

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: P1586766

Luminaire Tested: 22CZSP-A-57HE-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586766
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-L940-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 5700 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

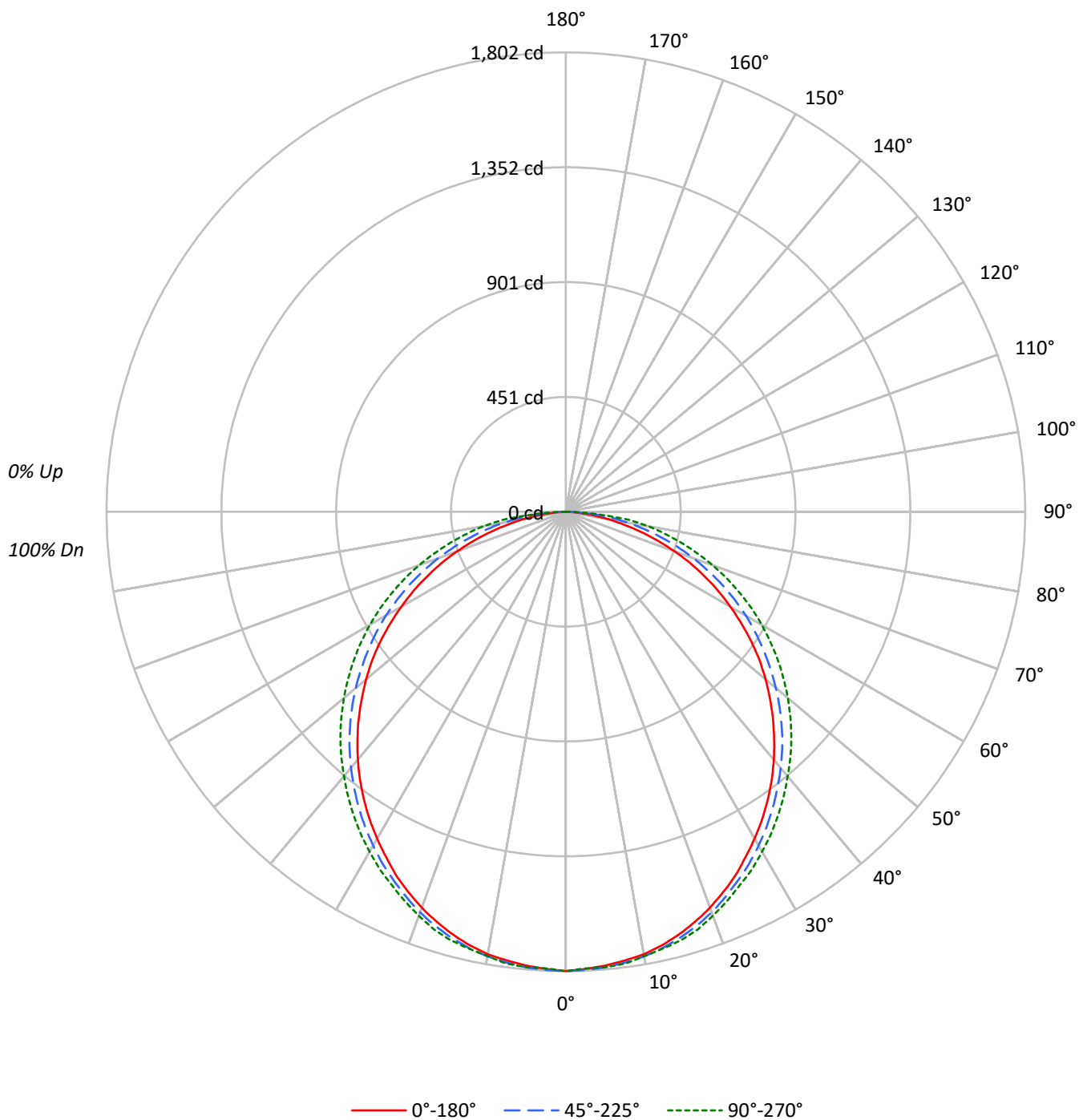
Lumens per Lamp: N/A
Luminaire Lumens: 5260.0 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	5642	5642	5642
5°	5616	5638	5634
10°	5604	5630	5626
15°	5564	5609	5642
20°	5508	5573	5619
25°	5439	5515	5583
30°	5354	5467	5567
35°	5277	5414	5550
40°	5190	5360	5534
45°	5091	5305	5540
50°	4982	5240	5538
55°	4852	5167	5545
60°	4669	5110	5559
65°	4455	5012	5576
70°	4153	4872	5600
75°	3701	4678	5655
80°	3060	4454	5931
85°	1990	4024	5184

