

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: P1586474

Luminaire Tested: 22CZSP-52-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586474
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-L835-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

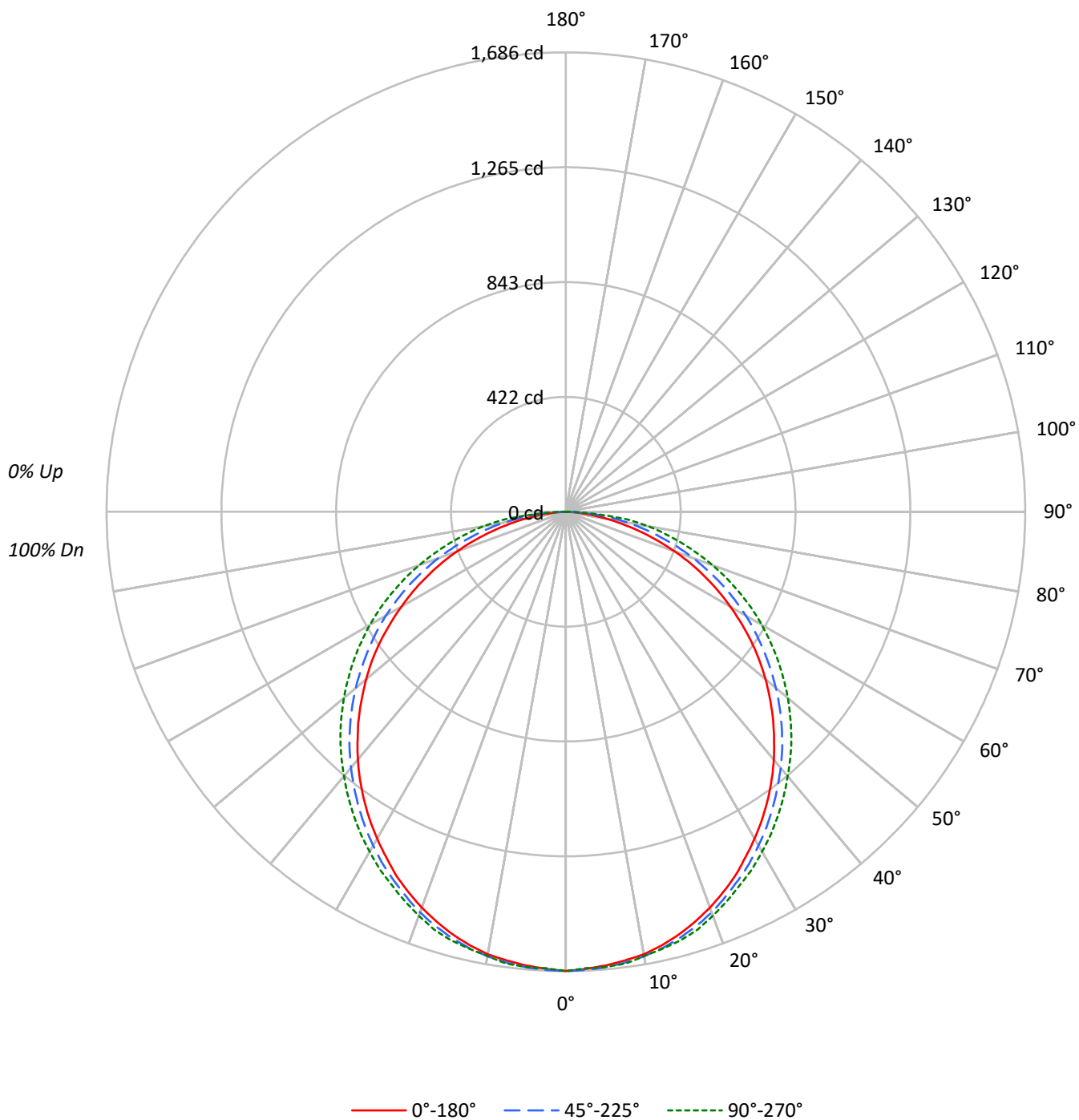
Lumens per Lamp: N/A
Luminaire Lumens: 4921.0 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	5278	5278	5278
5°	5254	5274	5271
10°	5243	5267	5263
15°	5205	5247	5279
20°	5153	5214	5257
25°	5089	5160	5223
30°	5009	5114	5208
35°	4937	5065	5193
40°	4855	5014	5177
45°	4763	4963	5183
50°	4661	4903	5181
55°	4539	4834	5187
60°	4369	4781	5201
65°	4169	4689	5216
70°	3886	4558	5240
75°	3461	4376	5291
80°	2862	4167	5549
85°	1861	3762	4850

