

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: P1586674

Luminaire Tested: 22CZSP-A-47-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586674
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-47-L835-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 4500 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

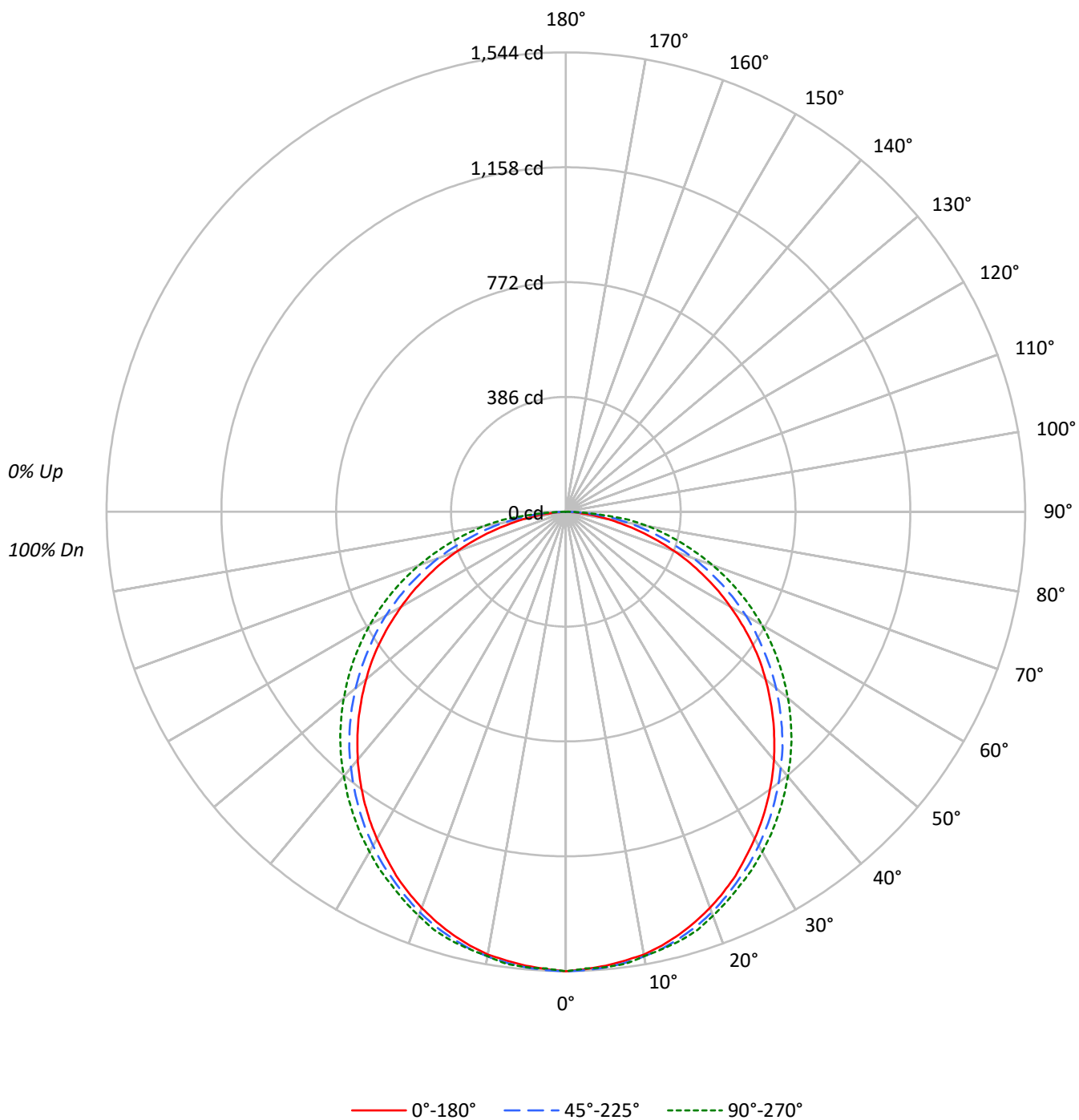
Lumens per Lamp: N/A
Luminaire Lumens: 4509.0 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 33.1
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°	4836	4836	4836
5°	4814	4833	4830
10°	4804	4826	4823
15°	4769	4808	4837
20°	4721	4777	4817
25°	4663	4728	4786
30°	4590	4686	4772
35°	4523	4641	4758
40°	4449	4595	4744
45°	4364	4548	4749
50°	4270	4492	4748
55°	4159	4429	4753
60°	4003	4381	4765
65°	3820	4296	4780
70°	3560	4176	4801
75°	3172	4009	4848
80°	2622	3817	5085
85°	1707	3449	4444

