

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: P1586482

Luminaire Tested: 22CZSP-52-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586482
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-52-L930-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 5000 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

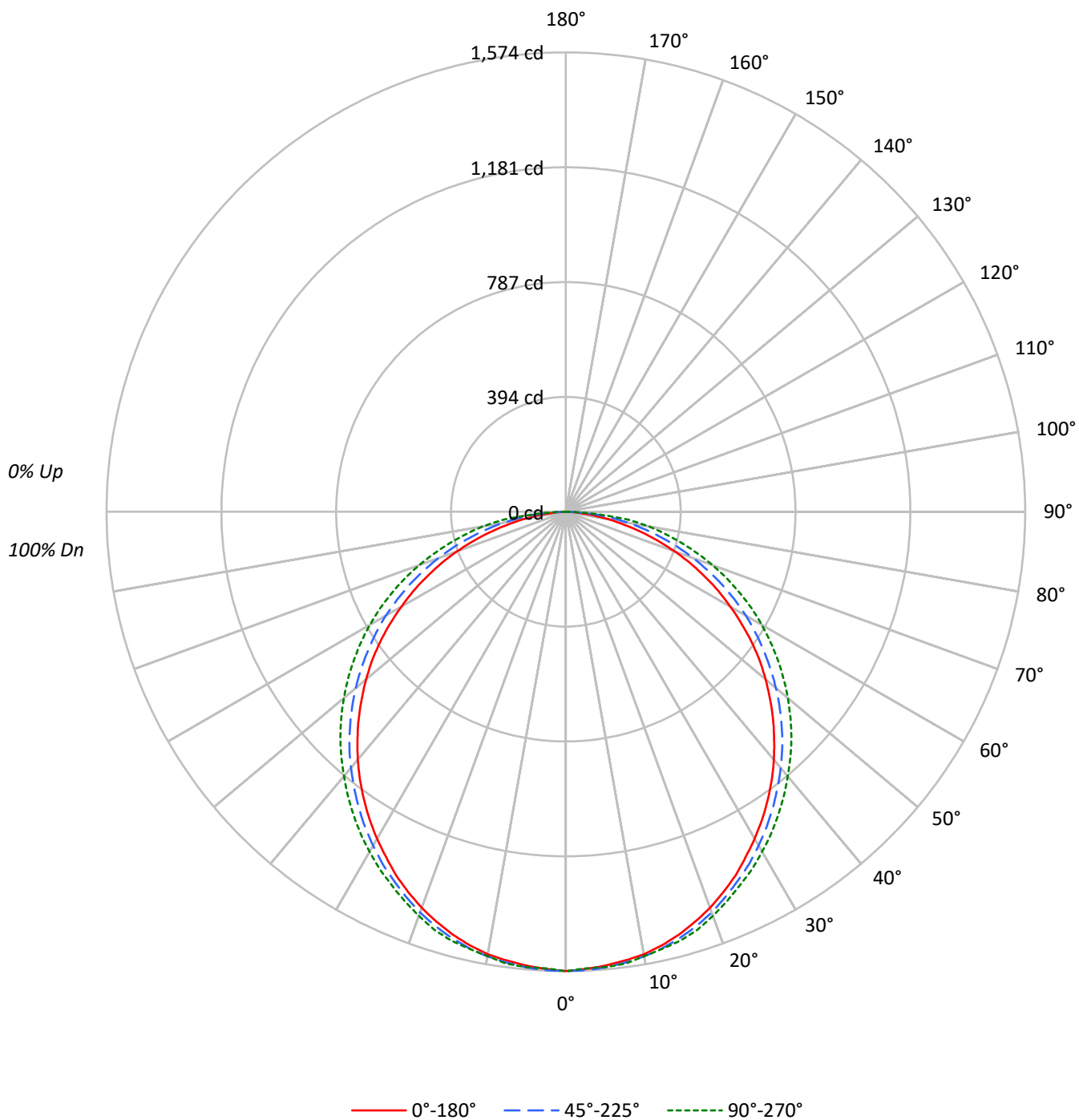
Lumens per Lamp: N/A
Luminaire Lumens: 4595.0 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37.2
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°	4928	4928	4928
5°	4906	4925	4922
10°	4895	4918	4915
15°	4860	4900	4929
20°	4811	4868	4909
25°	4752	4818	4877
30°	4677	4776	4863
35°	4610	4729	4849
40°	4534	4682	4834
45°	4447	4635	4840
50°	4352	4578	4838
55°	4239	4514	4844
60°	4079	4464	4856
65°	3892	4377	4871
70°	3628	4255	4893
75°	3233	4087	4940
80°	2672	3891	5183
85°	1739	3514	4527

