

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: P1587727

Luminaire Tested: 22CZSP-SB-47-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587727
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-L940
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 4500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

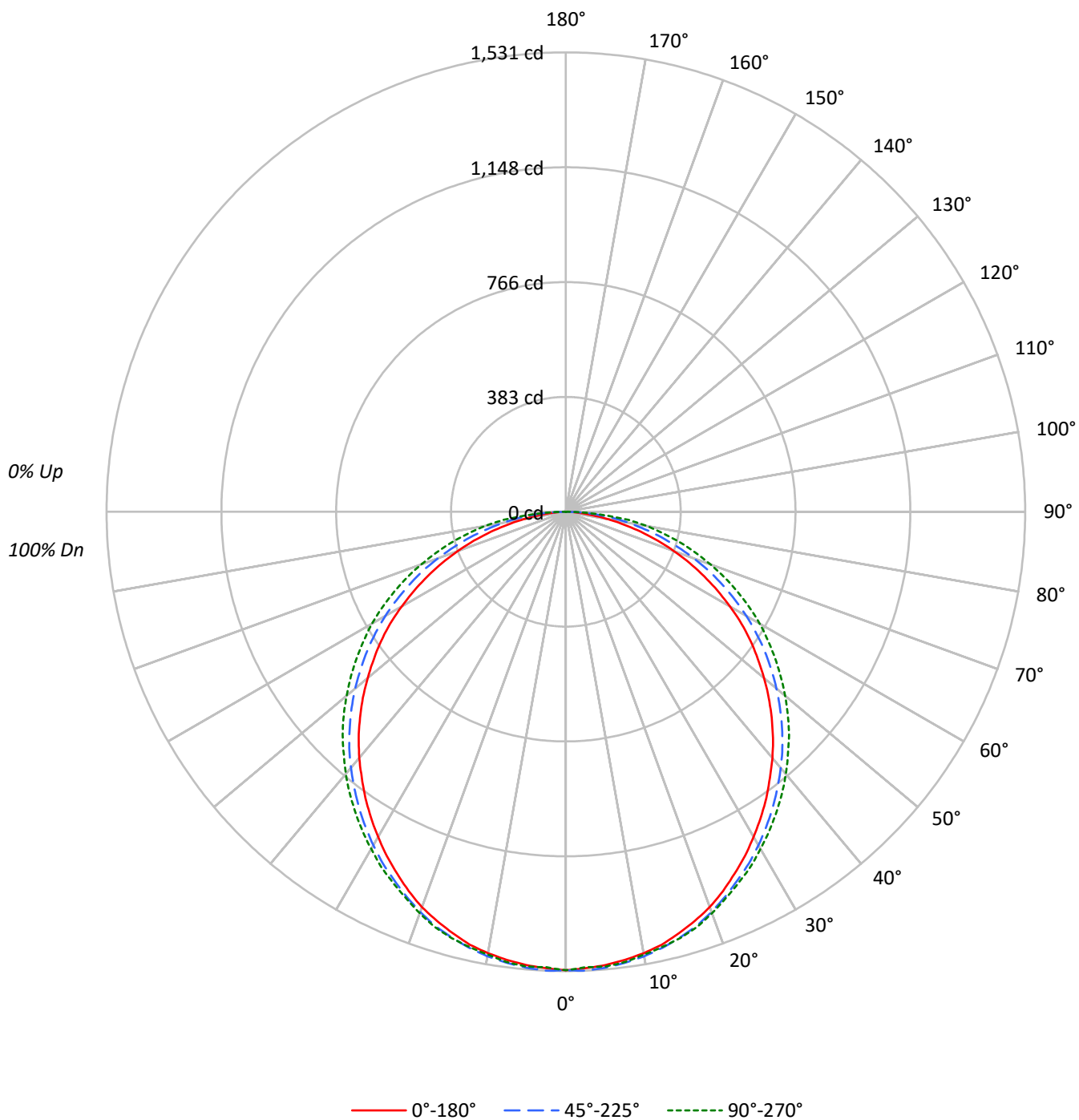
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4459.0 lumens
Efficiency: N/A
Efficacy: 134.7 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°	4784	4784	4784
5°	4767	4794	4782
10°	4750	4783	4765
15°	4715	4763	4770
20°	4673	4730	4746
25°	4598	4679	4712
30°	4525	4641	4692
35°	4452	4596	4675
40°	4378	4556	4664
45°	4296	4513	4660
50°	4202	4464	4648
55°	4106	4415	4648
60°	3954	4350	4675
65°	3769	4266	4678
70°	3517	4147	4692
75°	3129	3996	4773
80°	2570	3828	4952
85°	1696	3593	4477

