

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: P1586729

Luminaire Tested: 22CZSP-A-52-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-772-10)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-A-52-L945
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 5000 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

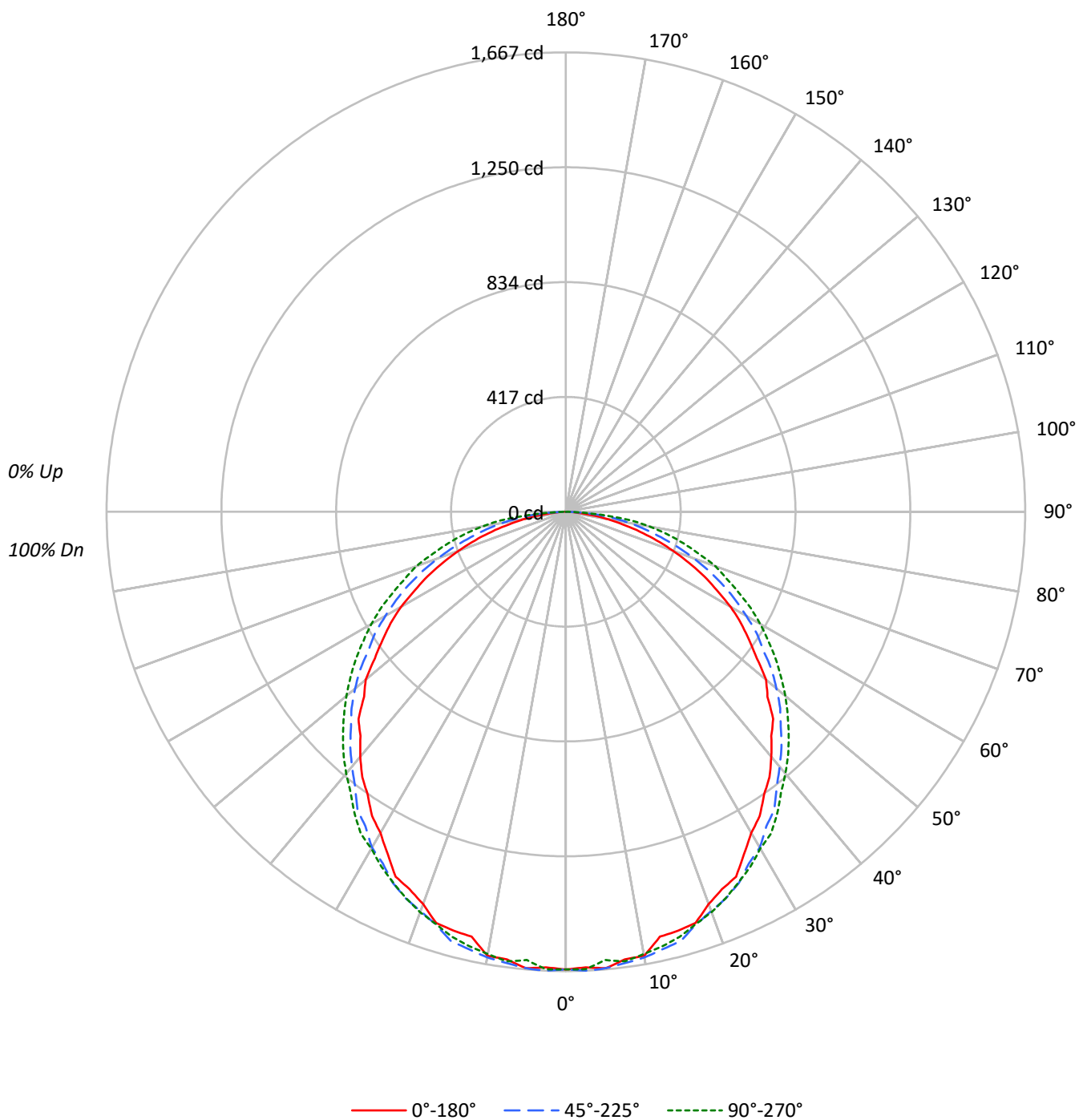
Lumens per Lamp: N/A
Luminaire Lumens: 4849.0 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	68
3	89	79	70	63	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	31	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°	5201	5201	5201
5°	5227	5227	5133
10°	5202	5222	5182
15°	5102	5226	5176
20°	5048	5138	5152
25°	5048	5134	5127
30°	4865	5089	5104
35°	4791	5040	5111
40°	4743	4933	5068
45°	4712	4882	5065
50°	4620	4861	5063
55°	4432	4770	5076
60°	4326	4734	5103
65°	4107	4666	5118
70°	3787	4516	5293
75°	3366	4317	5343
80°	2797	4232	5538
85°	1710	3790	4681

