

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: P1586512

Luminaire Tested: 22CZSP-57HE-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-57HE-L830-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 5700 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

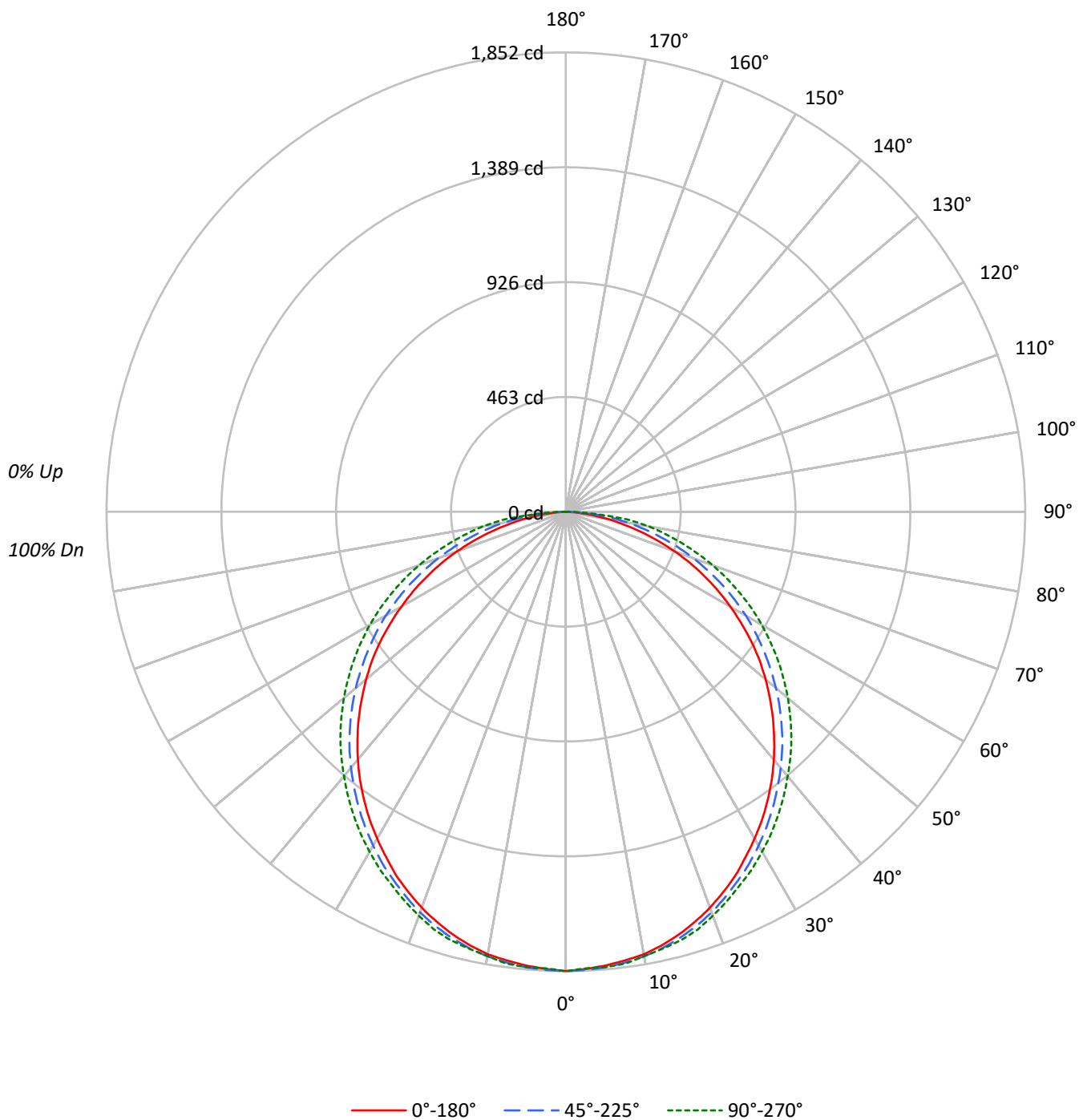
Lumens per Lamp: N/A
Luminaire Lumens: 5406.0 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot



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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	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5798	5798	5798
5°	5772	5794	5791
10°	5760	5786	5782
15°	5718	5765	5799
20°	5661	5728	5775
25°	5590	5668	5738
30°	5503	5619	5722
35°	5423	5564	5705
40°	5334	5509	5688
45°	5232	5453	5694
50°	5120	5386	5692
55°	4987	5310	5699
60°	4799	5252	5713
65°	4579	5150	5730
70°	4268	5007	5756
75°	3803	4808	5812
80°	3145	4578	6097
85°	2044	4135	5328

