

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: P1587721

Luminaire Tested: 22CZSP-SB-47-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587721
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-47-L850
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 4500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

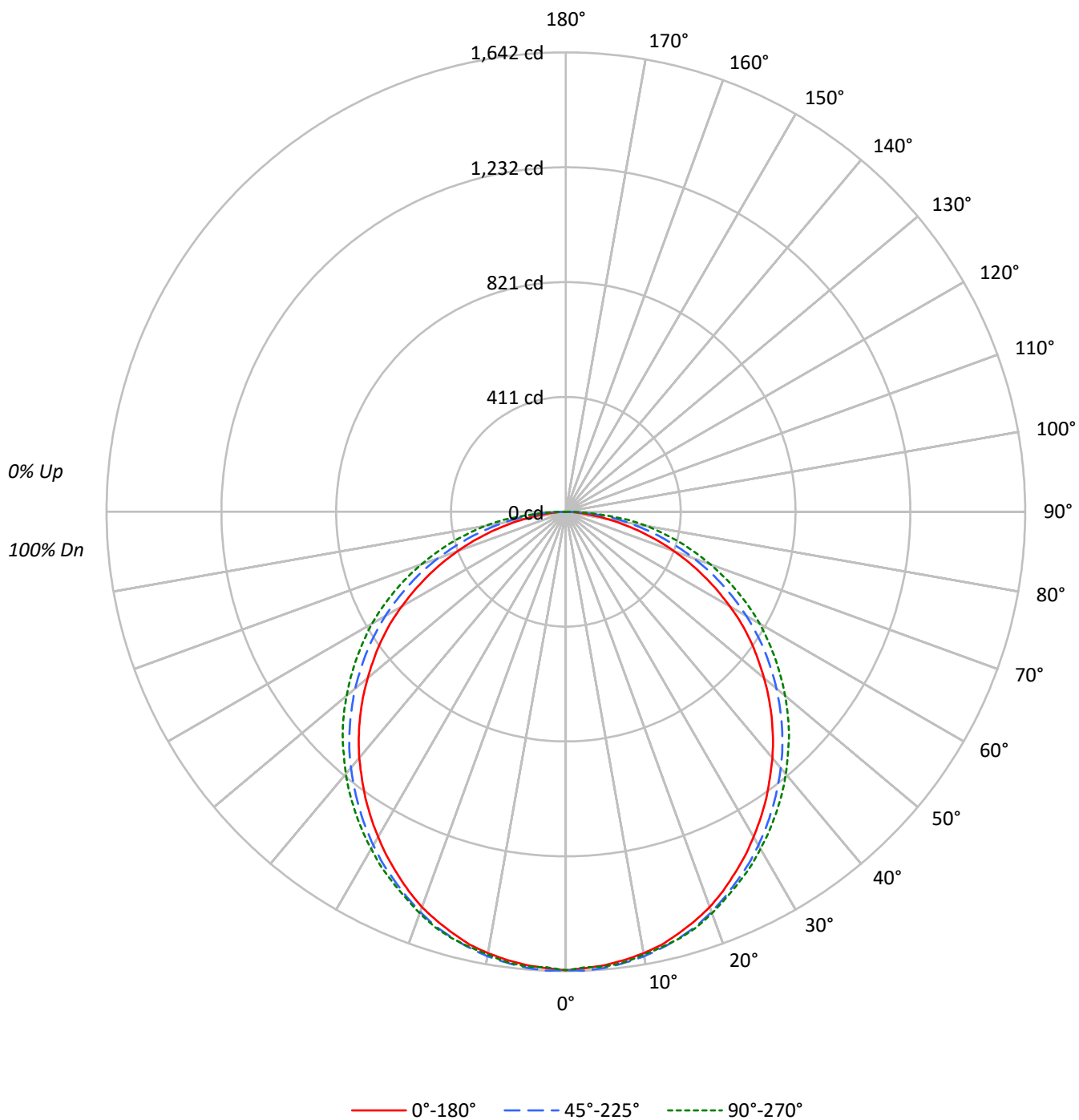
Lumens per Lamp: N/A
Luminaire Lumens: 4782.0 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	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	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°	5131	5131	5131
5°	5113	5141	5128
10°	5094	5130	5110
15°	5056	5108	5115
20°	5012	5072	5089
25°	4931	5018	5053
30°	4853	4977	5032
35°	4774	4929	5014
40°	4695	4886	5002
45°	4607	4841	4997
50°	4507	4788	4984
55°	4403	4735	4984
60°	4240	4665	5014
65°	4042	4575	5017
70°	3771	4448	5032
75°	3355	4285	5119
80°	2755	4106	5311
85°	1818	3855	4800

