

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: P1586450

Luminaire Tested: 22CZSP-47-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586450
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-47-L950-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 4500 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

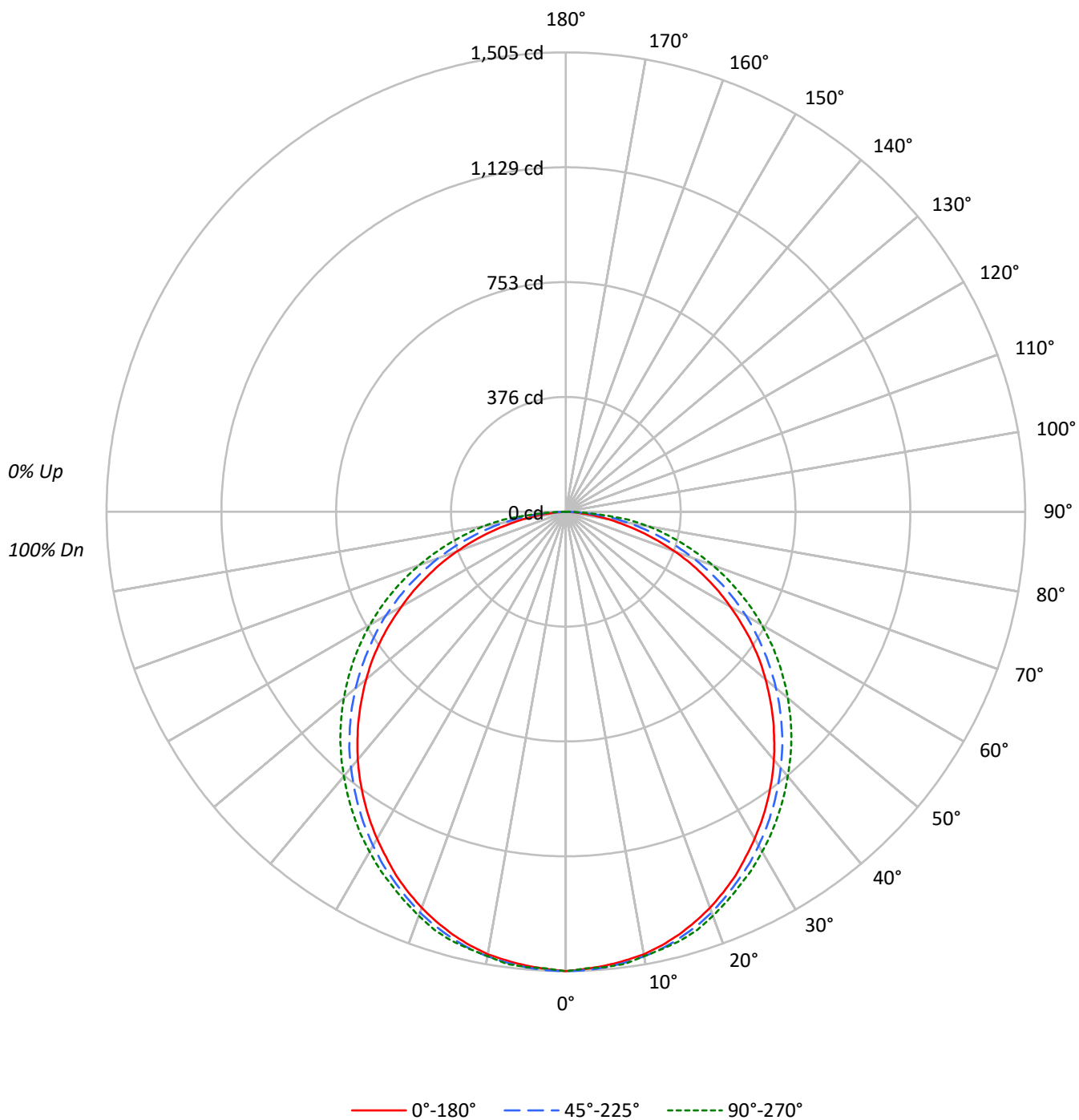
Lumens per Lamp: N/A
Luminaire Lumens: 4394.0 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 33.1
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°	4713	4713	4713
5°	4691	4710	4706
10°	4681	4703	4700
15°	4648	4685	4714
20°	4601	4656	4694
25°	4544	4607	4664
30°	4473	4567	4651
35°	4408	4522	4636
40°	4335	4477	4623
45°	4253	4432	4629
50°	4162	4378	4626
55°	4053	4316	4632
60°	3901	4269	4643
65°	3722	4186	4658
70°	3469	4070	4678
75°	3091	3908	4724
80°	2555	3720	4955
85°	1663	3359	4329

