

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: P1587731

Luminaire Tested: 22CZSP-SB-47-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587731
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-L950
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 4500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

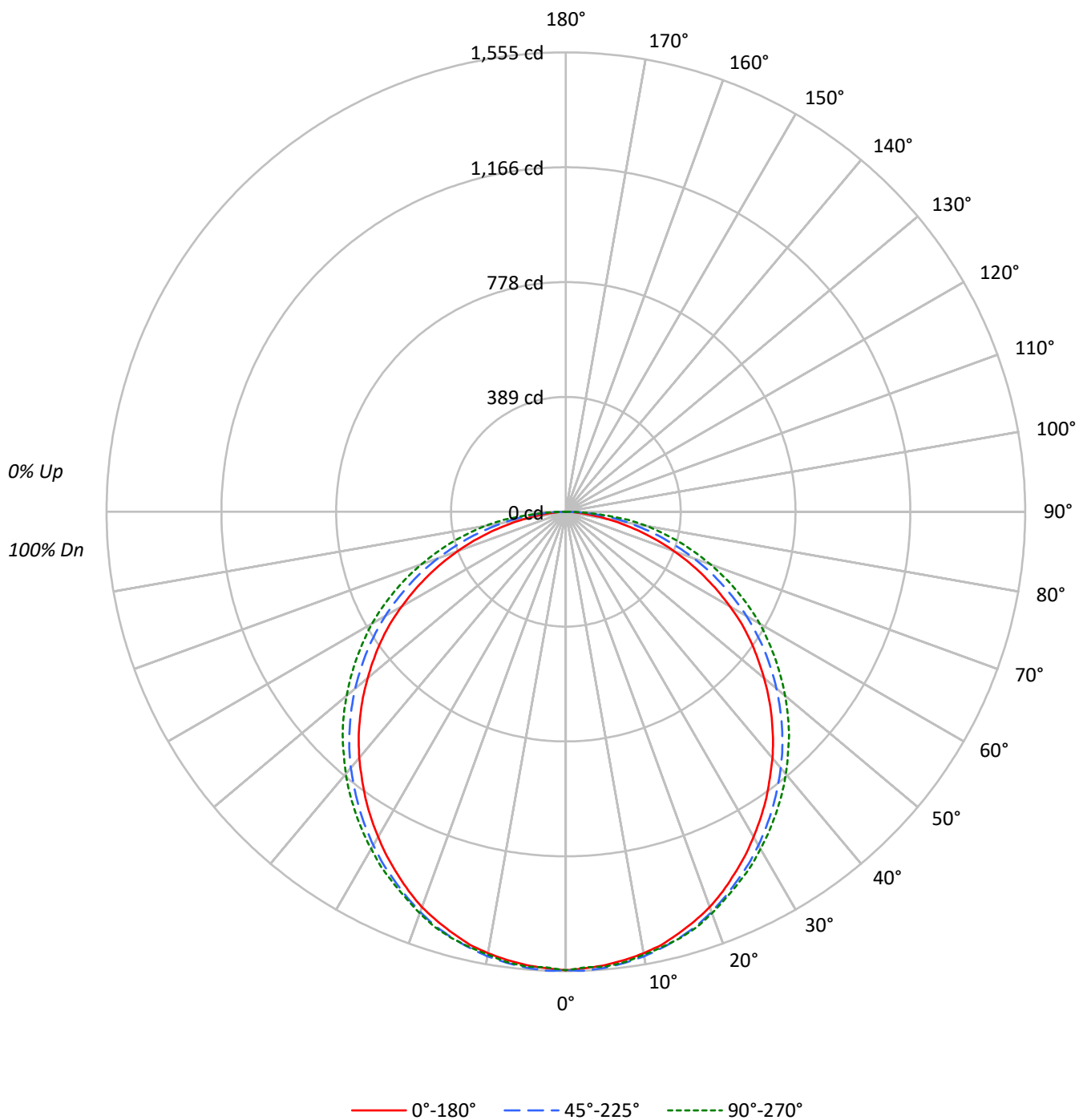
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4529.0 lumens
Efficiency: N/A
Efficacy: 136.8 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	50	30	10
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°	4860	4860	4860
5°	4842	4869	4857
10°	4825	4858	4840
15°	4788	4838	4845
20°	4747	4804	4820
25°	4670	4752	4786
30°	4596	4713	4766
35°	4522	4668	4749
40°	4447	4628	4737
45°	4364	4584	4733
50°	4268	4534	4721
55°	4171	4485	4720
60°	4016	4418	4748
65°	3828	4332	4752
70°	3572	4212	4765
75°	3177	4059	4848
80°	2609	3890	5029
85°	1721	3650	4545

