

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: P1587726

Luminaire Tested: 22CZSP-SB-47-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587726
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-L940-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 4500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

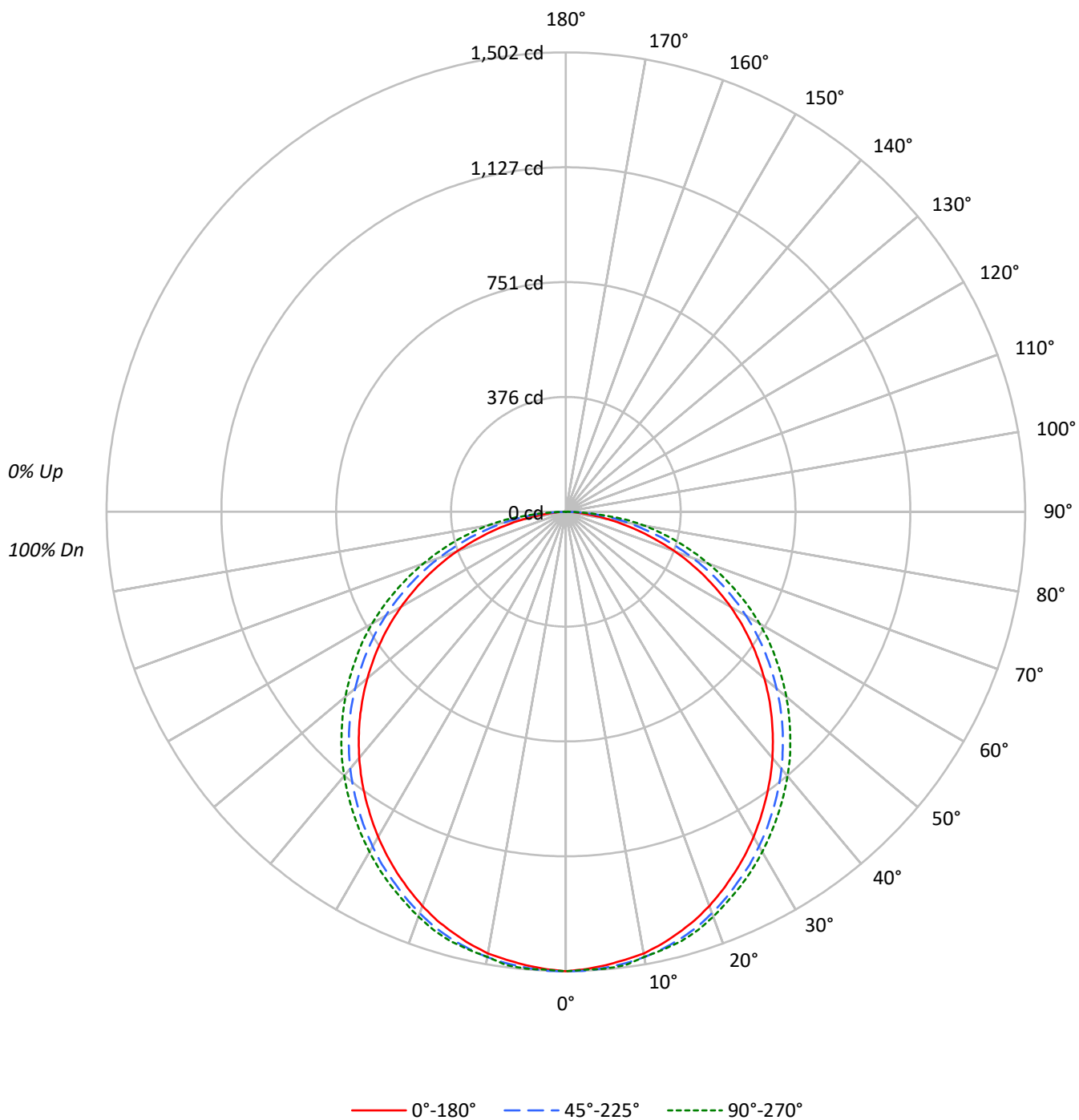
Lumens per Lamp: N/A
Luminaire Lumens: 4370.0 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	4704	4704	4704
5°	4678	4704	4713
10°	4663	4702	4699
15°	4620	4687	4715
20°	4571	4655	4696
25°	4505	4609	4667
30°	4439	4568	4643
35°	4366	4524	4621
40°	4296	4485	4608
45°	4217	4438	4596
50°	4126	4383	4584
55°	4024	4326	4578
60°	3897	4262	4581
65°	3719	4172	4555
70°	3477	4045	4545
75°	3083	3890	4561
80°	2508	3695	4696
85°	1620	3410	4053

