

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: P1586718

Luminaire Tested: 22CZSP-A-52-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586718
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-A-52-L845-S
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 5000 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

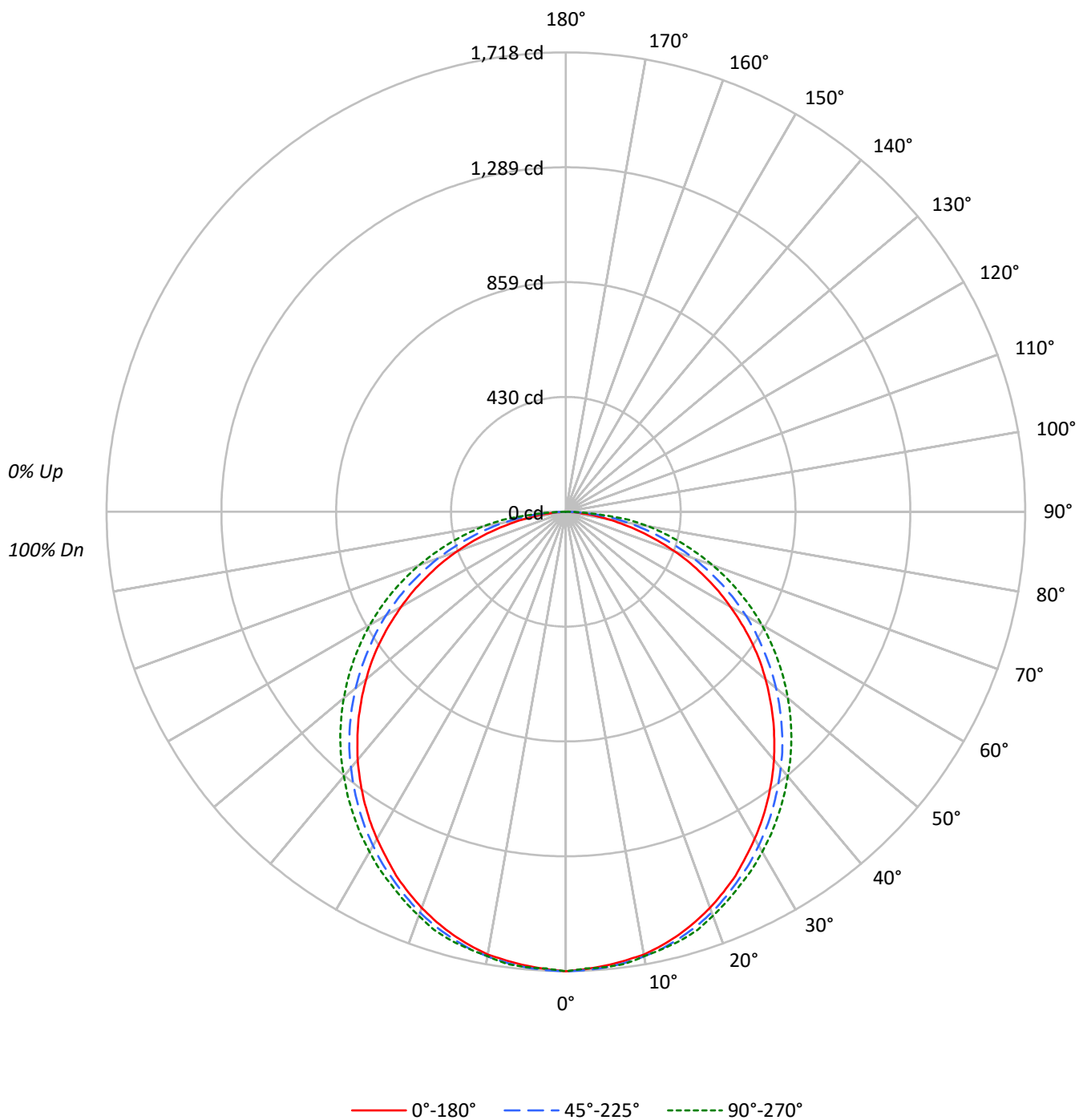
Lumens per Lamp: N/A
Luminaire Lumens: 5017.0 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	5381	5381	5381
5°	5356	5378	5374
10°	5345	5369	5366
15°	5307	5350	5382
20°	5253	5316	5360
25°	5188	5260	5325
30°	5107	5214	5310
35°	5033	5164	5294
40°	4950	5112	5278
45°	4856	5060	5284
50°	4752	4998	5283
55°	4628	4928	5289
60°	4454	4874	5302
65°	4250	4780	5318
70°	3961	4646	5342
75°	3529	4462	5395
80°	2918	4248	5657
85°	1897	3837	4944

