

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: P1587717

Luminaire Tested: 22CZSP-SB-47-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587717
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-L840
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 4500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

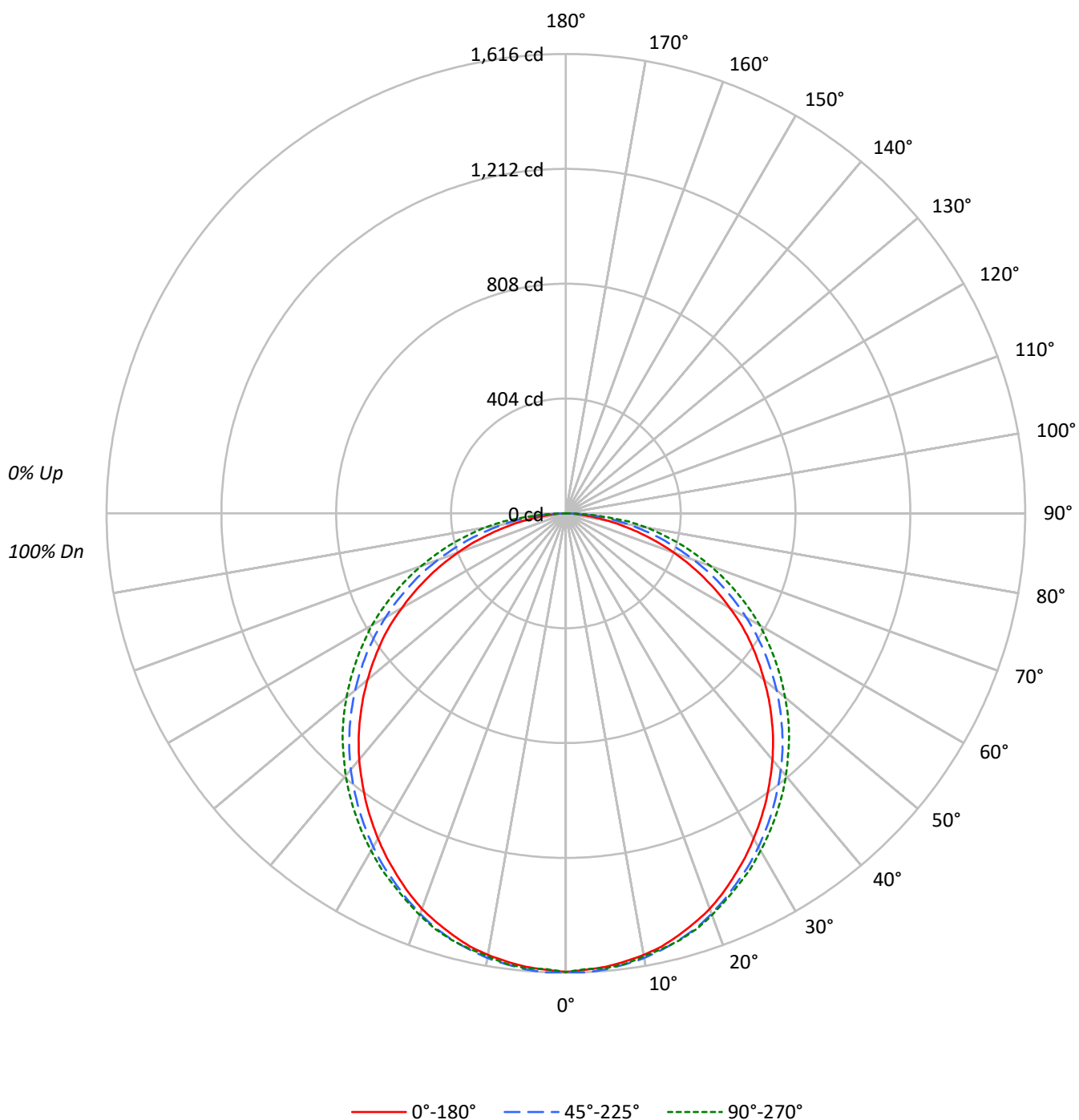
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4708.0 lumens
Efficiency: N/A
Efficacy: 142.2 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°	5051	5051	5051
5°	5033	5062	5049
10°	5016	5050	5031
15°	4978	5030	5036
20°	4934	4994	5010
25°	4854	4940	4975
30°	4777	4900	4954
35°	4700	4853	4937
40°	4623	4810	4924
45°	4536	4766	4920
50°	4436	4713	4908
55°	4336	4662	4907
60°	4175	4593	4936
65°	3980	4503	4939
70°	3713	4379	4954
75°	3303	4220	5039
80°	2714	4043	5229
85°	1789	3794	4725

