

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: P1586719

Luminaire Tested: 22CZSP-A-52-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586719
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-L845
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 5000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

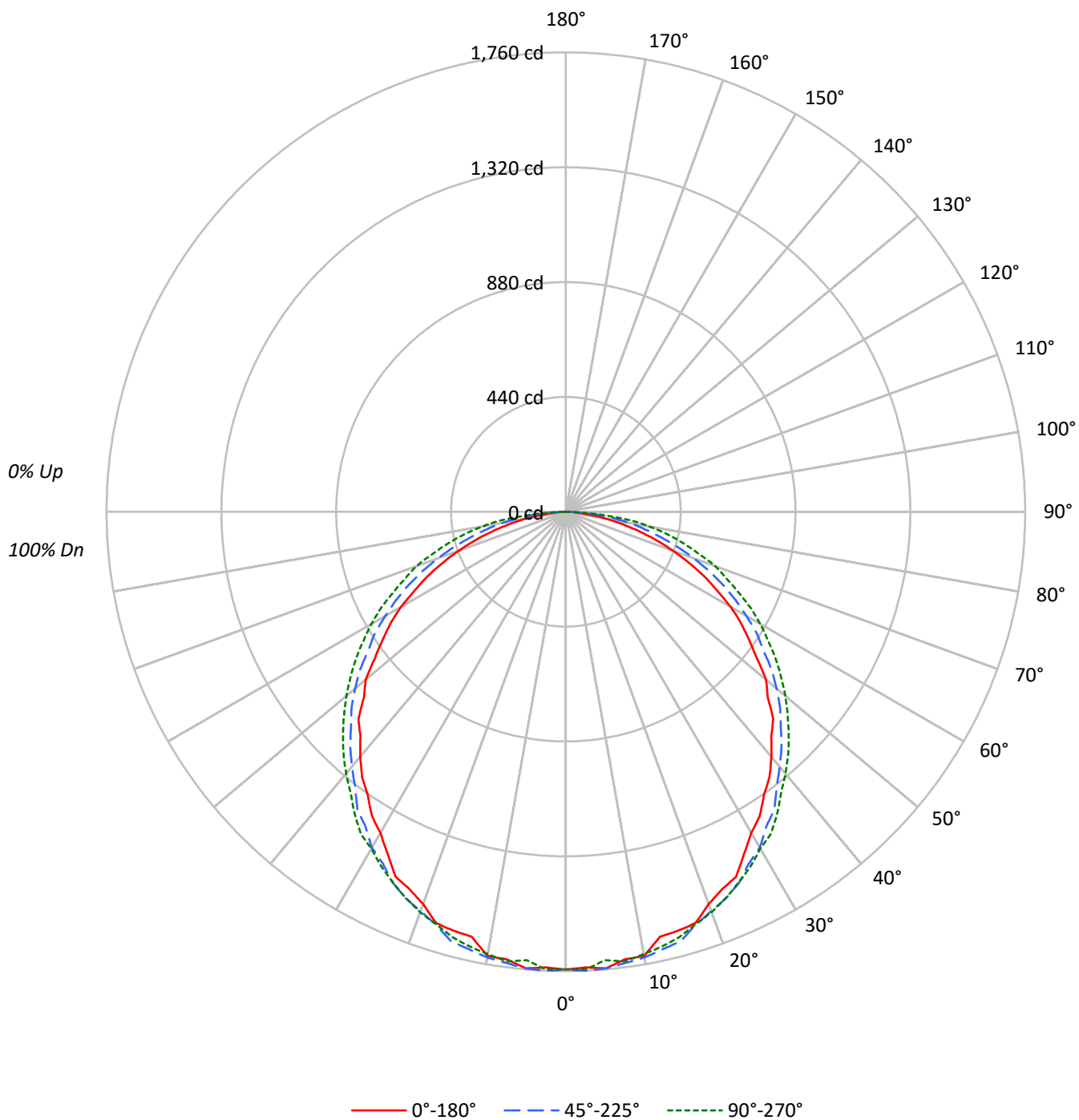
Lumens per Lamp: N/A
Luminaire Lumens: 5120.0 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	5491	5491	5491
5°	5519	5519	5419
10°	5492	5513	5472
15°	5388	5518	5465
20°	5330	5425	5440
25°	5331	5421	5414
30°	5137	5373	5389
35°	5059	5322	5397
40°	5008	5209	5352
45°	4976	5155	5348
50°	4878	5133	5346
55°	4679	5037	5359
60°	4568	4999	5388
65°	4337	4927	5404
70°	3999	4768	5588
75°	3553	4558	5640
80°	2954	4470	5848
85°	1804	4002	4944

