

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: P1586368

Luminaire Tested: 22CZSP-35-L945-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-35-L945-S
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

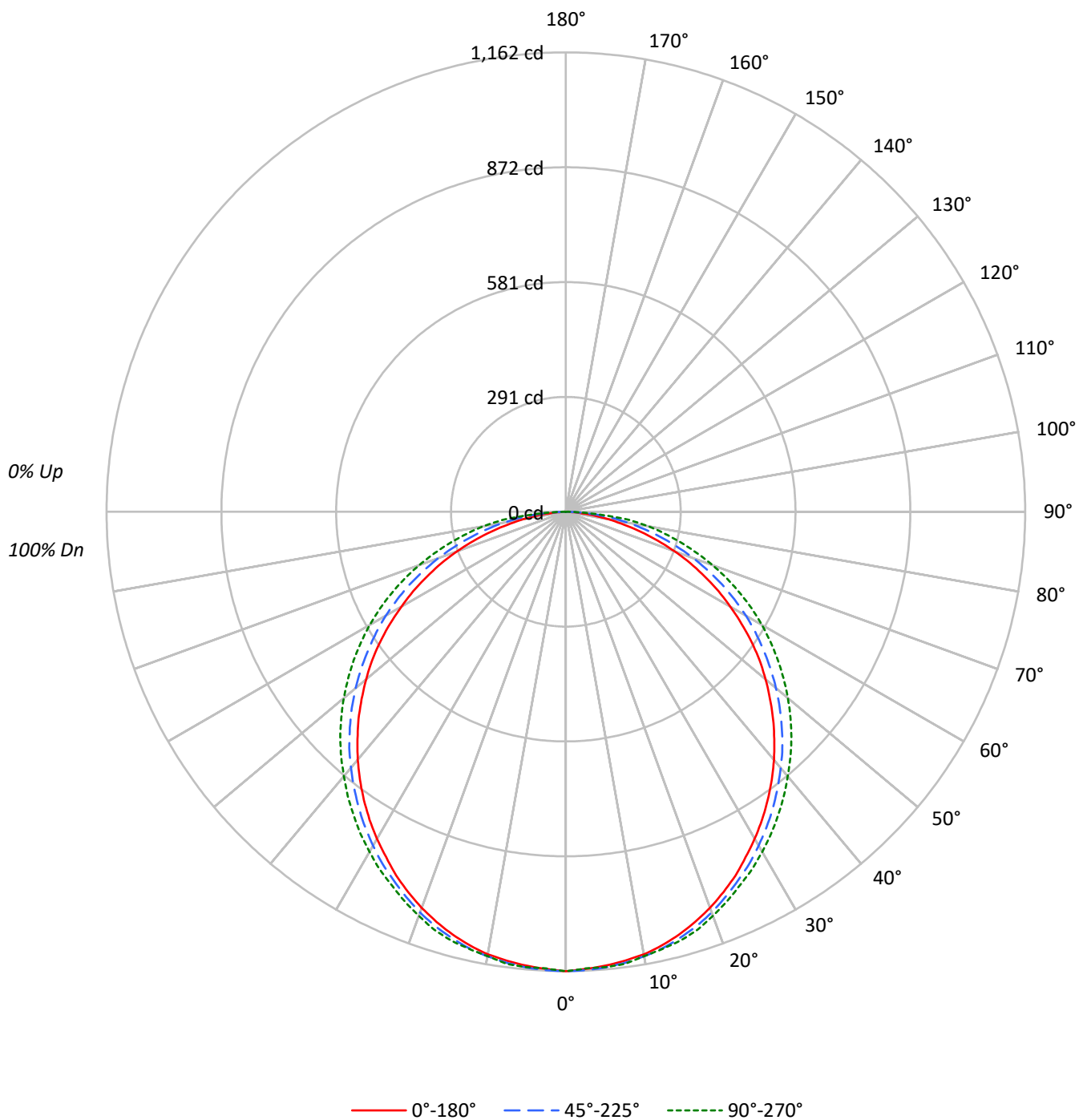
Lumens per Lamp: N/A
Luminaire Lumens: 3393.0 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.7
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	69
3	89	79	70	64	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°	3639	3639	3639
5°	3623	3637	3634
10°	3615	3631	3629
15°	3589	3618	3640
20°	3553	3595	3625
25°	3509	3558	3601
30°	3454	3526	3591
35°	3404	3492	3580
40°	3348	3457	3570
45°	3284	3422	3574
50°	3213	3380	3573
55°	3130	3333	3577
60°	3012	3297	3585
65°	2874	3233	3596
70°	2679	3142	3613
75°	2387	3017	3648
80°	1973	2873	3827
85°	1283	2594	3345

