

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: P1586768

Luminaire Tested: 22CZSP-A-57HE-L945-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586768
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-A-57HE-L945-S
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 5700 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

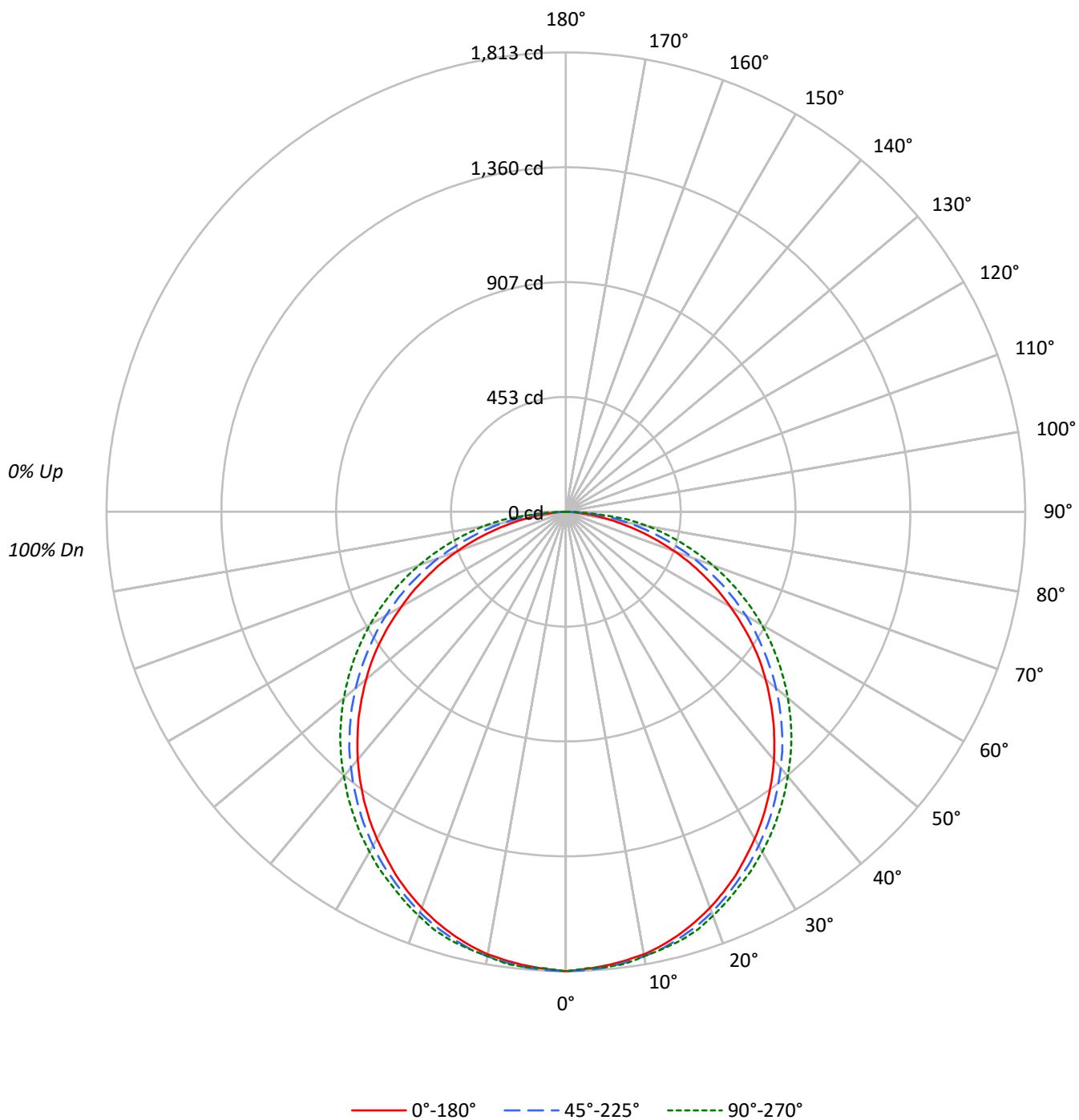
Lumens per Lamp: N/A
Luminaire Lumens: 5294.0 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	64	87	77	69	63	74	67	62		71	65	61		69
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5678	5678	5678
5°	5652	5674	5670
10°	5640	5666	5662
15°	5600	5645	5679
20°	5543	5609	5656
25°	5475	5551	5619
30°	5389	5502	5603
35°	5311	5448	5586
40°	5223	5394	5570
45°	5124	5340	5576
50°	5014	5274	5574
55°	4883	5201	5581
60°	4699	5144	5594
65°	4484	5044	5612
70°	4179	4903	5637
75°	3724	4709	5692
80°	3080	4483	5971
85°	2005	4049	5217

