5	494.1	549.9	607.4	633.6
72.5°	390.7	418.6	481.0	535.2	563.1
75°	320.1	346.4	408.8	466.2	489.2
77.5°	246.2	275.8	336.5	394.0	420.2
80°	175.6	205.2	269.2	326.7	349.7
82.5°	113.3	144.5	205.2	256.1	275.8
85°	57.5	82.1	134.6	157.6	164.2
87.5°	18.1	29.5	46.0	52.5	52.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1586527

CATALOG NUMBER: 22CZSP-57HE-L940

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	17.58	19.24	17.94	19.56	19.87	18.36	20.03	18.73	20.35	20.66
	3H	19.36	20.87	19.73	21.20	21.56	20.51	22.02	20.89	22.35	22.71
	4H	19.99	21.42	20.39	21.77	22.14	21.43	22.86	21.83	23.21	23.58
	6H	20.42	21.75	20.83	22.11	22.50	22.26	23.58	22.67	23.95	24.34
	8H	20.53	21.80	20.96	22.19	22.59	22.60	23.87	23.03	24.26	24.66
	12H	20.59	21.80	21.02	22.19	22.61	22.85	24.06	23.28	24.44	24.87
4H	2H	18.35	19.78	18.75	20.12	20.50	18.96	20.39	19.36	20.74	21.11
	3H	20.36	21.56	20.77	21.96	22.36	21.35	22.55	21.76	22.95	23.35
	4H	21.12	22.21	21.55	22.62	23.06	22.43	23.53	22.87	23.94	24.37
	6H	21.67	22.62	22.12	23.06	23.52	23.43	24.39	23.89	24.83	25.28
	8H	21.82	22.72	22.28	23.16	23.62	23.86	24.76	24.32	25.20	25.66
	12H	21.91	22.72	22.39	23.19	23.66	24.17	24.98	24.65	25.46	25.92
8H	4H	21.60	22.50	22.06	22.94	23.40	22.74	23.64	23.20	24.08	24.54
	6H	22.29	23.04	22.78	23.52	24.00	23.91	24.66	24.40	25.14	25.62
	8H	22.52	23.19	23.02	23.69	24.18	24.45	25.12	24.96	25.63	26.11
	12H	22.66	23.26	23.17	23.75	24.31	24.88	25.48	25.39	25.97	26.53
12H	4H	21.70	22.50	22.17	22.98	23.45	22.77	23.58	23.25	24.05	24.52
	6H	22.44	23.11	22.94	23.62	24.10	23.96	24.64	24.47	25.14	25.63
	8H	22.74	23.34	23.25	23.83	24.38	24.58	25.18	25.08	25.67	26.22