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5345 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.8	3.2
10°-20°	426.2	9.3
20°-30°	642.8	14.0
30°-40°	774.3	16.8
40°-50°	808.6	17.6
50°-60°	742.6	16.2
60°-70°	584.9	12.7
70°-80°	358.8	7.8
80°-90°	108.0	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°	1217.9	26.5
0°-40°	1992.1	43.4
0°-60°	3543.3	77.1
0°-90°	4595.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4595.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1574	1574	1574	1574	1574	
5°	1561	1563	1567	1572	1566	148
15°	1499	1502	1511	1520	1520	423
25°	1375	1378	1394	1412	1412	633
35°	1206	1212	1237	1262	1268	754
45°	1004	1015	1047	1083	1093	774
55°	776	790	827	873	887	693
65°	525	544	591	640	657	520
75°	267	288	338	391	408	283
85°	48	66	98	124	126	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1573.9	1573.9	1573.9	1573.9	1573.9
2.5°	1567.9	1570.9	1571.9	1572.9	1565.8
5°	1560.8	1562.8	1566.9	1571.9	1565.8
7.5°	1550.7	1552.7	1557.8	1564.8	1561.8
10°	1539.6	1540.6	1546.7	1551.7	1545.7
12.5°	1521.5	1524.5	1531.6	1535.6	1533.6
15°	1499.3	1502.3	1511.4	1520.5	1520.5
17.5°	1473.1	1477.1	1488.2	1500.3	1501.3
20°	1443.8	1446.9	1461.0	1473.1	1473.1
22.5°	1410.6	1414.6	1428.7	1441.8	1443.8
25°	1375.3	1378.3	1394.4	1411.6	1411.6
27.5°	1333.9	1340.0	1360.2	1377.3	1381.3
30°	1293.6	1298.7	1320.8	1342.0	1345.0
32.5°	1251.3	1257.3	1280.5	1303.7	1308.7
35°	1205.9	1211.9	1237.1	1262.4	1268.4
37.5°	1158.5	1165.6	1191.8	1221.0	1227.1
40°	1109.1	1117.2	1145.4	1176.7	1182.7
42.5°	1056.7	1067.8	1098.0	1130.3	1139.3
45°	1004.2	1015.3	1046.6	1082.9	1093.0
47.5°	948.8	961.9	994.2	1032.5	1043.6
50°	893.3	906.4	939.7	981.0	993.1
52.5°	836.9	850.0	884.3	927.6	940.7
55°	776.4	790.5	826.8	873.2	887.3
57.5°	713.9	732.0	770.3	817.7	831.8
60°	651.3	669.5	712.8	759.2	775.4
62.5°	589.8	607.0	651.3	700.7	717.9
65°	525.3	543.5	590.8	640.3	657.4
67.5°	461.8	479.9	527.3	578.7	596.9
70°	396.3	416.4	464.8	516.2	534.4
72.5°	330.7	351.9	401.3	453.7	470.9
75°	267.2	288.4	337.8	391.2	408.3
77.5°	204.7	227.9	276.3	330.7	346.8
80°	148.2	170.4	215.8	269.2	287.4
82.5°	94.8	113.9	159.3	209.7	222.8
85°	48.4	66.5	97.8	124.0	126.0
87.5°	15.1	21.2	32.3	48.4	49.4
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	17.02	18.68	17.38	19.00	19.31	17.85	19.51	18.21	19.83	20.14
	3H	18.78	20.28	19.15	20.61	20.97	19.97	21.47	20.34	21.80	22.16
	4H	19.39	20.82	19.79	21.16	21.54	20.86	22.28	21.25	22.62	23.00
	6H	19.80	21.13	20.22	21.49	21.88	21.64	22.96	22.05	23.32	23.71
	8H	19.91	21.18	20.34	21.56	21.96	21.96	23.22	22.38	23.61	24.01
	12H	19.96	21.17	20.39	21.56	21.98	22.17	23.38	22.60	23.76	24.19
4H	2H	17.79	19.21	18.19	19.56	19.94	18.44	19.86	18.84	20.21	20.58
	3H	19.77	20.97	20.18	21.36	21.76	20.79	21.99	21.20	22.39	22.79
	4H	20.51	21.59	20.94	22.00	22.44	21.84	22.93	22.28	23.34	23.78
	6H	21.03	21.99	21.49	22.43	22.88	22.80	23.75	23.25	24.19	24.64
	8H	21.18	22.07	21.64	22.51	22.98	23.19	24.09	23.65	24.53	24.99
	12H	21.26	22.07	21.74	22.54	23.01	23.47	24.27	23.95	24.75	25.22
8H	4H	20.96	21.86	21.42	22.30	22.76	22.13	23.03	22.59	23.47	23.93
	6H	21.63	22.37	22.12	22.86	23.33	23.25	23.99	23.74	24.48	24.95
	8H	21.84	22.51	22.34	23.01	23.49	23.76	24.43	24.26	24.93	25.42
	12H	21.98	22.57	22.48	23.06	23.62	24.14	24.73	24.65	25.22	25.78
12H	4H	21.05	21.86	21.53	22.33	22.80	22.16	22.96	22.64	23.44	23.90
	6H	21.76	22.43	22.26	22.93	23.42	23.29	23.96	23.80	24.47	24.95
	8H	22.04	22.63	22.54	23.12	23.68	23.87	24.46	24.38	24.95	25.51