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5151 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.8	3.2
10°-20°	420.2	9.3
20°-30°	633.3	14.0
30°-40°	762.7	16.8
40°-50°	796.8	17.6
50°-60°	732.1	16.2
60°-70°	576.5	12.7
70°-80°	353.4	7.8
80°-90°	107.2	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°	1200.3	26.5
0°-40°	1963.0	43.3
0°-60°	3491.9	77.1
0°-90°	4529.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4529.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1552	1552	1552	1552	1552	
5°	1540	1543	1549	1547	1545	146
15°	1477	1483	1492	1498	1494	417
25°	1352	1360	1376	1390	1385	623
35°	1183	1198	1221	1243	1242	740
45°	985	1006	1035	1064	1069	760
55°	764	786	822	857	865	682
65°	517	544	585	624	641	511
75°	263	293	336	376	401	279
85°	48	71	102	113	126	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1551.9	1551.9	1551.9	1551.9	1551.9
2.5°	1546.2	1550.0	1554.8	1547.1	1543.3
5°	1540.4	1543.3	1549.0	1547.1	1545.2
7.5°	1529.9	1531.8	1539.4	1539.4	1537.5
10°	1517.4	1521.2	1527.9	1527.0	1522.2
12.5°	1501.1	1504.0	1511.6	1511.6	1508.8
15°	1477.1	1482.9	1492.5	1498.2	1494.4
17.5°	1452.2	1458.0	1470.4	1476.2	1474.3
20°	1424.4	1429.2	1441.7	1450.3	1446.5
22.5°	1389.9	1395.7	1410.0	1419.6	1415.8
25°	1351.6	1360.2	1375.5	1389.9	1385.1
27.5°	1313.2	1322.8	1342.0	1356.4	1354.4
30°	1271.0	1283.5	1303.6	1321.9	1318.0
32.5°	1227.9	1242.3	1263.4	1282.6	1281.6
35°	1182.9	1198.2	1221.2	1243.3	1242.3
37.5°	1134.9	1153.1	1177.1	1201.1	1202.0
40°	1088.0	1105.2	1132.1	1157.9	1158.9
42.5°	1038.1	1056.3	1085.1	1111.9	1112.9
45°	985.4	1006.5	1035.2	1064.0	1068.8
47.5°	931.7	953.8	983.5	1014.2	1019.9
50°	876.1	899.1	930.8	963.4	969.1
52.5°	819.6	843.5	876.1	908.7	917.3
55°	764.0	786.0	821.5	857.0	864.6
57.5°	705.5	725.6	764.0	801.4	810.9
60°	641.3	666.2	705.5	742.9	758.2
62.5°	579.0	605.8	646.1	683.5	700.7
65°	516.7	543.5	584.7	624.0	641.3
67.5°	453.4	481.2	525.3	562.7	581.8
70°	390.1	417.9	460.1	500.4	520.5
72.5°	326.9	356.6	397.8	439.0	459.1
75°	262.6	293.3	335.5	375.8	400.7
77.5°	202.3	232.0	274.1	315.4	336.5
80°	144.7	174.5	215.7	256.9	278.9
82.5°	92.0	119.8	160.1	194.6	214.7
85°	47.9	70.9	101.6	113.1	126.5
87.5°	14.4	27.8	39.3	44.1	54.6
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	17.01	18.67	17.37	18.98	19.30	17.75	19.42	18.12	19.73	20.04
	3H	18.77	20.28	19.14	20.60	20.96	19.85	21.36	20.22	21.68	22.04
	4H	19.39	20.82	19.79	21.16	21.54	20.73	22.16	21.13	22.50	22.88
	6H	19.81	21.13	20.22	21.49	21.88	21.50	22.82	21.91	23.18	23.57
	8H	19.91	21.17	20.34	21.56	21.96	21.81	23.07	22.23	23.46	23.86
	12H	19.96	21.17	20.39	21.56	21.98	22.02	23.23	22.45	23.62	24.04
4H	2H	17.78	19.20	18.17	19.55	19.92	18.36	19.78	18.75	20.13	20.50
	3H	19.77	20.97	20.18	21.36	21.76	20.68	21.88	21.09	22.28	22.68
	4H	20.52	21.61	20.95	22.02	22.46	21.72	22.81	22.15	23.22	23.65
	6H	21.06	22.01	21.51	22.45	22.91	22.65	23.60	23.10	24.04	24.50
	8H	21.21	22.10	21.67	22.54	23.01	23.03	23.93	23.49	24.37	24.83
	12H	21.29	22.10	21.77	22.57	23.04	23.31	24.11	23.79	24.59	25.06
8H	4H	20.98	21.87	21.43	22.31	22.77	22.02	22.91	22.48	23.35	23.82
	6H	21.65	22.40	22.15	22.88	23.36	23.10	23.85	23.60	24.33	24.81
	8H	21.87	22.54	22.38	23.05	23.53	23.59	24.26	24.10	24.76	25.25
	12H	22.02	22.61	22.53	23.10	23.66	23.97	24.56	24.47	25.05	25.61
12H	4H	21.06	21.86	21.54	22.34	22.81	22.05	22.85	22.53	23.32	23.79
	6H	21.78	22.45	22.29	22.96	23.44	23.16	23.83	23.66	24.33	24.82
	8H	22.07	22.66	22.58	23.15	23.71	23.71	24.30	24.21	24.79	25.35