

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: P1586451

Luminaire Tested: 22CZSP-47-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-772-10)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-47-L950
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 4500 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

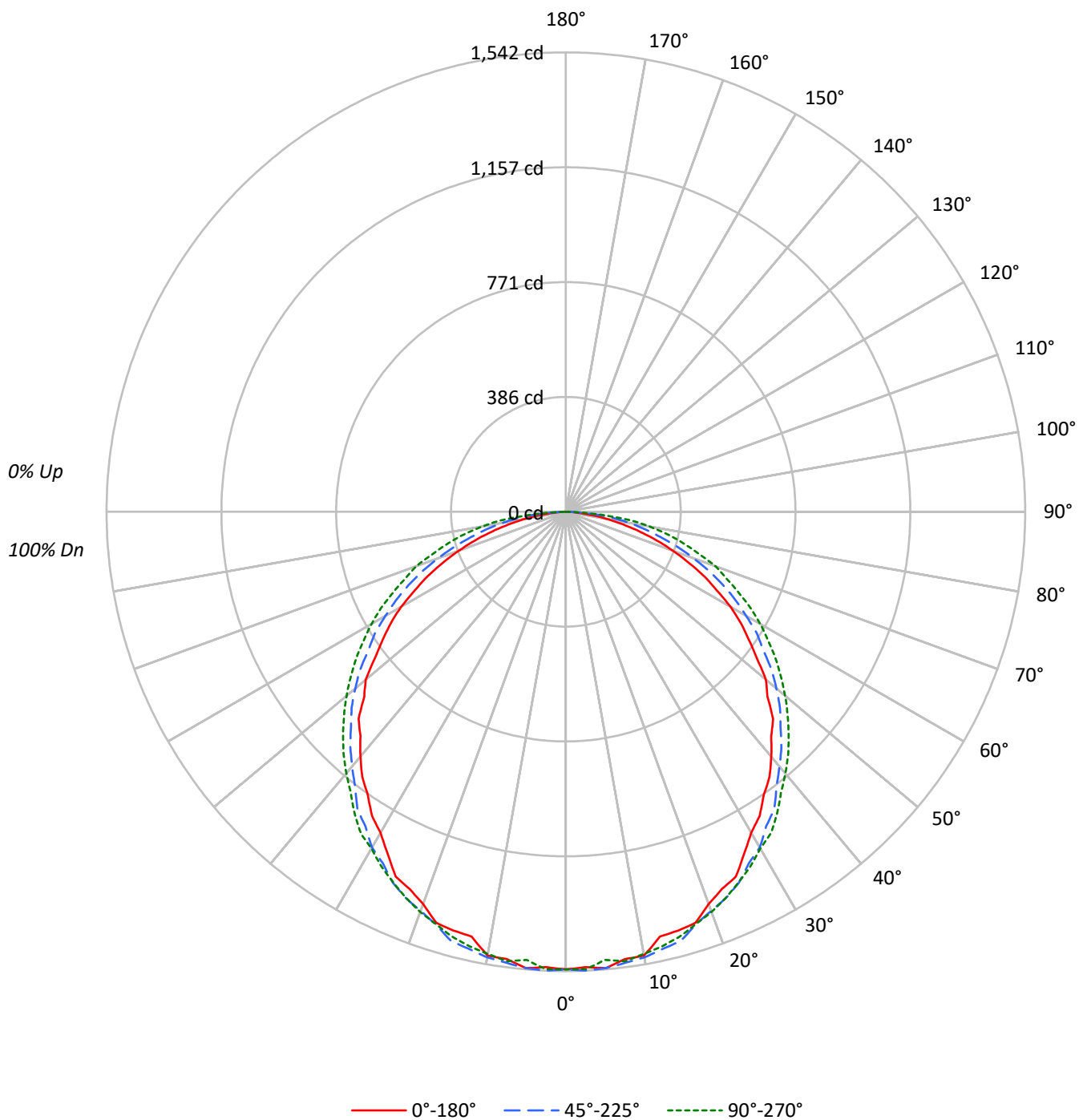
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4484.0 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
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	31	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°	4809	4809	4809
5°	4833	4833	4746
10°	4810	4829	4792
15°	4718	4833	4786
20°	4668	4751	4764
25°	4668	4748	4741
30°	4498	4706	4720
35°	4430	4661	4727
40°	4386	4562	4687
45°	4358	4514	4683
50°	4272	4495	4682
55°	4098	4411	4693
60°	4001	4378	4719
65°	3798	4315	4733
70°	3502	4176	4894
75°	3112	3991	4940
80°	2586	3915	5121
85°	1581	3503	4329