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5071 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.5	3.2
10°-20°	413.7	9.3
20°-30°	623.5	14.0
30°-40°	750.9	16.8
40°-50°	784.5	17.6
50°-60°	720.8	16.2
60°-70°	567.6	12.7
70°-80°	348.0	7.8
80°-90°	105.5	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°	1181.8	26.5
0°-40°	1932.7	43.3
0°-60°	3438.0	77.1
0°-90°	4459.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4459.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1528	1528	1528	1528	1528	
5°	1517	1519	1525	1523	1521	144
15°	1454	1460	1469	1475	1471	410
25°	1331	1339	1354	1368	1364	613
35°	1165	1180	1202	1224	1223	728
45°	970	991	1019	1048	1052	748
55°	752	774	809	844	851	671
65°	509	535	576	614	631	503
75°	259	289	330	370	394	275
85°	47	70	100	111	125	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1527.9	1527.9	1527.9	1527.9	1527.9
2.5°	1522.3	1526.0	1530.8	1523.2	1519.4
5°	1516.6	1519.4	1525.1	1523.2	1521.3
7.5°	1506.2	1508.1	1515.7	1515.7	1513.8
10°	1493.9	1497.7	1504.3	1503.4	1498.7
12.5°	1477.9	1480.7	1488.3	1488.3	1485.5
15°	1454.3	1460.0	1469.4	1475.1	1471.3
17.5°	1429.8	1435.4	1447.7	1453.4	1451.5
20°	1402.4	1407.1	1419.4	1427.9	1424.1
22.5°	1368.4	1374.1	1388.2	1397.7	1393.9
25°	1330.7	1339.2	1354.3	1368.4	1363.7
27.5°	1292.9	1302.4	1321.2	1335.4	1333.5
30°	1251.4	1263.7	1283.5	1301.4	1297.6
32.5°	1208.9	1223.1	1243.9	1262.7	1261.8
35°	1164.6	1179.7	1202.3	1224.0	1223.1
37.5°	1117.4	1135.3	1158.9	1182.5	1183.5
40°	1071.1	1088.1	1114.6	1140.0	1141.0
42.5°	1022.1	1040.0	1068.3	1094.7	1095.7
45°	970.2	990.9	1019.2	1047.6	1052.3
47.5°	917.3	939.0	968.3	998.5	1004.1
50°	862.6	885.2	916.4	948.5	954.1
52.5°	806.9	830.5	862.6	894.7	903.2
55°	752.2	773.9	808.8	843.7	851.3
57.5°	694.6	714.4	752.2	789.0	798.4
60°	631.4	655.9	694.6	731.4	746.5
62.5°	570.0	596.4	636.1	672.9	689.9
65°	508.7	535.1	575.7	614.4	631.4
67.5°	446.4	473.8	517.2	554.0	572.9
70°	384.1	411.5	453.0	492.6	512.5
72.5°	321.8	351.1	391.7	432.2	452.1
75°	258.6	288.8	330.3	369.9	394.5
77.5°	199.1	228.4	269.9	310.5	331.3
80°	142.5	171.8	212.3	252.9	274.6
82.5°	90.6	118.0	157.6	191.6	211.4
85°	47.2	69.8	100.0	111.4	124.6
87.5°	14.2	27.4	38.7	43.4	53.8
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	16.95	18.61	17.32	18.93	19.24	17.70	19.36	18.06	19.68	19.99
	3H	18.71	20.22	19.09	20.55	20.91	19.79	21.30	20.17	21.63	21.99
	4H	19.34	20.76	19.74	21.11	21.48	20.68	22.10	21.08	22.45	22.82
	6H	19.75	21.07	20.16	21.44	21.83	21.45	22.77	21.86	23.13	23.52
	8H	19.86	21.12	20.28	21.51	21.91	21.76	23.02	22.18	23.41	23.81
	12H	19.91	21.12	20.34	21.50	21.93	21.97	23.18	22.40	23.56	23.99
4H	2H	17.72	19.14	18.12	19.49	19.87	18.30	19.72	18.70	20.07	20.45
	3H	19.72	20.91	20.12	21.31	21.71	20.63	21.83	21.04	22.23	22.62
	4H	20.47	21.56	20.90	21.97	22.40	21.66	22.75	22.10	23.16	23.60
	6H	21.01	21.96	21.46	22.40	22.85	22.60	23.55	23.05	23.99	24.44
	8H	21.15	22.05	21.61	22.49	22.95	22.98	23.87	23.44	24.31	24.78
	12H	21.24	22.04	21.72	22.52	22.99	23.26	24.06	23.73	24.53	25.00
8H	4H	20.92	21.81	21.38	22.26	22.72	21.96	22.86	22.42	23.30	23.76
	6H	21.60	22.34	22.09	22.83	23.30	23.05	23.79	23.54	24.28	24.75
	8H	21.82	22.49	22.33	22.99	23.48	23.54	24.21	24.04	24.71	25.19
	12H	21.97	22.56	22.47	23.05	23.61	23.91	24.50	24.42	24.99	25.55
12H	4H	21.01	21.81	21.48	22.28	22.75	21.99	22.80	22.47	23.27	23.74
	6H	21.73	22.40	22.23	22.90	23.39	23.10	23.77	23.61	24.28	24.76
	8H	22.02	22.61	22.52	23.10	23.66	23.66	24.25	24.16	24.74	25.30