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3946 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	3.2
10°-20°	314.7	9.3
20°-30°	474.7	14.0
30°-40°	571.7	16.8
40°-50°	597.1	17.6
50°-60°	548.3	16.2
60°-70°	431.9	12.7
70°-80°	264.9	7.8
80°-90°	79.7	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°	899.3	26.5
0°-40°	1471.0	43.4
0°-60°	2616.4	77.1
0°-90°	3393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3393.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1162	1162	1162	1162	1162	
5°	1152	1154	1157	1161	1156	110
15°	1107	1109	1116	1123	1123	312
25°	1016	1018	1030	1042	1042	467
35°	890	895	914	932	937	557
45°	742	750	773	800	807	572
55°	573	584	610	645	655	512
65°	388	401	436	473	485	384
75°	197	213	249	289	302	209
85°	36	49	72	92	93	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1162.2	1162.2	1162.2	1162.2	1162.2
2.5°	1157.7	1160.0	1160.7	1161.4	1156.2
5°	1152.5	1154.0	1157.0	1160.7	1156.2
7.5°	1145.1	1146.6	1150.3	1155.5	1153.3
10°	1136.9	1137.6	1142.1	1145.8	1141.3
12.5°	1123.5	1125.7	1130.9	1133.9	1132.4
15°	1107.1	1109.3	1116.0	1122.7	1122.7
17.5°	1087.7	1090.7	1098.9	1107.8	1108.6
20°	1066.2	1068.4	1078.8	1087.7	1087.7
22.5°	1041.6	1044.6	1055.0	1064.7	1066.2
25°	1015.5	1017.8	1029.7	1042.3	1042.3
27.5°	985.0	989.5	1004.4	1017.0	1020.0
30°	955.2	958.9	975.3	991.0	993.2
32.5°	923.9	928.4	945.5	962.7	966.4
35°	890.4	894.9	913.5	932.1	936.6
37.5°	855.5	860.7	880.0	901.6	906.1
40°	819.0	824.9	845.8	868.9	873.3
42.5°	780.3	788.4	810.8	834.6	841.3
45°	741.5	749.7	772.8	799.6	807.1
47.5°	700.6	710.3	734.1	762.4	770.6
50°	659.6	669.3	693.9	724.4	733.4
52.5°	618.0	627.6	652.9	685.0	694.6
55°	573.3	583.7	610.5	644.8	655.2
57.5°	527.1	540.5	568.8	603.8	614.2
60°	481.0	494.4	526.4	560.6	572.5
62.5°	435.5	448.2	481.0	517.4	530.1
65°	387.9	401.3	436.3	472.8	485.4
67.5°	341.0	354.4	389.4	427.4	440.8
70°	292.6	307.5	343.2	381.2	394.6
72.5°	244.2	259.8	296.3	335.0	347.7
75°	197.3	212.9	249.4	288.9	301.5
77.5°	151.1	168.3	204.0	244.2	256.1
80°	109.4	125.8	159.3	198.8	212.2
82.5°	70.0	84.1	117.6	154.9	164.5
85°	35.7	49.1	72.2	91.6	93.1
87.5°	11.2	15.6	23.8	35.7	36.5
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	15.97	17.63	16.33	17.94	18.26	16.80	18.46	17.16	18.77	19.09
	3H	17.72	19.23	18.10	19.56	19.91	18.91	20.42	19.29	20.75	21.11
	4H	18.34	19.76	18.74	20.11	20.48	19.80	21.22	20.20	21.57	21.95
	6H	18.75	20.07	19.16	20.44	20.83	20.58	21.90	20.99	22.27	22.66
	8H	18.86	20.12	19.28	20.51	20.91	20.90	22.17	21.33	22.55	22.95
	12H	18.91	20.12	19.34	20.50	20.93	21.11	22.32	21.54	22.71	23.13
4H	2H	16.74	18.16	17.14	18.51	18.88	17.38	18.81	17.78	19.15	19.53
	3H	18.71	19.91	19.12	20.31	20.71	19.74	20.94	20.15	21.33	21.73
	4H	19.45	20.54	19.88	20.95	21.39	20.79	21.88	21.22	22.29	22.72
	6H	19.98	20.93	20.43	21.37	21.83	21.74	22.70	22.20	23.14	23.59
	8H	20.13	21.02	20.59	21.46	21.92	22.14	23.03	22.60	23.47	23.94
	12H	20.21	21.01	20.69	21.49	21.96	22.42	23.22	22.90	23.70	24.16
8H	4H	19.91	20.80	20.37	21.24	21.71	21.08	21.97	21.54	22.41	22.88
	6H	20.57	21.32	21.06	21.80	22.28	22.19	22.94	22.68	23.42	23.90
	8H	20.78	21.45	21.29	21.96	22.44	22.70	23.37	23.21	23.88	24.36
	12H	20.92	21.51	21.43	22.00	22.56	23.09	23.68	23.60	24.17	24.73
12H	4H	20.00	20.80	20.48	21.28	21.75	21.10	21.91	21.58	22.38	22.85
	6H	20.70	21.37	21.21	21.88	22.36	22.24	22.91	22.75	23.41	23.90
	8H	20.98	21.57	21.49	22.06	22.62	22.82	23.41	23.32	23.90	24.46