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5299 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.6	3.2
10°-20°	416.1	9.3
20°-30°	627.7	14.0
30°-40°	753.9	16.8
40°-50°	787.0	17.6
50°-60°	724.6	16.2
60°-70°	572.2	12.8
70°-80°	352.4	7.9
80°-90°	104.5	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°	1189.5	26.5
0°-40°	1943.4	43.3
0°-60°	3454.9	77.1
0°-90°	4484.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4484.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1536	1536	1536	1536	1536	
5°	1538	1522	1538	1540	1510	145
15°	1455	1476	1491	1484	1476	411
25°	1351	1361	1374	1368	1372	616
35°	1159	1180	1219	1225	1236	728
45°	984	992	1019	1041	1058	752
55°	751	771	808	844	860	674
65°	513	531	582	624	639	505
75°	257	282	330	382	408	273
85°	44	63	98	116	120	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1535.8	1535.8	1535.8	1535.8	1535.8
2.5°	1530.0	1546.3	1541.5	1544.4	1536.7
5°	1537.7	1522.4	1537.7	1539.6	1509.9
7.5°	1514.7	1516.6	1527.2	1530.0	1521.4
10°	1512.8	1518.6	1518.6	1509.0	1507.1
12.5°	1460.2	1488.9	1503.3	1509.9	1493.7
15°	1455.4	1475.5	1490.8	1484.1	1476.5
17.5°	1446.8	1441.1	1451.6	1459.3	1450.7
20°	1400.9	1410.5	1425.8	1427.7	1429.6
22.5°	1370.3	1373.2	1403.8	1406.7	1402.8
25°	1351.2	1360.8	1374.2	1368.4	1372.2
27.5°	1294.8	1317.7	1330.2	1341.6	1341.6
30°	1244.1	1270.9	1301.5	1305.3	1305.3
32.5°	1210.6	1228.8	1251.8	1259.4	1280.4
35°	1159.0	1180.0	1219.2	1225.0	1236.5
37.5°	1122.7	1143.7	1161.9	1181.9	1186.7
40°	1072.9	1094.9	1116.0	1138.9	1146.6
42.5°	1020.3	1043.3	1071.0	1094.9	1104.5
45°	984.0	991.7	1019.4	1041.4	1057.6
47.5°	918.0	940.0	975.4	1003.1	1009.8
50°	876.9	885.5	922.8	960.1	961.1
52.5°	808.0	833.9	870.2	905.6	910.4
55°	750.7	770.8	808.0	844.4	859.7
57.5°	697.1	712.4	760.2	796.6	805.2
60°	638.8	655.0	699.0	741.1	753.5
62.5°	570.9	593.8	641.7	681.8	699.0
65°	512.6	530.7	582.4	624.4	638.8
67.5°	446.6	471.4	520.2	567.1	582.4
70°	382.5	407.4	456.1	504.9	534.6
72.5°	319.4	345.2	394.0	450.4	466.7
75°	257.2	282.1	329.9	382.5	408.3
77.5°	196.0	222.8	271.6	324.2	349.0
80°	143.4	164.5	217.1	263.0	284.0
82.5°	88.9	110.9	159.7	202.7	220.9
85°	44.0	63.1	97.5	115.7	120.5
87.5°	13.4	20.1	30.6	40.2	45.9
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	16.92	18.58	17.29	18.90	19.21	17.75	19.41	18.11	19.72	20.04
	3H	18.68	20.18	19.05	20.51	20.87	19.89	21.40	20.27	21.73	22.09
	4H	19.29	20.71	19.69	21.06	21.43	20.81	22.23	21.20	22.58	22.95
	6H	19.69	21.01	20.10	21.38	21.77	21.61	22.93	22.02	23.29	23.68
	8H	19.80	21.06	20.22	21.45	21.84	21.93	23.19	22.35	23.58	23.98
	12H	19.84	21.05	20.27	21.43	21.86	22.14	23.35	22.56	23.73	24.16
4H	2H	17.71	19.14	18.11	19.48	19.86	18.35	19.77	18.75	20.12	20.50
	3H	19.69	20.89	20.10	21.28	21.68	20.73	21.93	21.14	22.33	22.73
	4H	20.42	21.51	20.85	21.92	22.35	21.80	22.88	22.23	23.30	23.73
	6H	20.94	21.89	21.39	22.33	22.79	22.77	23.72	23.22	24.16	24.61
	8H	21.08	21.97	21.54	22.41	22.88	23.16	24.05	23.62	24.50	24.96
	12H	21.16	21.96	21.63	22.43	22.90	23.43	24.23	23.91	24.71	25.18
8H	4H	20.88	21.78	21.34	22.22	22.68	22.09	22.98	22.55	23.42	23.89
	6H	21.54	22.28	22.03	22.77	23.25	23.21	23.96	23.70	24.44	24.92
	8H	21.75	22.41	22.25	22.92	23.40	23.72	24.39	24.23	24.89	25.38
	12H	21.87	22.47	22.38	22.96	23.51	24.09	24.68	24.59	25.17	25.73
12H	4H	20.98	21.78	21.46	22.25	22.72	22.11	22.92	22.59	23.39	23.86
	6H	21.68	22.35	22.19	22.85	23.34	23.26	23.93	23.77	24.44	24.92
	8H	21.95	22.54	22.46	23.03	23.59	23.84	24.43	24.34	24.92	25.48