

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: P1586611

Luminaire Tested: 22CZSP-A-35-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586611
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-A-35-L950
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 3500 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

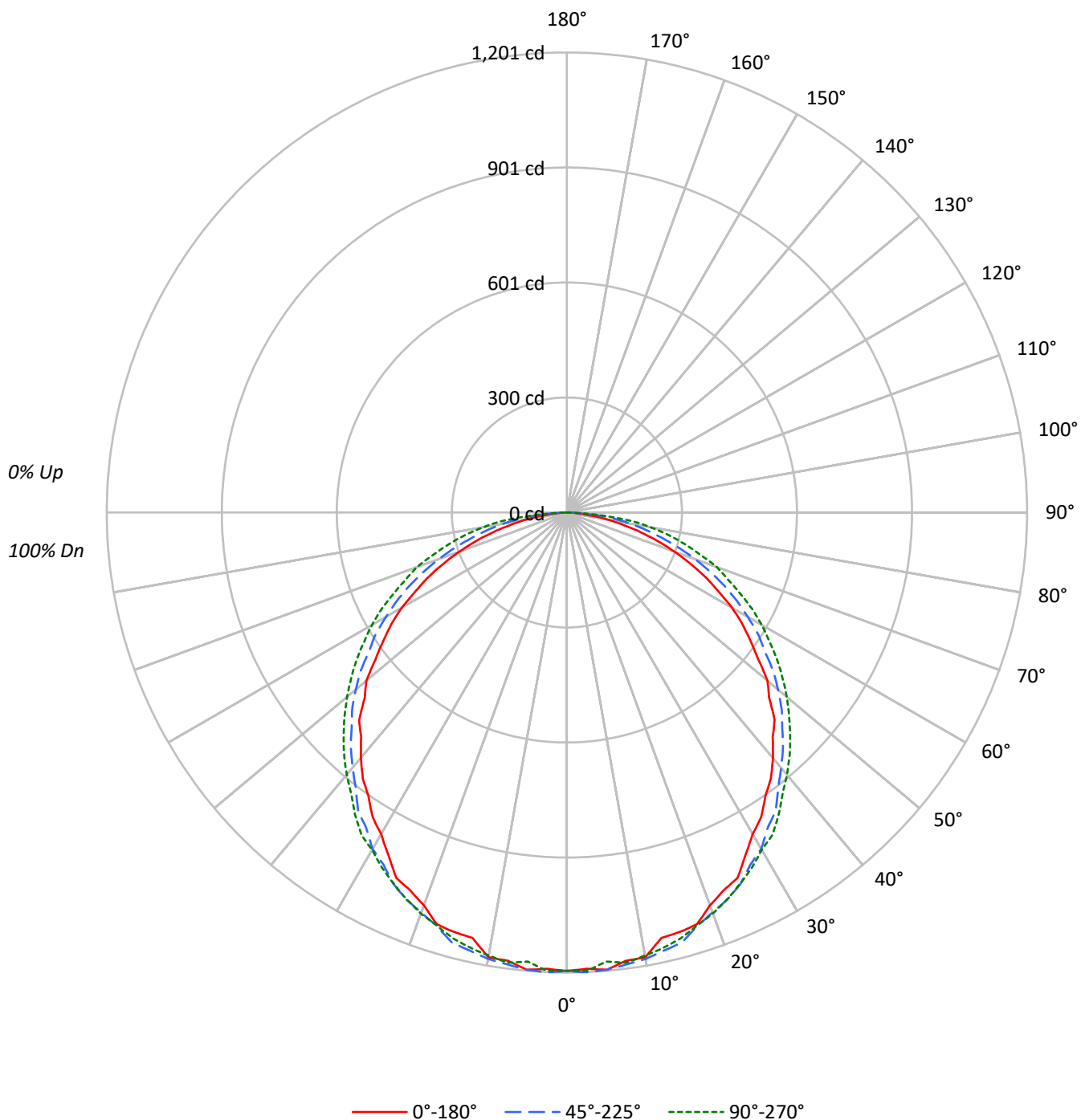
Lumens per Lamp: N/A
Luminaire Lumens: 3494.0 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	3747	3747	3747
5°	3766	3766	3698
10°	3748	3762	3734
15°	3677	3766	3730
20°	3638	3702	3712
25°	3638	3700	3694
30°	3505	3667	3678
35°	3452	3632	3683
40°	3417	3555	3652
45°	3395	3517	3649
50°	3329	3503	3648
55°	3193	3437	3657
60°	3118	3411	3677
65°	2959	3362	3688
70°	2729	3254	3813
75°	2425	3111	3850
80°	2016	3049	3991
85°	1232	2731	3374