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6158 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.5	3.2
10°-20°	491.1	9.3
20°-30°	740.6	14.0
30°-40°	892.0	16.8
40°-50°	931.6	17.6
50°-60°	855.6	16.2
60°-70°	673.8	12.7
70°-80°	413.4	7.8
80°-90°	124.4	2.4
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°	1403.2	26.5
0°-40°	2295.2	43.4
0°-60°	4082.3	77.1
0°-90°	5294.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5294.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1813	1813	1813	1813	1813	
5°	1798	1801	1805	1811	1804	171
15°	1727	1731	1741	1752	1752	487
25°	1584	1588	1607	1626	1626	729
35°	1389	1396	1425	1454	1461	869
45°	1157	1170	1206	1248	1259	892
55°	894	911	953	1006	1022	799
65°	605	626	681	738	757	599
75°	308	332	389	451	470	326
85°	56	77	113	143	145	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1813.3	1813.3	1813.3	1813.3	1813.3
2.5°	1806.4	1809.9	1811.0	1812.2	1804.0
5°	1798.2	1800.6	1805.2	1811.0	1804.0
7.5°	1786.6	1788.9	1794.7	1802.9	1799.4
10°	1773.8	1775.0	1782.0	1787.8	1780.8
12.5°	1752.9	1756.4	1764.5	1769.2	1766.9
15°	1727.4	1730.9	1741.3	1751.8	1751.8
17.5°	1697.2	1701.8	1714.6	1728.5	1729.7
20°	1663.5	1667.0	1683.2	1697.2	1697.2
22.5°	1625.1	1629.8	1646.1	1661.2	1663.5
25°	1584.5	1588.0	1606.6	1626.3	1626.3
27.5°	1536.9	1543.8	1567.1	1586.8	1591.5
30°	1490.4	1496.2	1521.8	1546.2	1549.6
32.5°	1441.6	1448.6	1475.3	1502.0	1507.8
35°	1389.3	1396.3	1425.3	1454.4	1461.4
37.5°	1334.7	1342.9	1373.1	1406.8	1413.7
40°	1277.8	1287.1	1319.6	1355.6	1362.6
42.5°	1217.4	1230.2	1265.0	1302.2	1312.7
45°	1157.0	1169.8	1205.8	1247.6	1259.2
47.5°	1093.1	1108.2	1145.4	1189.5	1202.3
50°	1029.2	1044.3	1082.7	1130.3	1144.2
52.5°	964.2	979.3	1018.8	1068.7	1083.8
55°	894.5	910.7	952.6	1006.0	1022.3
57.5°	822.4	843.4	887.5	942.1	958.4
60°	750.4	771.3	821.3	874.7	893.3
62.5°	679.6	699.3	750.4	807.3	827.1
65°	605.2	626.1	680.7	737.6	757.4
67.5°	532.0	552.9	607.5	666.8	687.7
70°	456.5	479.8	535.5	594.8	615.7
72.5°	381.0	405.4	462.3	522.7	542.5
75°	307.8	332.2	389.2	450.7	470.5
77.5°	235.8	262.5	318.3	381.0	399.6
80°	170.8	196.3	248.6	310.2	331.1
82.5°	109.2	131.3	183.5	241.6	256.7
85°	55.8	76.7	112.7	142.9	145.2
87.5°	17.4	24.4	37.2	55.8	56.9
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	17.51	19.17	17.88	19.49	19.80	18.34	20.00	18.71	20.32	20.63
	3H	19.27	20.77	19.64	21.10	21.46	20.46	21.97	20.83	22.29	22.65
	4H	19.89	21.31	20.28	21.66	22.03	21.35	22.77	21.75	23.12	23.49
	6H	20.30	21.62	20.71	21.98	22.37	22.13	23.45	22.54	23.81	24.20
	8H	20.40	21.67	20.83	22.06	22.45	22.45	23.71	22.87	24.10	24.50
	12H	20.46	21.67	20.89	22.05	22.48	22.66	23.87	23.09	24.25	24.68
4H	2H	18.28	19.71	18.68	20.05	20.43	18.93	20.35	19.33	20.70	21.07
	3H	20.26	21.46	20.67	21.86	22.25	21.28	22.48	21.69	22.88	23.28
	4H	21.00	22.08	21.43	22.50	22.93	22.34	23.42	22.77	23.84	24.27
	6H	21.53	22.48	21.98	22.92	23.37	23.29	24.24	23.74	24.68	25.13
	8H	21.67	22.56	22.13	23.01	23.47	23.69	24.58	24.15	25.02	25.48
	12H	21.76	22.56	22.24	23.03	23.50	23.96	24.77	24.44	25.24	25.71
8H	4H	21.46	22.35	21.92	22.79	23.25	22.63	23.52	23.08	23.96	24.42
	6H	22.12	22.86	22.61	23.35	23.82	23.74	24.48	24.23	24.97	25.44
	8H	22.33	23.00	22.84	23.50	23.99	24.25	24.92	24.76	25.42	25.91
	12H	22.47	23.06	22.97	23.55	24.11	24.64	25.23	25.14	25.72	26.28
12H	4H	21.55	22.35	22.02	22.82	23.29	22.65	23.45	23.13	23.93	24.40
	6H	22.25	22.92	22.76	23.42	23.91	23.78	24.45	24.29	24.96	25.44
	8H	22.53	23.12	23.03	23.61	24.17	24.36	24.95	24.87	25.44	26.00