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6050 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.3	3.2
10°-20°	475.2	9.3
20°-30°	716.7	14.0
30°-40°	860.8	16.8
40°-50°	898.6	17.6
50°-60°	827.4	16.2
60°-70°	653.4	12.8
70°-80°	402.4	7.9
80°-90°	119.3	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°	1358.2	26.5
0°-40°	2219.0	43.3
0°-60°	3945.0	77.1
0°-90°	5120.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5120.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1754	1754	1754	1754	1754	
5°	1756	1738	1756	1758	1724	166
15°	1662	1685	1702	1695	1686	470
25°	1543	1554	1569	1562	1567	703
35°	1323	1347	1392	1399	1412	832
45°	1124	1132	1164	1189	1208	859
55°	857	880	923	964	982	770
65°	585	606	665	713	729	576
75°	294	322	377	437	466	312
85°	50	72	111	132	138	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1753.6	1753.6	1753.6	1753.6	1753.6
2.5°	1747.0	1765.6	1760.2	1763.4	1754.7
5°	1755.8	1738.3	1755.8	1758.0	1724.1
7.5°	1729.6	1731.8	1743.8	1747.0	1737.2
10°	1727.4	1733.9	1733.9	1723.0	1720.8
12.5°	1667.3	1700.1	1716.5	1724.1	1705.6
15°	1661.9	1684.8	1702.3	1694.6	1685.9
17.5°	1652.1	1645.5	1657.5	1666.2	1656.4
20°	1599.6	1610.6	1628.0	1630.2	1632.4
22.5°	1564.7	1568.0	1602.9	1606.2	1601.8
25°	1542.9	1553.8	1569.1	1562.5	1566.9
27.5°	1478.4	1504.6	1518.8	1531.9	1531.9
30°	1420.6	1451.1	1486.1	1490.4	1490.4
32.5°	1382.4	1403.1	1429.3	1438.0	1462.1
35°	1323.4	1347.4	1392.2	1398.7	1411.8
37.5°	1281.9	1305.9	1326.7	1349.6	1355.1
40°	1225.1	1250.2	1274.3	1300.5	1309.2
42.5°	1165.1	1191.3	1222.9	1250.2	1261.1
45°	1123.6	1132.3	1164.0	1189.1	1207.6
47.5°	1048.2	1073.3	1113.7	1145.4	1153.1
50°	1001.3	1011.1	1053.7	1096.3	1097.4
52.5°	922.7	952.1	993.6	1034.0	1039.5
55°	857.1	880.1	922.7	964.2	981.6
57.5°	796.0	813.5	868.1	909.6	919.4
60°	729.4	748.0	798.2	846.2	860.4
62.5°	651.9	678.1	732.7	778.5	798.2
65°	585.3	606.0	665.0	713.0	729.4
67.5°	509.9	538.3	594.0	647.5	665.0
70°	436.8	465.2	520.8	576.5	610.4
72.5°	364.7	394.2	449.9	514.3	532.8
75°	293.7	322.1	376.7	436.8	466.2
77.5°	223.8	254.4	310.1	370.2	398.5
80°	163.8	187.8	247.9	300.3	324.3
82.5°	101.5	126.7	182.3	231.5	252.2
85°	50.2	72.1	111.4	132.1	137.6
87.5°	15.3	22.9	34.9	45.9	52.4
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	17.38	19.05	17.75	19.36	19.67	18.21	19.87	18.57	20.18	20.50
	3H	19.14	20.65	19.51	20.97	21.33	20.35	21.86	20.73	22.19	22.55
	4H	19.75	21.17	20.15	21.52	21.90	21.27	22.69	21.67	23.04	23.41
	6H	20.15	21.48	20.56	21.84	22.23	22.07	23.39	22.48	23.75	24.14
	8H	20.26	21.52	20.68	21.91	22.31	22.39	23.65	22.81	24.04	24.44
	12H	20.30	21.51	20.73	21.89	22.32	22.60	23.81	23.03	24.19	24.62
4H	2H	18.18	19.60	18.57	19.95	20.32	18.81	20.24	19.21	20.58	20.96
	3H	20.15	21.35	20.56	21.74	22.14	21.19	22.39	21.60	22.79	23.19
	4H	20.88	21.97	21.31	22.38	22.81	22.26	23.35	22.69	23.76	24.19
	6H	21.40	22.35	21.85	22.79	23.25	23.23	24.18	23.68	24.62	25.07
	8H	21.54	22.43	22.00	22.87	23.34	23.62	24.52	24.08	24.96	25.42
	12H	21.62	22.42	22.10	22.89	23.36	23.89	24.69	24.37	25.17	25.64
8H	4H	21.35	22.24	21.80	22.68	23.14	22.55	23.44	23.01	23.88	24.35
	6H	22.00	22.75	22.49	23.23	23.71	23.67	24.42	24.17	24.90	25.38
	8H	22.21	22.87	22.71	23.38	23.86	24.18	24.85	24.69	25.35	25.84
	12H	22.34	22.93	22.84	23.42	23.98	24.55	25.14	25.06	25.63	26.19
12H	4H	21.44	22.24	21.92	22.72	23.18	22.57	23.38	23.05	23.85	24.32
	6H	22.14	22.81	22.65	23.31	23.80	23.72	24.39	24.23	24.90	25.38
	8H	22.41	23.01	22.92	23.49	24.05	24.30	24.89	24.80	25.38	25.94