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4129 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.5	3.2
10°-20°	324.3	9.3
20°-30°	489.1	14.0
30°-40°	587.5	16.8
40°-50°	613.2	17.6
50°-60°	564.6	16.2
60°-70°	445.9	12.8
70°-80°	274.6	7.9
80°-90°	81.4	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°	926.9	26.5
0°-40°	1514.3	43.3
0°-60°	2692.2	77.1
0°-90°	3494.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3494.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1197	1197	1197	1197	1197	
5°	1198	1186	1198	1200	1177	113
15°	1134	1150	1162	1156	1150	320
25°	1053	1060	1071	1066	1069	480
35°	903	920	950	954	964	567
45°	767	773	794	812	824	586
55°	585	601	630	658	670	525
65°	399	414	454	487	498	393
75°	200	220	257	298	318	213
85°	34	49	76	90	94	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1196.7	1196.7	1196.7	1196.7	1196.7
2.5°	1192.2	1204.9	1201.2	1203.4	1197.4
5°	1198.2	1186.3	1198.2	1199.7	1176.6
7.5°	1180.3	1181.8	1190.0	1192.2	1185.5
10°	1178.8	1183.3	1183.3	1175.8	1174.3
12.5°	1137.8	1160.2	1171.4	1176.6	1163.9
15°	1134.1	1149.8	1161.7	1156.5	1150.5
17.5°	1127.4	1122.9	1131.1	1137.1	1130.4
20°	1091.6	1099.1	1111.0	1112.5	1114.0
22.5°	1067.8	1070.0	1093.9	1096.1	1093.1
25°	1052.9	1060.3	1070.8	1066.3	1069.3
27.5°	1008.9	1026.8	1036.5	1045.4	1045.4
30°	969.4	990.3	1014.1	1017.1	1017.1
32.5°	943.3	957.5	975.4	981.3	997.7
35°	903.1	919.5	950.1	954.5	963.5
37.5°	874.8	891.2	905.3	921.0	924.7
40°	836.0	853.2	869.6	887.5	893.4
42.5°	795.1	812.9	834.6	853.2	860.6
45°	766.7	772.7	794.3	811.5	824.1
47.5°	715.3	732.5	760.0	781.7	786.9
50°	683.3	690.0	719.1	748.1	748.9
52.5°	629.6	649.8	678.1	705.6	709.4
55°	584.9	600.6	629.6	658.0	669.9
57.5°	543.2	555.1	592.4	620.7	627.4
60°	497.8	510.4	544.7	577.5	587.2
62.5°	444.8	462.7	500.0	531.3	544.7
65°	399.4	413.6	453.8	486.6	497.8
67.5°	348.0	367.4	405.4	441.9	453.8
70°	298.1	317.4	355.4	393.4	416.5
72.5°	248.9	269.0	307.0	351.0	363.6
75°	200.4	219.8	257.1	298.1	318.2
77.5°	152.8	173.6	211.6	252.6	272.0
80°	111.8	128.2	169.1	204.9	221.3
82.5°	69.3	86.4	124.4	158.0	172.1
85°	34.3	49.2	76.0	90.2	93.9
87.5°	10.4	15.6	23.8	31.3	35.8
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	16.06	17.72	16.42	18.03	18.35	16.88	18.54	17.24	18.86	19.17
	3H	17.81	19.32	18.19	19.64	20.00	19.03	20.53	19.40	20.86	21.22
	4H	18.42	19.85	18.82	20.19	20.57	19.94	21.36	20.34	21.71	22.08
	6H	18.83	20.15	19.24	20.51	20.90	20.74	22.06	21.15	22.43	22.82
	8H	18.93	20.19	19.35	20.58	20.98	21.06	22.33	21.49	22.72	23.11
	12H	18.97	20.19	19.40	20.57	21.00	21.27	22.48	21.70	22.86	23.29
4H	2H	16.85	18.27	17.24	18.62	18.99	17.48	18.91	17.88	19.25	19.63
	3H	18.82	20.02	19.23	20.42	20.82	19.86	21.06	20.27	21.46	21.86
	4H	19.55	20.64	19.98	21.05	21.49	20.93	22.02	21.36	22.43	22.87
	6H	20.07	21.03	20.53	21.46	21.92	21.90	22.85	22.35	23.29	23.74
	8H	20.21	21.11	20.67	21.55	22.01	22.30	23.19	22.75	23.63	24.09
	12H	20.29	21.09	20.77	21.57	22.04	22.56	23.37	23.04	23.84	24.31
8H	4H	20.02	20.91	20.48	21.35	21.82	21.22	22.11	21.68	22.55	23.02
	6H	20.67	21.42	21.17	21.90	22.38	22.35	23.09	22.84	23.58	24.05
	8H	20.88	21.55	21.39	22.05	22.54	22.85	23.52	23.36	24.03	24.51
	12H	21.01	21.60	21.51	22.09	22.65	23.22	23.81	23.73	24.30	24.86
12H	4H	20.11	20.91	20.59	21.39	21.86	21.25	22.05	21.72	22.52	22.99
	6H	20.81	21.48	21.32	21.99	22.47	22.39	23.06	22.90	23.57	24.05
	8H	21.09	21.68	21.59	22.17	22.73	22.97	23.56	23.47	24.05	24.61