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5724 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.4	3.2
10°-20°	456.5	9.3
20°-30°	688.4	14.0
30°-40°	829.2	16.8
40°-50°	866.0	17.6
50°-60°	795.3	16.2
60°-70°	626.4	12.7
70°-80°	384.3	7.8
80°-90°	115.6	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°	1304.3	26.5
0°-40°	2133.5	43.4
0°-60°	3794.7	77.1
0°-90°	4921.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4921.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1686	1686	1686	1686	1686	
5°	1672	1674	1678	1683	1677	159
15°	1606	1609	1619	1628	1628	453
25°	1473	1476	1493	1512	1512	678
35°	1291	1298	1325	1352	1358	808
45°	1076	1087	1121	1160	1170	829
55°	831	847	885	935	950	742
65°	563	582	633	686	704	557
75°	286	309	362	419	437	303
85°	52	71	105	133	135	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1685.6	1685.6	1685.6	1685.6	1685.6
2.5°	1679.1	1682.3	1683.4	1684.5	1676.9
5°	1671.5	1673.7	1678.0	1683.4	1676.9
7.5°	1660.7	1662.9	1668.3	1675.9	1672.6
10°	1648.9	1649.9	1656.4	1661.8	1655.3
12.5°	1629.4	1632.7	1640.2	1644.5	1642.4
15°	1605.7	1608.9	1618.6	1628.3	1628.3
17.5°	1577.6	1581.9	1593.8	1606.7	1607.8
20°	1546.3	1549.5	1564.6	1577.6	1577.6
22.5°	1510.6	1515.0	1530.1	1544.1	1546.3
25°	1472.9	1476.1	1493.4	1511.7	1511.7
27.5°	1428.6	1435.1	1456.7	1475.0	1479.3
30°	1385.4	1390.8	1414.5	1437.2	1440.5
32.5°	1340.0	1346.5	1371.4	1396.2	1401.6
35°	1291.4	1297.9	1324.9	1351.9	1358.4
37.5°	1240.7	1248.3	1276.3	1307.6	1314.1
40°	1187.8	1196.4	1226.7	1260.1	1266.6
42.5°	1131.6	1143.5	1175.9	1210.5	1220.2
45°	1075.5	1087.4	1120.8	1159.7	1170.5
47.5°	1016.1	1030.1	1064.7	1105.7	1117.6
50°	956.7	970.7	1006.4	1050.6	1063.6
52.5°	896.2	910.3	947.0	993.4	1007.5
55°	831.4	846.6	885.4	935.1	950.2
57.5°	764.5	783.9	825.0	875.7	890.8
60°	697.6	717.0	763.4	813.1	830.4
62.5°	631.7	650.0	697.6	750.5	768.8
65°	562.6	582.0	632.8	685.7	704.0
67.5°	494.6	514.0	564.7	619.8	639.2
70°	424.4	446.0	497.8	552.9	572.3
72.5°	354.2	376.9	429.8	485.9	504.3
75°	286.1	308.8	361.7	419.0	437.3
77.5°	219.2	244.0	295.9	354.2	371.5
80°	158.7	182.5	231.1	288.3	307.7
82.5°	101.5	122.0	170.6	224.6	238.6
85°	51.8	71.3	104.7	132.8	135.0
87.5°	16.2	22.7	34.6	51.8	52.9
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	17.26	18.92	17.62	19.23	19.55	18.09	19.75	18.45	20.06	20.38
	3H	19.01	20.52	19.39	20.85	21.21	20.20	21.71	20.58	22.04	22.40
	4H	19.63	21.05	20.03	21.40	21.78	21.09	22.52	21.49	22.86	23.24
	6H	20.04	21.36	20.45	21.73	22.12	21.87	23.20	22.28	23.56	23.95
	8H	20.15	21.41	20.57	21.80	22.20	22.19	23.46	22.62	23.85	24.24
	12H	20.20	21.41	20.63	21.79	22.22	22.41	23.62	22.83	24.00	24.43
4H	2H	18.03	19.45	18.43	19.80	20.17	18.68	20.10	19.07	20.45	20.82
	3H	20.01	21.21	20.42	21.60	22.00	21.03	22.23	21.44	22.63	23.02
	4H	20.74	21.83	21.17	22.24	22.68	22.08	23.17	22.51	23.58	24.02
	6H	21.27	22.22	21.72	22.66	23.12	23.04	23.99	23.49	24.43	24.88
	8H	21.42	22.31	21.88	22.75	23.22	23.43	24.32	23.89	24.77	25.23
	12H	21.50	22.31	21.98	22.78	23.25	23.71	24.51	24.19	24.99	25.46
8H	4H	21.20	22.09	21.66	22.54	23.00	22.37	23.26	22.83	23.71	24.17
	6H	21.86	22.61	22.36	23.09	23.57	23.48	24.23	23.98	24.71	25.19
	8H	22.07	22.74	22.58	23.25	23.73	24.00	24.66	24.50	25.17	25.65
	12H	22.21	22.81	22.72	23.30	23.85	24.38	24.97	24.89	25.46	26.02
12H	4H	21.29	22.10	21.77	22.57	23.04	22.40	23.20	22.88	23.67	24.14
	6H	22.00	22.67	22.50	23.17	23.65	23.53	24.20	24.04	24.71	25.19
	8H	22.27	22.87	22.78	23.36	23.91	24.11	24.70	24.61	25.19	25.75