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4760 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.2	3.3
10°-20°	407.1	9.3
20°-30°	613.8	14.0
30°-40°	738.6	16.9
40°-50°	770.4	17.6
50°-60°	706.1	16.2
60°-70°	554.5	12.7
70°-80°	337.5	7.7
80°-90°	99.8	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°	1163.1	26.6
0°-40°	1901.6	43.5
0°-60°	3378.2	77.3
0°-90°	4370.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4370.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1502	1502	1502	1502	1502	
5°	1488	1498	1497	1495	1499	141
15°	1425	1439	1446	1448	1454	402
25°	1304	1322	1334	1342	1351	601
35°	1142	1160	1184	1200	1209	715
45°	952	972	1002	1026	1038	734
55°	737	756	792	824	839	659
65°	502	521	563	601	615	497
75°	255	278	322	360	377	270
85°	45	64	95	106	113	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1502.3	1502.3	1502.3	1502.3	1502.3
2.5°	1496.6	1504.1	1502.3	1495.7	1498.5
5°	1488.2	1497.6	1496.6	1494.7	1499.4
7.5°	1477.8	1488.2	1489.1	1489.1	1494.7
10°	1466.5	1476.9	1478.8	1475.9	1477.8
12.5°	1447.7	1460.0	1463.7	1463.7	1466.5
15°	1425.2	1439.3	1445.8	1447.7	1454.3
17.5°	1400.7	1415.8	1424.2	1428.9	1434.6
20°	1371.6	1387.6	1397.0	1402.6	1409.2
22.5°	1338.7	1356.5	1366.9	1372.5	1380.0
25°	1303.9	1321.8	1334.0	1342.4	1350.9
27.5°	1267.2	1284.2	1301.1	1311.4	1318.9
30°	1227.8	1245.6	1263.5	1276.6	1284.2
32.5°	1185.4	1204.2	1224.9	1239.0	1247.5
35°	1142.2	1160.1	1183.6	1200.5	1208.9
37.5°	1098.0	1116.8	1141.3	1159.1	1169.5
40°	1051.0	1070.8	1097.1	1116.8	1127.2
42.5°	1002.1	1020.9	1050.1	1072.6	1084.9
45°	952.3	972.0	1002.1	1025.6	1037.9
47.5°	900.6	919.4	952.3	979.6	989.9
50°	847.0	864.9	899.7	928.8	941.0
52.5°	792.5	811.3	846.1	877.1	890.3
55°	737.0	755.8	792.5	824.5	838.6
57.5°	680.6	699.4	737.0	769.9	786.9
60°	622.3	641.1	680.6	714.5	731.4
62.5°	562.2	581.9	622.3	657.1	675.0
65°	502.0	520.8	563.1	600.7	614.8
67.5°	441.8	460.6	502.0	539.6	556.5
70°	379.8	401.4	441.8	481.3	496.4
72.5°	314.9	339.4	379.8	421.2	436.2
75°	254.8	278.3	321.5	360.1	377.0
77.5°	195.5	220.9	261.3	300.8	317.7
80°	139.1	163.6	204.9	242.5	260.4
82.5°	88.4	110.0	151.4	185.2	198.4
85°	45.1	63.9	94.9	106.2	112.8
87.5°	13.2	22.6	33.8	42.3	47.0
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	16.88	18.54	17.24	18.85	19.17	17.61	19.27	17.98	19.59	19.90
	3H	18.65	20.15	19.02	20.48	20.84	19.69	21.20	20.07	21.52	21.88
	4H	19.27	20.69	19.66	21.03	21.41	20.56	21.98	20.96	22.33	22.70
	6H	19.68	20.99	20.09	21.36	21.75	21.30	22.62	21.71	22.98	23.38
	8H	19.78	21.04	20.20	21.43	21.83	21.60	22.86	22.02	23.25	23.65
	12H	19.83	21.04	20.26	21.42	21.84	21.79	23.00	22.22	23.38	23.81
4H	2H	17.65	19.07	18.05	19.41	19.79	18.22	19.64	18.62	19.99	20.36
	3H	19.64	20.83	20.05	21.23	21.63	20.53	21.73	20.94	22.12	22.52
	4H	20.38	21.47	20.81	21.88	22.31	21.55	22.63	21.98	23.05	23.48
	6H	20.91	21.86	21.36	22.30	22.75	22.46	23.41	22.91	23.85	24.30
	8H	21.05	21.94	21.51	22.38	22.85	22.82	23.71	23.28	24.15	24.62
	12H	21.13	21.93	21.61	22.41	22.88	23.08	23.88	23.56	24.35	24.82
8H	4H	20.83	21.72	21.29	22.16	22.62	21.85	22.74	22.31	23.18	23.64
	6H	21.49	22.23	21.98	22.72	23.19	22.91	23.65	23.40	24.13	24.61
	8H	21.70	22.37	22.21	22.87	23.35	23.38	24.04	23.88	24.55	25.03
	12H	21.84	22.43	22.34	22.92	23.47	23.73	24.32	24.23	24.81	25.37
12H	4H	20.91	21.71	21.39	22.18	22.65	21.87	22.68	22.35	23.15	23.62
	6H	21.61	22.28	22.12	22.79	23.27	22.96	23.62	23.46	24.13	24.61
	8H	21.89	22.48	22.40	22.97	23.53	23.49	24.08	24.00	24.57	25.13