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6120 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.4	3.2
10°-20°	487.9	9.3
20°-30°	735.8	14.0
30°-40°	886.3	16.8
40°-50°	925.6	17.6
50°-60°	850.1	16.2
60°-70°	669.5	12.7
70°-80°	410.8	7.8
80°-90°	123.6	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°	1394.1	26.5
0°-40°	2280.4	43.4
0°-60°	4056.1	77.1
0°-90°	5260.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5260.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1802	1802	1802	1802	1802	
5°	1787	1789	1794	1799	1792	170
15°	1716	1720	1730	1740	1740	484
25°	1574	1578	1596	1616	1616	725
35°	1380	1387	1416	1445	1452	863
45°	1150	1162	1198	1240	1251	886
55°	889	905	946	1000	1016	793
65°	601	622	676	733	752	595
75°	306	330	387	448	467	324
85°	55	76	112	142	144	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1801.7	1801.7	1801.7	1801.7	1801.7
2.5°	1794.8	1798.2	1799.4	1800.5	1792.5
5°	1786.7	1789.0	1793.6	1799.4	1792.5
7.5°	1775.1	1777.5	1783.2	1791.3	1787.8
10°	1762.4	1763.6	1770.5	1776.3	1769.4
12.5°	1741.7	1745.1	1753.2	1757.8	1755.5
15°	1716.3	1719.7	1730.1	1740.5	1740.5
17.5°	1686.3	1690.9	1703.6	1717.4	1718.6
20°	1652.8	1656.3	1672.4	1686.3	1686.3
22.5°	1614.7	1619.3	1635.5	1650.5	1652.8
25°	1574.3	1577.8	1596.2	1615.9	1615.9
27.5°	1527.0	1533.9	1557.0	1576.6	1581.2
30°	1480.8	1486.6	1512.0	1536.2	1539.7
32.5°	1432.3	1439.3	1465.8	1492.4	1498.1
35°	1380.4	1387.3	1416.2	1445.0	1452.0
37.5°	1326.2	1334.2	1364.3	1397.7	1404.6
40°	1269.6	1278.8	1311.2	1346.9	1353.9
42.5°	1209.6	1222.3	1256.9	1293.8	1304.2
45°	1149.6	1162.3	1198.0	1239.6	1251.1
47.5°	1086.1	1101.1	1138.0	1181.9	1194.6
50°	1022.6	1037.6	1075.7	1123.0	1136.9
52.5°	958.0	973.0	1012.2	1061.9	1076.9
55°	888.7	904.9	946.4	999.5	1015.7
57.5°	817.2	837.9	881.8	936.0	952.2
60°	745.6	766.4	816.0	869.1	887.6
62.5°	675.2	694.8	745.6	802.2	821.8
65°	601.3	622.1	676.4	732.9	752.5
67.5°	528.6	549.4	603.6	662.5	683.3
70°	453.6	476.7	532.1	590.9	611.7
72.5°	378.6	402.8	459.4	519.4	539.0
75°	305.9	330.1	386.7	447.8	467.4
77.5°	234.3	260.8	316.2	378.6	397.0
80°	169.7	195.1	247.0	308.2	328.9
82.5°	108.5	130.4	182.4	240.1	255.1
85°	55.4	76.2	112.0	142.0	144.3
87.5°	17.3	24.2	36.9	55.4	56.6
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	17.49	19.15	17.85	19.47	19.78	18.32	19.98	18.68	20.30	20.61
	3H	19.24	20.75	19.62	21.08	21.44	20.44	21.94	20.81	22.27	22.63
	4H	19.86	21.29	20.26	21.63	22.01	21.32	22.75	21.72	23.09	23.47
	6H	20.27	21.60	20.68	21.96	22.35	22.11	23.43	22.52	23.79	24.18
	8H	20.38	21.64	20.81	22.03	22.43	22.43	23.69	22.85	24.08	24.47
	12H	20.43	21.64	20.86	22.03	22.45	22.64	23.85	23.07	24.23	24.66
4H	2H	18.26	19.68	18.66	20.03	20.41	18.91	20.33	19.30	20.68	21.05
	3H	20.24	21.44	20.65	21.83	22.23	21.26	22.46	21.67	22.86	23.26
	4H	20.98	22.06	21.41	22.47	22.91	22.31	23.40	22.74	23.81	24.25
	6H	21.50	22.46	21.96	22.90	23.35	23.27	24.22	23.72	24.66	25.11
	8H	21.65	22.54	22.11	22.98	23.45	23.66	24.56	24.12	25.00	25.46
	12H	21.73	22.54	22.21	23.01	23.48	23.94	24.74	24.42	25.22	25.69
8H	4H	21.43	22.33	21.89	22.77	23.23	22.60	23.50	23.06	23.94	24.40
	6H	22.10	22.84	22.59	23.33	23.80	23.72	24.46	24.21	24.95	25.42
	8H	22.31	22.97	22.81	23.48	23.96	24.23	24.90	24.73	25.40	25.89
	12H	22.45	23.04	22.95	23.53	24.09	24.61	25.20	25.12	25.69	26.25
12H	4H	21.52	22.33	22.00	22.80	23.27	22.63	23.43	23.11	23.91	24.37
	6H	22.23	22.90	22.73	23.40	23.89	23.76	24.43	24.27	24.94	25.42
	8H	22.51	23.10	23.01	23.59	24.15	24.34	24.93	24.85	25.42	25.98