

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: P1586715

Luminaire Tested: 22CZSP-A-52-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586715
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-L835
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

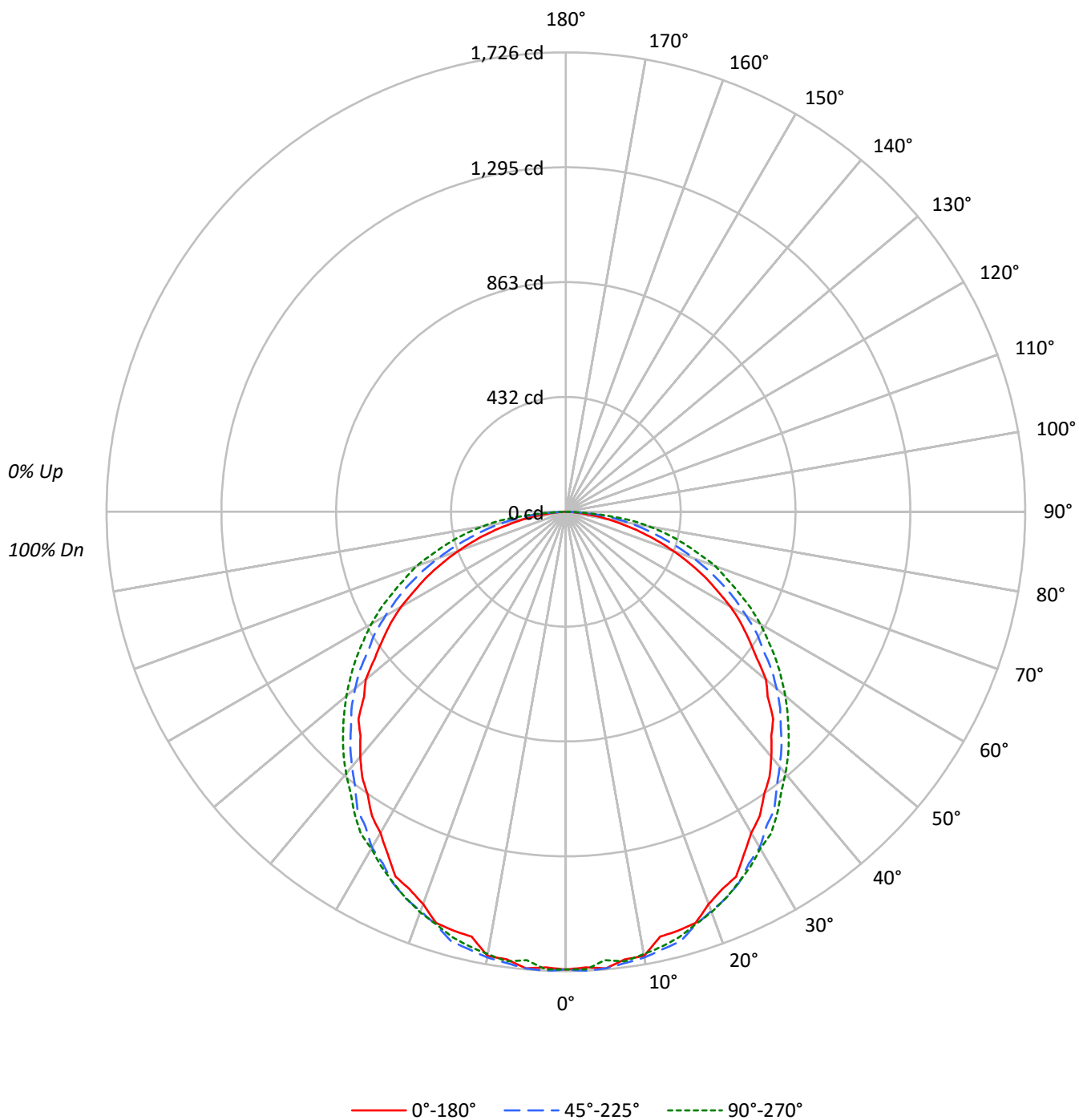
Lumens per Lamp: N/A
Luminaire Lumens: 5021.0 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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
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	63	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	31	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°	5385	5385	5385
5°	5412	5412	5315
10°	5386	5407	5366
15°	5283	5412	5360
20°	5227	5320	5334
25°	5227	5316	5309
30°	5037	5269	5285
35°	4961	5219	5292
40°	4911	5108	5248
45°	4879	5055	5245
50°	4783	5034	5242
55°	4589	4940	5255
60°	4480	4902	5284
65°	4252	4832	5300
70°	3921	4677	5480
75°	3484	4469	5531
80°	2896	4384	5734
85°	1771	3923	4847

