

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: P1587714

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-47-L835-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 4500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

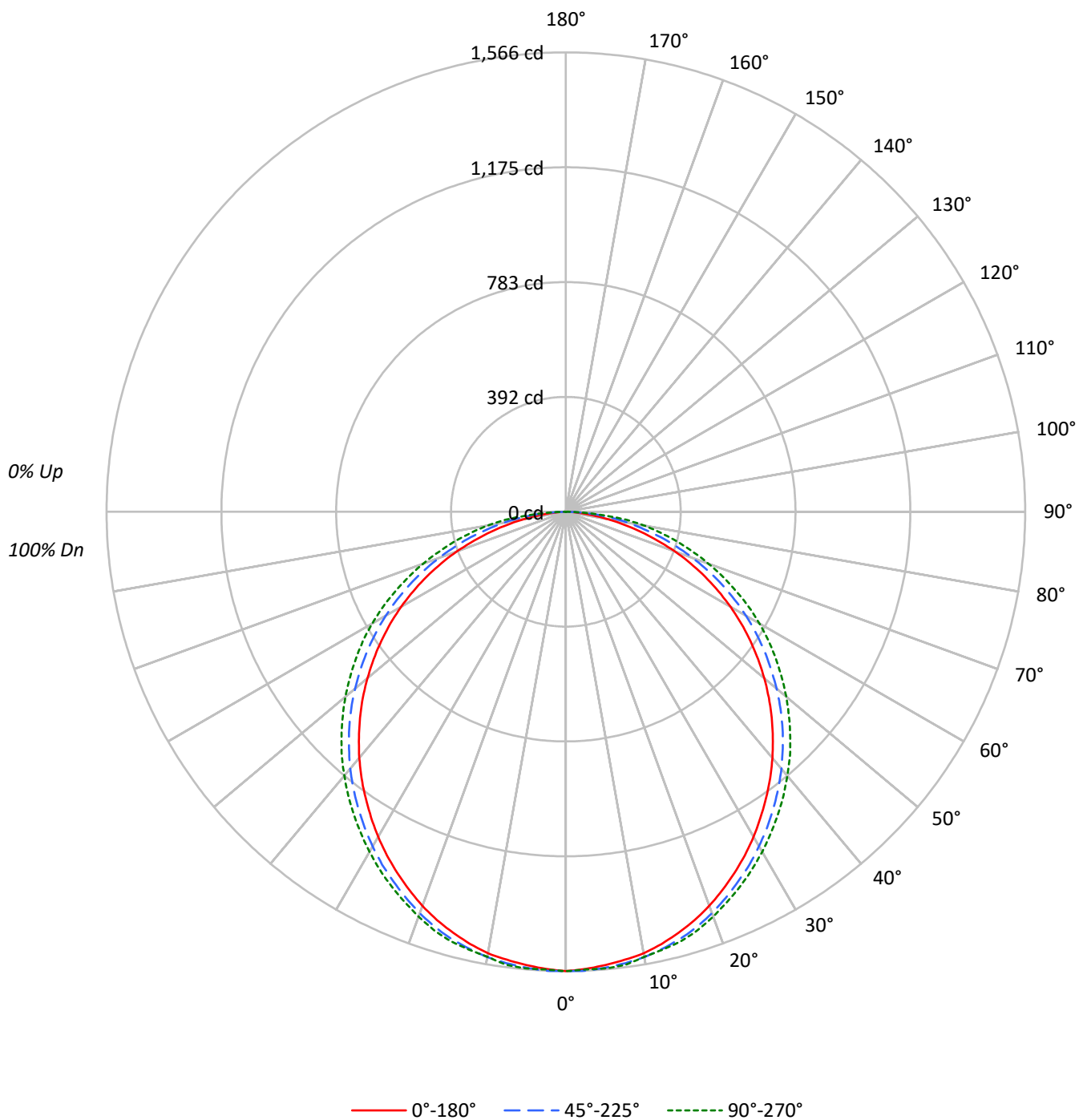
Lumens per Lamp: N/A
Luminaire Lumens: 4555.0 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	94	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	66	61		69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53		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	45	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4903	4903	4903
5°	4876	4904	4913
10°	4860	4901	4898
15°	4816	4886	4914
20°	4764	4852	4894
25°	4696	4804	4865
30°	4627	4762	4840
35°	4551	4716	4817
40°	4478	4674	4803
45°	4396	4626	4791
50°	4301	4568	4778
55°	4194	4509	4772
60°	4063	4443	4774
65°	3877	4349	4748
70°	3625	4216	4737
75°	3212	4054	4754
80°	2615	3852	4894
85°	1689	3557	4225