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6290 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.1	3.2
10°-20°	501.5	9.3
20°-30°	756.3	14.0
30°-40°	910.9	16.8
40°-50°	951.3	17.6
50°-60°	873.7	16.2
60°-70°	688.1	12.7
70°-80°	422.2	7.8
80°-90°	127.0	2.3
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°	1432.8	26.5
0°-40°	2343.7	43.4
0°-60°	4168.7	77.1
0°-90°	5406.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5406.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1852	1852	1852	1852	1852	
5°	1836	1839	1843	1849	1842	174
15°	1764	1768	1778	1789	1789	497
25°	1618	1622	1641	1661	1661	745
35°	1419	1426	1456	1485	1492	887
45°	1182	1194	1231	1274	1286	911
55°	913	930	973	1027	1044	815
65°	618	639	695	753	773	611
75°	314	339	397	460	480	333
85°	57	78	115	146	148	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1851.7	1851.7	1851.7	1851.7	1851.7
2.5°	1844.6	1848.1	1849.3	1850.5	1842.2
5°	1836.3	1838.7	1843.4	1849.3	1842.2
7.5°	1824.4	1826.8	1832.7	1841.0	1837.5
10°	1811.4	1812.6	1819.7	1825.6	1818.5
12.5°	1790.0	1793.6	1801.9	1806.6	1804.3
15°	1763.9	1767.5	1778.2	1788.8	1788.8
17.5°	1733.1	1737.8	1750.9	1765.1	1766.3
20°	1698.7	1702.2	1718.8	1733.1	1733.1
22.5°	1659.5	1664.3	1680.9	1696.3	1698.7
25°	1618.0	1621.6	1640.6	1660.7	1660.7
27.5°	1569.4	1576.5	1600.2	1620.4	1625.1
30°	1521.9	1527.9	1554.0	1578.9	1582.4
32.5°	1472.1	1479.2	1506.5	1533.8	1539.7
35°	1418.7	1425.8	1455.5	1485.2	1492.3
37.5°	1363.0	1371.3	1402.1	1436.5	1443.6
40°	1304.8	1314.3	1347.6	1384.3	1391.4
42.5°	1243.2	1256.2	1291.8	1329.8	1340.4
45°	1181.5	1194.5	1231.3	1274.0	1285.9
47.5°	1116.2	1131.7	1169.6	1214.7	1227.7
50°	1051.0	1066.4	1105.6	1154.2	1168.4
52.5°	984.6	1000.0	1040.3	1091.3	1106.7
55°	913.4	930.0	972.7	1027.3	1043.9
57.5°	839.8	861.2	906.3	962.0	978.6
60°	766.3	787.7	838.7	893.2	912.2
62.5°	693.9	714.1	766.3	824.4	844.6
65°	618.0	639.4	695.1	753.3	773.4
67.5°	543.3	564.6	620.4	680.9	702.2
70°	466.2	489.9	546.9	607.3	628.7
72.5°	389.1	414.0	472.1	533.8	554.0
75°	314.3	339.3	397.4	460.3	480.4
77.5°	240.8	268.1	325.0	389.1	408.1
80°	174.4	200.5	253.9	316.7	338.1
82.5°	111.5	134.0	187.4	246.7	262.2
85°	56.9	78.3	115.1	145.9	148.3
87.5°	17.8	24.9	38.0	56.9	58.1
90°	0.0	0.0	0.0	0.0	0.0

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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	19.25	17.95	19.56	19.87	18.41	20.08	18.78	20.39	20.70
	3H	19.34	20.85	19.72	21.17	21.53	20.53	22.04	20.91	22.36	22.72
	4H	19.96	21.38	20.36	21.73	22.10	21.42	22.84	21.82	23.19	23.56
	6H	20.37	21.69	20.78	22.05	22.44	22.20	23.52	22.61	23.89	24.28
	8H	20.48	21.74	20.90	22.13	22.53	22.52	23.78	22.94	24.17	24.57
	12H	20.53	21.74	20.96	22.12	22.55	22.73	23.94	23.16	24.32	24.75
4H	2H	18.36	19.78	18.75	20.13	20.50	19.00	20.42	19.40	20.77	21.15
	3H	20.33	21.53	20.74	21.93	22.33	21.36	22.56	21.77	22.95	23.35
	4H	21.07	22.16	21.50	22.57	23.00	22.41	23.50	22.84	23.91	24.34
	6H	21.60	22.55	22.05	22.99	23.44	23.36	24.31	23.81	24.75	25.21
	8H	21.75	22.64	22.20	23.08	23.54	23.76	24.65	24.22	25.09	25.56
	12H	21.83	22.63	22.31	23.11	23.58	24.04	24.84	24.52	25.31	25.78
8H	4H	21.53	22.42	21.99	22.86	23.33	22.70	23.59	23.16	24.03	24.50
	6H	22.19	22.93	22.68	23.42	23.90	23.81	24.55	24.30	25.04	25.52
	8H	22.40	23.07	22.91	23.57	24.06	24.32	24.99	24.83	25.50	25.98
	12H	22.54	23.13	23.05	23.62	24.18	24.71	25.30	25.21	25.79	26.35
12H	4H	21.62	22.42	22.10	22.90	23.36	22.72	23.53	23.20	24.00	24.47
	6H	22.32	22.99	22.83	23.50	23.98	23.86	24.53	24.36	25.03	25.52
	8H	22.60	23.19	23.11	23.68	24.24	24.44	25.03	24.94	25.52	26.08