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5439 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.0	3.2
10°-20°	443.7	9.3
20°-30°	668.7	14.0
30°-40°	805.3	16.8
40°-50°	841.3	17.6
50°-60°	773.0	16.2
60°-70°	608.7	12.7
70°-80°	373.2	7.8
80°-90°	113.2	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°	1267.4	26.5
0°-40°	2072.7	43.3
0°-60°	3687.0	77.1
0°-90°	4782.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4782.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1639	1639	1639	1639	1639	
5°	1626	1630	1636	1634	1632	154
15°	1560	1566	1576	1582	1578	440
25°	1427	1436	1452	1468	1462	658
35°	1249	1265	1289	1313	1312	781
45°	1040	1063	1093	1123	1128	803
55°	807	830	867	905	913	720
65°	546	574	617	659	677	539
75°	277	310	354	397	423	295
85°	51	75	107	119	134	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1638.6	1638.6	1638.6	1638.6	1638.6
2.5°	1632.5	1636.6	1641.6	1633.5	1629.5
5°	1626.5	1629.5	1635.6	1633.5	1631.5
7.5°	1615.3	1617.3	1625.4	1625.4	1623.4
10°	1602.2	1606.2	1613.3	1612.3	1607.2
12.5°	1585.0	1588.0	1596.1	1596.1	1593.1
15°	1559.7	1565.7	1575.8	1581.9	1577.9
17.5°	1533.3	1539.4	1552.6	1558.6	1556.6
20°	1504.0	1509.1	1522.2	1531.3	1527.3
22.5°	1467.6	1473.6	1488.8	1498.9	1494.9
25°	1427.1	1436.2	1452.4	1467.6	1462.5
27.5°	1386.6	1396.7	1416.9	1432.1	1430.1
30°	1342.1	1355.2	1376.5	1395.7	1391.6
32.5°	1296.5	1311.7	1334.0	1354.2	1353.2
35°	1248.9	1265.1	1289.4	1312.7	1311.7
37.5°	1198.3	1217.6	1242.9	1268.2	1269.2
40°	1148.7	1167.0	1195.3	1222.6	1223.6
42.5°	1096.1	1115.3	1145.7	1174.0	1175.1
45°	1040.4	1062.7	1093.1	1123.4	1128.5
47.5°	983.8	1007.0	1038.4	1070.8	1076.9
50°	925.1	949.4	982.8	1017.2	1023.2
52.5°	865.4	890.7	925.1	959.5	968.6
55°	806.6	829.9	867.4	904.8	912.9
57.5°	744.9	766.2	806.6	846.1	856.2
60°	677.1	703.4	744.9	784.4	800.6
62.5°	611.3	639.7	682.2	721.6	739.8
65°	545.5	573.9	617.4	658.9	677.1
67.5°	478.7	508.1	554.6	594.1	614.3
70°	411.9	441.3	485.8	528.3	549.6
72.5°	345.1	376.5	420.0	463.5	484.8
75°	277.3	309.7	354.2	396.7	423.1
77.5°	213.6	244.9	289.5	333.0	355.2
80°	152.8	184.2	227.7	271.2	294.5
82.5°	97.2	126.5	169.0	205.5	226.7
85°	50.6	74.9	107.3	119.4	133.6
87.5°	15.2	29.4	41.5	46.6	57.7
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	17.20	18.86	17.56	19.17	19.49	17.94	19.60	18.31	19.92	20.23
	3H	18.96	20.47	19.33	20.79	21.15	20.04	21.54	20.41	21.87	22.23
	4H	19.58	21.00	19.98	21.35	21.73	20.92	22.34	21.32	22.69	23.07
	6H	19.99	21.32	20.41	21.68	22.07	21.69	23.01	22.10	23.37	23.76
	8H	20.10	21.36	20.52	21.75	22.15	22.00	23.26	22.42	23.65	24.05
	12H	20.15	21.36	20.58	21.74	22.17	22.21	23.42	22.64	23.80	24.23
4H	2H	17.97	19.39	18.36	19.74	20.11	18.54	19.97	18.94	20.31	20.69
	3H	19.96	21.16	20.37	21.55	21.95	20.87	22.07	21.28	22.47	22.87
	4H	20.71	21.80	21.14	22.21	22.65	21.91	22.99	22.34	23.41	23.84
	6H	21.25	22.20	21.70	22.64	23.09	22.84	23.79	23.29	24.23	24.68
	8H	21.40	22.29	21.86	22.73	23.19	23.22	24.11	23.68	24.56	25.02
	12H	21.48	22.29	21.96	22.76	23.23	23.50	24.30	23.98	24.78	25.24
8H	4H	21.16	22.06	21.62	22.50	22.96	22.21	23.10	22.67	23.54	24.01
	6H	21.84	22.59	22.33	23.07	23.55	23.29	24.04	23.78	24.52	25.00
	8H	22.06	22.73	22.57	23.24	23.72	23.78	24.45	24.29	24.95	25.44
	12H	22.21	22.80	22.72	23.29	23.85	24.15	24.75	24.66	25.24	25.79
12H	4H	21.25	22.05	21.73	22.53	22.99	22.24	23.04	22.71	23.51	23.98
	6H	21.97	22.64	22.48	23.14	23.63	23.34	24.01	23.85	24.52	25.00
	8H	22.26	22.85	22.77	23.34	23.90	23.90	24.49	24.40	24.98	25.54