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4961 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	3.3
10°-20°	424.3	9.3
20°-30°	639.8	14.0
30°-40°	769.8	16.9
40°-50°	803.0	17.6
50°-60°	736.0	16.2
60°-70°	578.0	12.7
70°-80°	351.8	7.7
80°-90°	104.1	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°	1212.3	26.6
0°-40°	1982.2	43.5
0°-60°	3521.2	77.3
0°-90°	4555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4555.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1566	1566	1566	1566	1566	
5°	1551	1561	1560	1558	1563	147
15°	1486	1500	1507	1509	1516	419
25°	1359	1378	1390	1399	1408	626
35°	1191	1209	1234	1251	1260	745
45°	993	1013	1045	1069	1082	765
55°	768	788	826	859	874	686
65°	523	543	587	626	641	518
75°	266	290	335	375	393	282
85°	47	67	99	111	118	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1565.9	1565.9	1565.9	1565.9	1565.9
2.5°	1560.0	1567.8	1565.9	1559.0	1561.9
5°	1551.2	1561.0	1560.0	1558.0	1562.9
7.5°	1540.4	1551.2	1552.1	1552.1	1558.0
10°	1528.6	1539.4	1541.4	1538.4	1540.4
12.5°	1509.0	1521.8	1525.7	1525.7	1528.6
15°	1485.5	1500.2	1507.1	1509.0	1515.9
17.5°	1460.0	1475.7	1484.5	1489.4	1495.3
20°	1429.6	1446.3	1456.1	1462.0	1468.8
22.5°	1395.4	1414.0	1424.7	1430.6	1438.5
25°	1359.1	1377.7	1390.5	1399.3	1408.1
27.5°	1320.9	1338.5	1356.2	1366.9	1374.8
30°	1279.7	1298.3	1317.0	1330.7	1338.5
32.5°	1235.6	1255.2	1276.8	1291.5	1300.3
35°	1190.6	1209.2	1233.7	1251.3	1260.1
37.5°	1144.5	1164.1	1189.6	1208.2	1219.0
40°	1095.5	1116.1	1143.5	1164.1	1174.9
42.5°	1044.6	1064.2	1094.5	1118.0	1130.8
45°	992.6	1013.2	1044.6	1069.1	1081.8
47.5°	938.7	958.3	992.6	1021.0	1031.8
50°	882.9	901.5	937.7	968.1	980.9
52.5°	826.0	845.6	881.9	914.2	927.9
55°	768.2	787.8	826.0	859.4	874.1
57.5°	709.4	729.0	768.2	802.5	820.2
60°	648.7	668.3	709.4	744.7	762.3
62.5°	586.0	606.5	648.7	684.9	703.6
65°	523.3	542.9	586.9	626.1	640.8
67.5°	460.5	480.1	523.3	562.5	580.1
70°	395.9	418.4	460.5	501.7	517.4
72.5°	328.3	353.7	395.9	439.0	454.7
75°	265.5	290.0	335.1	375.3	392.9
77.5°	203.8	230.3	272.4	313.6	331.2
80°	145.0	170.5	213.6	252.8	271.4
82.5°	92.1	114.6	157.8	193.0	206.8
85°	47.0	66.6	99.0	110.7	117.6
87.5°	13.7	23.5	35.3	44.1	49.0
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	17.02	18.68	17.39	19.00	19.31	17.76	19.42	18.12	19.73	20.05
	3H	18.79	20.30	19.17	20.62	20.98	19.84	21.34	20.21	21.67	22.03
	4H	19.41	20.83	19.81	21.18	21.55	20.70	22.12	21.10	22.47	22.84
	6H	19.82	21.14	20.23	21.50	21.89	21.45	22.77	21.86	23.13	23.52
	8H	19.92	21.18	20.35	21.57	21.97	21.74	23.00	22.17	23.39	23.79
	12H	19.97	21.18	20.40	21.56	21.99	21.94	23.14	22.37	23.53	23.95
4H	2H	17.79	19.21	18.19	19.56	19.93	18.36	19.78	18.76	20.13	20.50
	3H	19.78	20.98	20.19	21.37	21.77	20.68	21.87	21.09	22.27	22.67
	4H	20.53	21.61	20.96	22.02	22.46	21.69	22.78	22.13	23.19	23.63
	6H	21.05	22.00	21.51	22.44	22.90	22.60	23.55	23.05	23.99	24.44
	8H	21.20	22.08	21.65	22.53	22.99	22.97	23.86	23.43	24.30	24.76
	12H	21.28	22.08	21.76	22.55	23.02	23.22	24.02	23.70	24.50	24.96
8H	4H	20.97	21.86	21.43	22.30	22.77	21.99	22.88	22.45	23.32	23.79
	6H	21.63	22.38	22.13	22.86	23.34	23.05	23.79	23.54	24.28	24.75
	8H	21.84	22.51	22.35	23.01	23.50	23.52	24.19	24.03	24.69	25.18
	12H	21.98	22.57	22.48	23.06	23.62	23.87	24.46	24.38	24.95	25.51
12H	4H	21.05	21.85	21.53	22.33	22.80	22.02	22.82	22.50	23.29	23.76
	6H	21.76	22.43	22.26	22.93	23.41	23.10	23.77	23.61	24.27	24.76
	8H	22.03	22.62	22.54	23.11	23.67	23.64	24.23	24.14	24.72	25.28