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5731 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.5	3.2
10°-20°	450.0	9.3
20°-30°	678.8	14.0
30°-40°	815.3	16.8
40°-50°	851.0	17.6
50°-60°	783.6	16.2
60°-70°	618.8	12.8
70°-80°	381.1	7.9
80°-90°	113.0	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°	1286.3	26.5
0°-40°	2101.6	43.3
0°-60°	3736.2	77.1
0°-90°	4849.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4849.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1661	1661	1661	1661	1661	
5°	1663	1646	1663	1665	1633	157
15°	1574	1596	1612	1605	1597	445
25°	1461	1472	1486	1480	1484	666
35°	1253	1276	1318	1325	1337	788
45°	1064	1072	1102	1126	1144	814
55°	812	834	874	913	930	729
65°	554	574	630	675	691	546
75°	278	305	357	414	442	295
85°	48	68	106	125	130	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1660.8	1660.8	1660.8	1660.8	1660.8
2.5°	1654.6	1672.2	1667.0	1670.1	1661.8
5°	1662.8	1646.3	1662.8	1664.9	1632.9
7.5°	1638.0	1640.1	1651.5	1654.6	1645.3
10°	1636.0	1642.2	1642.2	1631.8	1629.8
12.5°	1579.1	1610.1	1625.6	1632.9	1615.3
15°	1573.9	1595.6	1612.2	1604.9	1596.7
17.5°	1564.6	1558.4	1569.8	1578.1	1568.7
20°	1515.0	1525.3	1541.9	1543.9	1546.0
22.5°	1481.9	1485.0	1518.1	1521.2	1517.0
25°	1461.2	1471.5	1486.0	1479.8	1483.9
27.5°	1400.2	1425.0	1438.4	1450.9	1450.9
30°	1345.4	1374.3	1407.4	1411.6	1411.6
32.5°	1309.2	1328.8	1353.7	1361.9	1384.7
35°	1253.3	1276.1	1318.5	1324.7	1337.1
37.5°	1214.0	1236.8	1256.4	1278.2	1283.3
40°	1160.3	1184.1	1206.8	1231.6	1239.9
42.5°	1103.4	1128.2	1158.2	1184.1	1194.4
45°	1064.1	1072.4	1102.4	1126.1	1143.7
47.5°	992.7	1016.5	1054.8	1084.8	1092.0
50°	948.3	957.6	997.9	1038.2	1039.3
52.5°	873.8	901.7	941.0	979.3	984.5
55°	811.8	833.5	873.8	913.1	929.7
57.5°	753.9	770.4	822.1	861.4	870.7
60°	690.8	708.4	755.9	801.4	814.9
62.5°	617.4	642.2	693.9	737.3	755.9
65°	554.3	573.9	629.8	675.3	690.8
67.5°	482.9	509.8	562.6	613.2	629.8
70°	413.6	440.5	493.3	546.0	578.1
72.5°	345.4	373.3	426.1	487.1	504.6
75°	278.2	305.1	356.8	413.6	441.6
77.5°	212.0	240.9	293.7	350.6	377.5
80°	155.1	177.9	234.7	284.4	307.1
82.5°	96.2	120.0	172.7	219.2	238.9
85°	47.6	68.3	105.5	125.1	130.3
87.5°	14.5	21.7	33.1	43.4	49.6
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	17.19	18.86	17.56	19.17	19.49	18.02	19.68	18.38	19.99	20.31
	3H	18.95	20.46	19.32	20.78	21.14	20.17	21.67	20.54	22.00	22.36
	4H	19.56	20.98	19.96	21.33	21.71	21.08	22.50	21.48	22.85	23.22
	6H	19.96	21.29	20.38	21.65	22.04	21.88	23.20	22.29	23.56	23.96
	8H	20.07	21.33	20.49	21.72	22.12	22.20	23.47	22.63	23.85	24.25
	12H	20.11	21.32	20.54	21.71	22.13	22.41	23.62	22.84	24.00	24.43
4H	2H	17.99	19.41	18.38	19.76	20.13	18.62	20.05	19.02	20.39	20.77
	3H	19.96	21.16	20.37	21.55	21.95	21.00	22.20	21.41	22.60	23.00
	4H	20.69	21.78	21.12	22.19	22.63	22.07	23.16	22.50	23.57	24.00
	6H	21.21	22.16	21.66	22.60	23.06	23.04	23.99	23.49	24.43	24.88
	8H	21.35	22.24	21.81	22.69	23.15	23.43	24.33	23.89	24.77	25.23
	12H	21.43	22.23	21.91	22.71	23.17	23.70	24.51	24.18	24.98	25.45
8H	4H	21.16	22.05	21.62	22.49	22.95	22.36	23.25	22.82	23.69	24.16
	6H	21.81	22.56	22.30	23.04	23.52	23.48	24.23	23.98	24.72	25.19
	8H	22.02	22.69	22.52	23.19	23.68	23.99	24.66	24.50	25.17	25.65
	12H	22.15	22.74	22.65	23.23	23.79	24.36	24.95	24.87	25.44	26.00
12H	4H	21.25	22.05	21.73	22.53	22.99	22.38	23.19	22.86	23.66	24.13
	6H	21.95	22.62	22.46	23.12	23.61	23.53	24.20	24.04	24.71	25.19
	8H	22.22	22.82	22.73	23.31	23.86	24.11	24.70	24.61	25.19	25.75