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5247 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.1	3.2
10°-20°	418.2	9.3
20°-30°	630.8	14.0
30°-40°	759.8	16.8
40°-50°	793.4	17.6
50°-60°	728.7	16.2
60°-70°	573.9	12.7
70°-80°	352.1	7.8
80°-90°	106.0	2.4
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°	1195.1	26.5
0°-40°	1954.8	43.4
0°-60°	3477.0	77.1
0°-90°	4509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4509.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1544	1544	1544	1544	1544	
5°	1532	1534	1538	1542	1536	146
15°	1471	1474	1483	1492	1492	415
25°	1350	1352	1368	1385	1385	621
35°	1183	1189	1214	1239	1245	740
45°	985	996	1027	1063	1072	760
55°	762	776	811	857	871	680
65°	516	533	580	628	645	510
75°	262	283	331	384	401	278
85°	48	65	96	122	124	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1544.5	1544.5	1544.5	1544.5	1544.5
2.5°	1538.5	1541.5	1542.5	1543.5	1536.5
5°	1531.6	1533.6	1537.5	1542.5	1536.5
7.5°	1521.7	1523.7	1528.6	1535.5	1532.6
10°	1510.8	1511.8	1517.7	1522.7	1516.7
12.5°	1493.0	1496.0	1502.9	1506.9	1504.9
15°	1471.2	1474.2	1483.1	1492.0	1492.0
17.5°	1445.5	1449.5	1460.4	1472.2	1473.2
20°	1416.8	1419.8	1433.6	1445.5	1445.5
22.5°	1384.2	1388.1	1402.0	1414.8	1416.8
25°	1349.5	1352.5	1368.3	1385.2	1385.2
27.5°	1309.0	1314.9	1334.7	1351.5	1355.5
30°	1269.4	1274.3	1296.1	1316.9	1319.9
32.5°	1227.8	1233.8	1256.5	1279.3	1284.2
35°	1183.3	1189.3	1214.0	1238.7	1244.7
37.5°	1136.8	1143.7	1169.5	1198.2	1204.1
40°	1088.3	1096.3	1124.0	1154.6	1160.6
42.5°	1036.9	1047.8	1077.5	1109.1	1118.0
45°	985.4	996.3	1027.0	1062.6	1072.5
47.5°	931.0	943.9	975.5	1013.1	1024.0
50°	876.6	889.5	922.1	962.7	974.6
52.5°	821.2	834.1	867.7	910.2	923.1
55°	761.8	775.7	811.3	856.8	870.7
57.5°	700.5	718.3	755.9	802.4	816.3
60°	639.2	657.0	699.5	745.0	760.8
62.5°	578.8	595.6	639.2	687.6	704.5
65°	515.5	533.3	579.8	628.3	645.1
67.5°	453.1	471.0	517.5	567.9	585.7
70°	388.8	408.6	456.1	506.6	524.4
72.5°	324.5	345.3	393.8	445.2	462.0
75°	262.2	283.0	331.4	383.9	400.7
77.5°	200.8	223.6	271.1	324.5	340.4
80°	145.4	167.2	211.7	264.2	282.0
82.5°	93.0	111.8	156.3	205.8	218.7
85°	47.5	65.3	96.0	121.7	123.7
87.5°	14.8	20.8	31.7	47.5	48.5
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	16.95	18.62	17.32	18.93	19.24	17.78	19.45	18.15	19.76	20.07
	3H	18.71	20.22	19.09	20.54	20.90	19.90	21.41	20.28	21.73	22.09
	4H	19.33	20.75	19.73	21.10	21.47	20.79	22.21	21.19	22.56	22.93
	6H	19.74	21.06	20.15	21.42	21.81	21.57	22.89	21.98	23.26	23.65
	8H	19.85	21.11	20.27	21.50	21.90	21.89	23.15	22.31	23.54	23.94
	12H	19.90	21.11	20.33	21.49	21.92	22.10	23.31	22.53	23.69	24.12
4H	2H	17.73	19.15	18.12	19.50	19.87	18.37	19.79	18.77	20.14	20.52
	3H	19.70	20.90	20.11	21.30	21.70	20.73	21.93	21.14	22.32	22.72
	4H	20.44	21.53	20.87	21.94	22.37	21.78	22.87	22.21	23.28	23.71
	6H	20.97	21.92	21.42	22.36	22.81	22.73	23.68	23.18	24.12	24.58
	8H	21.11	22.01	21.57	22.45	22.91	23.13	24.02	23.59	24.46	24.93
	12H	21.20	22.00	21.68	22.48	22.94	23.41	24.21	23.88	24.68	25.15
8H	4H	20.90	21.79	21.36	22.23	22.70	22.07	22.96	22.53	23.40	23.87
	6H	21.56	22.30	22.05	22.79	23.26	23.18	23.92	23.67	24.41	24.89
	8H	21.77	22.44	22.28	22.94	23.43	23.69	24.36	24.20	24.87	25.35
	12H	21.91	22.50	22.41	22.99	23.55	24.08	24.67	24.58	25.16	25.72
12H	4H	20.99	21.79	21.47	22.27	22.73	22.09	22.90	22.57	23.37	23.84
	6H	21.69	22.36	22.20	22.87	23.35	23.23	23.90	23.73	24.40	24.89
	8H	21.97	22.56	22.48	23.05	23.61	23.81	24.40	24.31	24.89	25.45