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5355 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.6	3.2
10°-20°	436.8	9.3
20°-30°	658.4	14.0
30°-40°	792.8	16.8
40°-50°	828.3	17.6
50°-60°	761.0	16.2
60°-70°	599.3	12.7
70°-80°	367.4	7.8
80°-90°	111.4	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°	1247.8	26.5
0°-40°	2040.6	43.3
0°-60°	3629.9	77.1
0°-90°	4708.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4708.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1613	1613	1613	1613	1613	
5°	1601	1604	1610	1608	1606	152
15°	1536	1542	1552	1557	1554	433
25°	1405	1414	1430	1445	1440	648
35°	1230	1246	1270	1292	1291	769
45°	1024	1046	1076	1106	1111	790
55°	794	817	854	891	899	709
65°	537	565	608	649	667	531
75°	273	305	349	391	416	290
85°	50	74	106	118	132	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1613.2	1613.2	1613.2	1613.2	1613.2
2.5°	1607.3	1611.3	1616.2	1608.3	1604.3
5°	1601.3	1604.3	1610.3	1608.3	1606.3
7.5°	1590.3	1592.3	1600.3	1600.3	1598.3
10°	1577.4	1581.4	1588.3	1587.3	1582.4
12.5°	1560.4	1563.4	1571.4	1571.4	1568.4
15°	1535.5	1541.5	1551.5	1557.4	1553.5
17.5°	1509.6	1515.6	1528.5	1534.5	1532.5
20°	1480.7	1485.7	1498.7	1507.6	1503.6
22.5°	1444.8	1450.8	1465.8	1475.7	1471.7
25°	1405.0	1414.0	1429.9	1444.8	1439.9
27.5°	1365.1	1375.1	1395.0	1410.0	1408.0
30°	1321.3	1334.2	1355.2	1374.1	1370.1
32.5°	1276.4	1291.4	1313.3	1333.2	1332.2
35°	1229.6	1245.6	1269.5	1292.4	1291.4
37.5°	1179.8	1198.7	1223.6	1248.5	1249.5
40°	1131.0	1148.9	1176.8	1203.7	1204.7
42.5°	1079.1	1098.1	1128.0	1155.9	1156.9
45°	1024.3	1046.3	1076.2	1106.1	1111.0
47.5°	968.5	991.5	1022.4	1054.2	1060.2
50°	910.7	934.7	967.5	1001.4	1007.4
52.5°	852.0	876.9	910.7	944.6	953.6
55°	794.2	817.1	854.0	890.8	898.8
57.5°	733.4	754.3	794.2	833.0	843.0
60°	666.6	692.5	733.4	772.2	788.2
62.5°	601.9	629.8	671.6	710.5	728.4
65°	537.1	565.0	607.8	648.7	666.6
67.5°	471.3	500.2	546.1	584.9	604.8
70°	405.6	434.4	478.3	520.1	541.1
72.5°	339.8	370.7	413.5	456.4	477.3
75°	273.0	304.9	348.8	390.6	416.5
77.5°	210.2	241.1	285.0	327.8	349.8
80°	150.5	181.4	224.2	267.0	290.0
82.5°	95.7	124.6	166.4	202.3	223.2
85°	49.8	73.7	105.6	117.6	131.5
87.5°	14.9	28.9	40.9	45.8	56.8
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	17.14	18.80	17.51	19.12	19.43	17.89	19.55	18.25	19.86	20.18
	3H	18.90	20.41	19.28	20.74	21.10	19.98	21.49	20.36	21.82	22.18
	4H	19.53	20.95	19.93	21.30	21.67	20.87	22.29	21.26	22.64	23.01
	6H	19.94	21.26	20.35	21.62	22.01	21.63	22.95	22.04	23.32	23.71
	8H	20.05	21.31	20.47	21.70	22.10	21.95	23.21	22.37	23.60	23.99
	12H	20.10	21.31	20.53	21.69	22.12	22.16	23.37	22.59	23.75	24.18
4H	2H	17.91	19.33	18.31	19.68	20.06	18.49	19.91	18.89	20.26	20.63
	3H	19.90	21.10	20.31	21.50	21.90	20.82	22.02	21.23	22.41	22.81
	4H	20.66	21.74	21.09	22.16	22.59	21.85	22.94	22.28	23.35	23.79
	6H	21.19	22.15	21.65	22.59	23.04	22.78	23.74	23.24	24.18	24.63
	8H	21.34	22.23	21.80	22.68	23.14	23.17	24.06	23.63	24.50	24.97
	12H	21.43	22.23	21.91	22.71	23.17	23.44	24.25	23.92	24.72	25.19
8H	4H	21.11	22.00	21.57	22.44	22.91	22.15	23.05	22.61	23.49	23.95
	6H	21.79	22.53	22.28	23.02	23.49	23.24	23.98	23.73	24.47	24.94
	8H	22.01	22.68	22.52	23.18	23.67	23.73	24.39	24.23	24.90	25.38
	12H	22.16	22.75	22.66	23.24	23.80	24.10	24.69	24.61	25.18	25.74
12H	4H	21.19	22.00	21.67	22.47	22.94	22.18	22.99	22.66	23.46	23.93
	6H	21.92	22.59	22.42	23.09	23.57	23.29	23.96	23.80	24.46	24.95
	8H	22.21	22.80	22.71	23.29	23.85	23.84	24.44	24.35	24.93	25.48