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5935 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.1	3.2
10°-20°	466.0	9.3
20°-30°	702.9	14.0
30°-40°	844.2	16.8
40°-50°	881.2	17.6
50°-60°	811.4	16.2
60°-70°	640.7	12.8
70°-80°	394.6	7.9
80°-90°	117.0	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°	1331.9	26.5
0°-40°	2176.1	43.3
0°-60°	3868.7	77.1
0°-90°	5021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5021.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1720	1720	1720	1720	1720	
5°	1722	1705	1722	1724	1691	163
15°	1630	1652	1669	1662	1653	461
25°	1513	1524	1539	1532	1537	689
35°	1298	1321	1365	1372	1384	816
45°	1102	1110	1142	1166	1184	843
55°	841	863	905	946	963	755
65°	574	594	652	699	715	565
75°	288	316	369	428	457	306
85°	49	71	109	130	135	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1719.7	1719.7	1719.7	1719.7	1719.7
2.5°	1713.3	1731.5	1726.1	1729.3	1720.8
5°	1721.8	1704.7	1721.8	1724.0	1690.8
7.5°	1696.1	1698.3	1710.1	1713.3	1703.6
10°	1694.0	1700.4	1700.4	1689.7	1687.6
12.5°	1635.1	1667.2	1683.3	1690.8	1672.6
15°	1629.7	1652.2	1669.4	1661.9	1653.3
17.5°	1620.1	1613.7	1625.5	1634.0	1624.4
20°	1568.7	1579.4	1596.6	1598.7	1600.8
22.5°	1534.4	1537.7	1571.9	1575.1	1570.9
25°	1513.0	1523.7	1538.7	1532.3	1536.6
27.5°	1449.9	1475.6	1489.5	1502.3	1502.3
30°	1393.1	1423.1	1457.3	1461.6	1461.6
32.5°	1355.6	1376.0	1401.7	1410.2	1433.8
35°	1297.8	1321.4	1365.3	1371.7	1384.5
37.5°	1257.1	1280.7	1301.0	1323.5	1328.9
40°	1201.4	1226.1	1249.6	1275.3	1283.9
42.5°	1142.5	1168.2	1199.3	1226.1	1236.8
45°	1101.8	1110.4	1141.5	1166.1	1184.3
47.5°	1028.0	1052.6	1092.2	1123.3	1130.8
50°	981.9	991.6	1033.3	1075.1	1076.1
52.5°	904.8	933.7	974.4	1014.0	1019.4
55°	840.6	863.1	904.8	945.5	962.6
57.5°	780.6	797.7	851.3	892.0	901.6
60°	715.3	733.5	782.7	829.9	843.8
62.5°	639.3	665.0	718.5	763.5	782.7
65°	573.9	594.3	652.1	699.2	715.3
67.5°	500.1	527.9	582.5	635.0	652.1
70°	428.3	456.2	510.8	565.4	598.6
72.5°	357.6	386.6	441.2	504.3	522.5
75°	288.0	315.9	369.4	428.3	457.2
77.5°	219.5	249.5	304.1	363.0	390.8
80°	160.6	184.2	243.1	294.5	318.0
82.5°	99.6	124.2	178.8	227.0	247.4
85°	49.3	70.7	109.2	129.6	134.9
87.5°	15.0	22.5	34.3	45.0	51.4
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	17.32	18.98	17.68	19.29	19.61	18.14	19.80	18.50	20.12	20.43
	3H	19.07	20.58	19.45	20.90	21.26	20.29	21.79	20.66	22.12	22.48
	4H	19.68	21.11	20.08	21.45	21.83	21.20	22.62	21.60	22.97	23.34
	6H	20.09	21.41	20.50	21.77	22.16	22.00	23.32	22.41	23.69	24.08
	8H	20.19	21.45	20.61	21.84	22.24	22.32	23.59	22.75	23.97	24.37
	12H	20.23	21.45	20.66	21.83	22.25	22.53	23.74	22.96	24.12	24.55
4H	2H	18.11	19.53	18.50	19.88	20.25	18.74	20.17	19.14	20.51	20.89
	3H	20.08	21.28	20.49	21.68	22.08	21.12	22.32	21.53	22.72	23.12
	4H	20.81	21.90	21.24	22.31	22.75	22.19	23.28	22.62	23.69	24.12
	6H	21.33	22.28	21.78	22.72	23.18	23.16	24.11	23.61	24.55	25.00
	8H	21.47	22.36	21.93	22.81	23.27	23.56	24.45	24.01	24.89	25.35
	12H	21.55	22.35	22.03	22.83	23.29	23.82	24.63	24.30	25.10	25.57
8H	4H	21.28	22.17	21.74	22.61	23.08	22.48	23.37	22.94	23.81	24.28
	6H	21.93	22.68	22.43	23.16	23.64	23.61	24.35	24.10	24.84	25.31
	8H	22.14	22.81	22.65	23.31	23.80	24.11	24.78	24.62	25.29	25.77
	12H	22.27	22.86	22.77	23.35	23.91	24.48	25.07	24.99	25.56	26.12
12H	4H	21.37	22.17	21.85	22.65	23.12	22.51	23.31	22.98	23.78	24.25
	6H	22.07	22.74	22.58	23.25	23.73	23.65	24.32	24.16	24.83	25.31
	8H	22.35	22.94	22.85	23.43	23.99	24.23	24.82	24.73	25.31	25.87