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5837 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.5	3.2
10°-20°	465.4	9.3
20°-30°	701.8	14.0
30°-40°	845.4	16.8
40°-50°	882.8	17.6
50°-60°	810.8	16.2
60°-70°	638.6	12.7
70°-80°	391.8	7.8
80°-90°	117.9	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°	1329.7	26.5
0°-40°	2175.1	43.4
0°-60°	3868.7	77.1
0°-90°	5017.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5017.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1718	1718	1718	1718	1718	
5°	1704	1706	1711	1716	1710	162
15°	1637	1640	1650	1660	1660	462
25°	1502	1505	1522	1541	1541	691
35°	1317	1323	1351	1378	1385	824
45°	1096	1109	1143	1182	1193	845
55°	848	863	903	953	969	757
65°	574	593	645	699	718	567
75°	292	315	369	427	446	309
85°	53	73	107	135	138	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1718.5	1718.5	1718.5	1718.5	1718.5
2.5°	1711.9	1715.2	1716.3	1717.4	1709.6
5°	1704.1	1706.3	1710.8	1716.3	1709.6
7.5°	1693.1	1695.3	1700.8	1708.5	1705.2
10°	1681.0	1682.1	1688.7	1694.2	1687.6
12.5°	1661.2	1664.5	1672.2	1676.6	1674.4
15°	1637.0	1640.3	1650.2	1660.1	1660.1
17.5°	1608.4	1612.8	1624.9	1638.1	1639.2
20°	1576.4	1579.7	1595.2	1608.4	1608.4
22.5°	1540.1	1544.5	1559.9	1574.2	1576.4
25°	1501.6	1504.9	1522.5	1541.2	1541.2
27.5°	1456.4	1463.1	1485.1	1503.8	1508.2
30°	1412.4	1417.9	1442.1	1465.3	1468.6
32.5°	1366.2	1372.8	1398.1	1423.4	1428.9
35°	1316.6	1323.2	1350.8	1378.3	1384.9
37.5°	1264.9	1272.6	1301.2	1333.2	1339.8
40°	1211.0	1219.8	1250.6	1284.7	1291.3
42.5°	1153.7	1165.8	1198.8	1234.1	1244.0
45°	1096.5	1108.6	1142.7	1182.3	1193.3
47.5°	1035.9	1050.2	1085.5	1127.3	1139.4
50°	975.4	989.7	1026.0	1071.1	1084.4
52.5°	913.7	928.0	965.5	1012.8	1027.1
55°	847.7	863.1	902.7	953.4	968.8
57.5°	779.4	799.2	841.1	892.8	908.2
60°	711.2	731.0	778.3	829.0	846.6
62.5°	644.0	662.7	711.2	765.1	783.8
65°	573.6	593.4	645.1	699.1	717.8
67.5°	504.2	524.0	575.8	631.9	651.7
70°	432.6	454.7	507.5	563.6	583.5
72.5°	361.1	384.2	438.1	495.4	514.1
75°	291.7	314.8	368.8	427.1	445.9
77.5°	223.5	248.8	301.6	361.1	378.7
80°	161.8	186.0	235.6	293.9	313.7
82.5°	103.5	124.4	173.9	229.0	243.3
85°	52.8	72.7	106.8	135.4	137.6
87.5°	16.5	23.1	35.2	52.8	53.9
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	17.32	18.99	17.69	19.30	19.62	18.15	19.82	18.52	20.13	20.45
	3H	19.08	20.59	19.46	20.91	21.27	20.27	21.78	20.65	22.11	22.46
	4H	19.70	21.12	20.10	21.47	21.84	21.16	22.58	21.56	22.93	23.30
	6H	20.11	21.43	20.52	21.79	22.18	21.94	23.26	22.35	23.63	24.02
	8H	20.22	21.48	20.64	21.87	22.27	22.26	23.52	22.69	23.91	24.31
	12H	20.27	21.48	20.70	21.86	22.29	22.47	23.68	22.90	24.06	24.49
4H	2H	18.10	19.52	18.49	19.87	20.24	18.74	20.17	19.14	20.51	20.89
	3H	20.07	21.27	20.48	21.67	22.07	21.10	22.30	21.51	22.69	23.09
	4H	20.81	21.90	21.24	22.31	22.74	22.15	23.24	22.58	23.65	24.08
	6H	21.34	22.29	21.79	22.73	23.18	23.10	24.05	23.56	24.49	24.95
	8H	21.49	22.38	21.94	22.82	23.28	23.50	24.39	23.96	24.83	25.30
	12H	21.57	22.37	22.05	22.85	23.32	23.78	24.58	24.26	25.05	25.52
8H	4H	21.27	22.16	21.73	22.60	23.07	22.44	23.33	22.90	23.77	24.24
	6H	21.93	22.68	22.42	23.16	23.64	23.55	24.30	24.04	24.78	25.26
	8H	22.14	22.81	22.65	23.31	23.80	24.06	24.73	24.57	25.24	25.72
	12H	22.28	22.87	22.79	23.36	23.92	24.45	25.04	24.95	25.53	26.09
12H	4H	21.36	22.16	21.84	22.64	23.11	22.46	23.27	22.94	23.74	24.21
	6H	22.06	22.73	22.57	23.24	23.72	23.60	24.27	24.10	24.77	25.26
	8H	22.34	22.93	22.85	23.42	23.98	24.18	24.77	24.68	25.26	25.82