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5112 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.3	3.2
10°-20°	407.6	9.3
20°-30°	614.7	14.0
30°-40°	740.4	16.8
40°-50°	773.2	17.6
50°-60°	710.1	16.2
60°-70°	559.3	12.7
70°-80°	343.1	7.8
80°-90°	103.3	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°	1164.6	26.5
0°-40°	1905.0	43.4
0°-60°	3388.3	77.1
0°-90°	4394.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4394.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1505	1505	1505	1505	1505	
5°	1492	1494	1498	1503	1497	142
15°	1434	1437	1445	1454	1454	404
25°	1315	1318	1333	1350	1350	605
35°	1153	1159	1183	1207	1213	721
45°	960	971	1001	1036	1045	740
55°	742	756	791	835	848	663
65°	502	520	565	612	629	497
75°	256	276	323	374	390	271
85°	46	64	94	119	120	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1505.1	1505.1	1505.1	1505.1	1505.1
2.5°	1499.3	1502.2	1503.1	1504.1	1497.3
5°	1492.5	1494.5	1498.3	1503.1	1497.3
7.5°	1482.9	1484.8	1489.6	1496.4	1493.5
10°	1472.3	1473.2	1479.0	1483.9	1478.1
12.5°	1454.9	1457.8	1464.6	1468.4	1466.5
15°	1433.7	1436.6	1445.3	1454.0	1454.0
17.5°	1408.6	1412.5	1423.1	1434.7	1435.6
20°	1380.7	1383.6	1397.1	1408.6	1408.6
22.5°	1348.9	1352.7	1366.2	1378.8	1380.7
25°	1315.1	1318.0	1333.4	1349.8	1349.8
27.5°	1275.6	1281.4	1300.7	1317.1	1320.9
30°	1237.0	1241.8	1263.1	1283.3	1286.2
32.5°	1196.5	1202.3	1224.5	1246.7	1251.5
35°	1153.1	1158.9	1183.0	1207.1	1212.9
37.5°	1107.8	1114.6	1139.6	1167.6	1173.4
40°	1060.6	1068.3	1095.3	1125.2	1131.0
42.5°	1010.4	1021.1	1050.0	1080.8	1089.5
45°	960.3	970.9	1000.8	1035.5	1045.2
47.5°	907.3	919.8	950.7	987.3	997.9
50°	854.3	866.8	898.6	938.1	949.7
52.5°	800.3	812.8	845.6	887.0	899.6
55°	742.4	755.9	790.6	835.0	848.5
57.5°	682.6	700.0	736.6	781.9	795.4
60°	622.9	640.2	681.7	726.0	741.4
62.5°	564.0	580.4	622.9	670.1	686.5
65°	502.3	519.7	565.0	612.2	628.6
67.5°	441.6	458.9	504.3	553.4	570.8
70°	378.9	398.2	444.5	493.7	511.0
72.5°	316.2	336.5	383.7	433.9	450.3
75°	255.5	275.8	323.0	374.1	390.5
77.5°	195.7	217.9	264.2	316.2	331.7
80°	141.7	162.9	206.3	257.4	274.8
82.5°	90.6	109.0	152.3	200.5	213.1
85°	46.3	63.6	93.5	118.6	120.5
87.5°	14.5	20.2	30.9	46.3	47.2
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	16.86	18.53	17.23	18.84	19.15	17.69	19.36	18.06	19.67	19.98
	3H	18.62	20.13	19.00	20.45	20.81	19.81	21.32	20.19	21.64	22.00
	4H	19.24	20.66	19.64	21.01	21.38	20.70	22.12	21.10	22.47	22.84
	6H	19.65	20.97	20.06	21.33	21.72	21.48	22.80	21.89	23.17	23.56
	8H	19.76	21.02	20.18	21.41	21.81	21.80	23.06	22.22	23.45	23.85
	12H	19.81	21.02	20.24	21.40	21.83	22.01	23.22	22.44	23.60	24.03
4H	2H	17.64	19.06	18.03	19.41	19.78	18.28	19.70	18.68	20.05	20.43
	3H	19.61	20.81	20.02	21.21	21.61	20.64	21.84	21.05	22.23	22.63
	4H	20.35	21.44	20.78	21.85	22.28	21.69	22.78	22.12	23.19	23.62
	6H	20.88	21.83	21.33	22.27	22.72	22.64	23.59	23.09	24.03	24.49
	8H	21.02	21.92	21.48	22.36	22.82	23.04	23.93	23.50	24.37	24.84
	12H	21.11	21.91	21.59	22.39	22.85	23.32	24.12	23.79	24.59	25.06
8H	4H	20.81	21.70	21.27	22.14	22.61	21.98	22.87	22.44	23.31	23.78
	6H	21.47	22.21	21.96	22.70	23.17	23.09	23.83	23.58	24.32	24.80
	8H	21.68	22.35	22.19	22.85	23.34	23.60	24.27	24.11	24.78	25.26
	12H	21.82	22.41	22.33	22.90	23.46	23.99	24.58	24.49	25.07	25.63
12H	4H	20.90	21.70	21.38	22.18	22.64	22.00	22.81	22.48	23.28	23.75
	6H	21.60	22.27	22.11	22.78	23.26	23.14	23.81	23.64	24.31	24.80
	8H	21.88	22.47	22.39	22.96	23.52	23.72	24.31	24.22	24.80	25.36