

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: P1586594

Luminaire Tested: 22CZSP-A-35-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586594
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-A-35-L835-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 3500 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

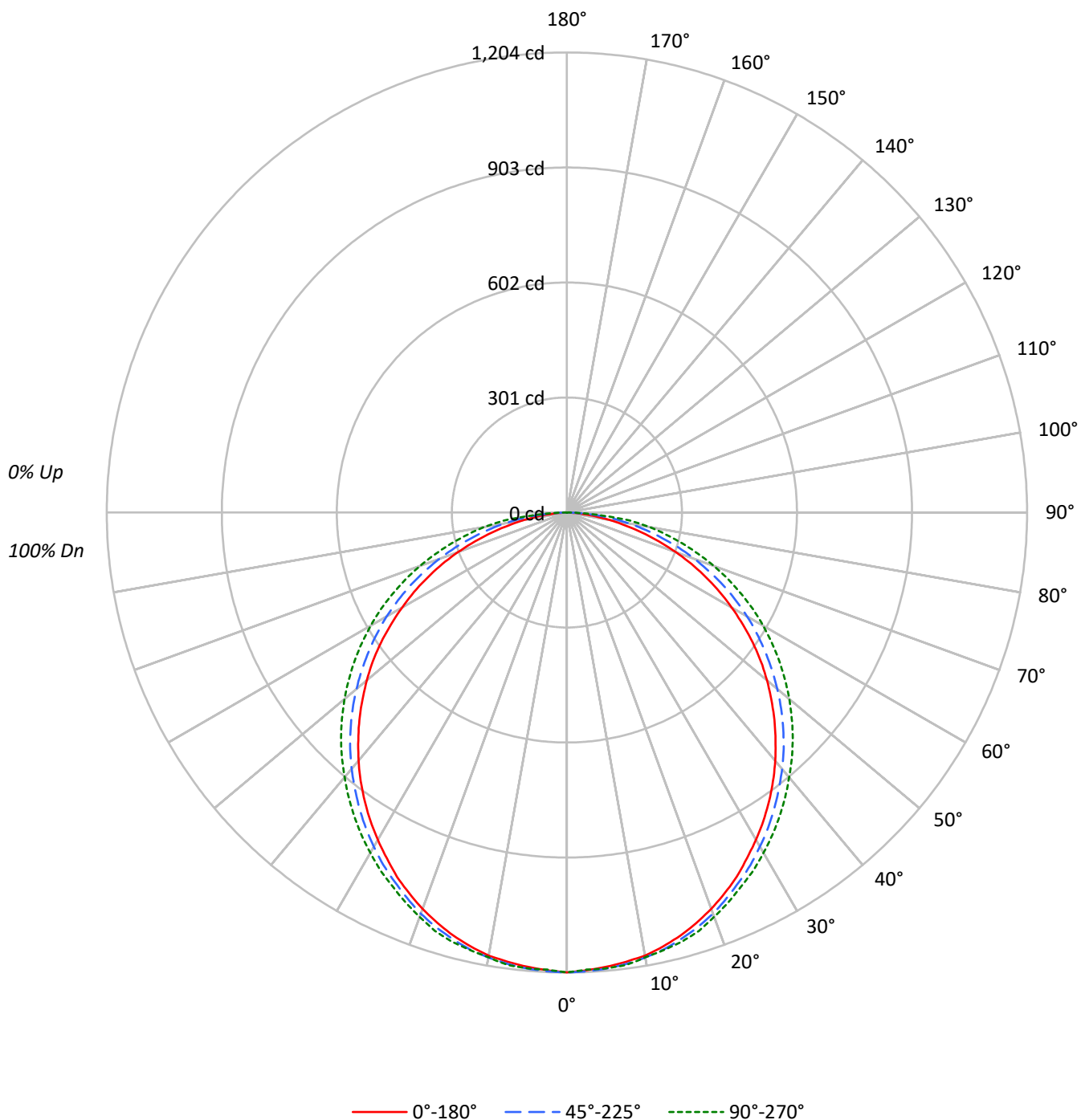
Lumens per Lamp: N/A
Luminaire Lumens: 3514.0 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	3769	3769	3769
5°	3752	3766	3764
10°	3744	3761	3758
15°	3717	3747	3770
20°	3680	3723	3754
25°	3634	3684	3730
30°	3577	3652	3719
35°	3525	3617	3708
40°	3467	3580	3697
45°	3401	3544	3701
50°	3328	3501	3700
55°	3241	3452	3704
60°	3119	3414	3714
65°	2976	3348	3725
70°	2774	3255	3742
75°	2472	3125	3778
80°	2043	2975	3964
85°	1329	2687	3463

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4088 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	3.2
10°-20°	326.0	9.3
20°-30°	491.6	14.0
30°-40°	592.1	16.8
40°-50°	618.4	17.6
50°-60°	567.9	16.2
60°-70°	447.3	12.7
70°-80°	274.4	7.8
80°-90°	82.6	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°	931.4	26.5
0°-40°	1523.5	43.4
0°-60°	2709.7	77.1
0°-90°	3514.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3514.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1204	1204	1204	1204	1204	
5°	1194	1195	1198	1202	1198	113
15°	1147	1149	1156	1163	1163	323
25°	1052	1054	1066	1080	1080	484
35°	922	927	946	965	970	577
45°	768	776	800	828	836	592
55°	594	604	632	668	678	530
65°	402	416	452	490	503	397
75°	204	220	258	299	312	217
85°	37	51	75	95	96	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1203.6	1203.6	1203.6	1203.6	1203.6
2.5°	1199.0	1201.3	1202.1	1202.9	1197.5
5°	1193.6	1195.2	1198.2	1202.1	1197.5
7.5°	1185.9	1187.4	1191.3	1196.7	1194.4
10°	1177.4	1178.2	1182.8	1186.7	1182.0
12.5°	1163.5	1165.9	1171.3	1174.3	1172.8
15°	1146.6	1148.9	1155.8	1162.8	1162.8
17.5°	1126.5	1129.6	1138.1	1147.4	1148.1
20°	1104.2	1106.5	1117.3	1126.5	1126.5
22.5°	1078.7	1081.8	1092.6	1102.6	1104.2
25°	1051.7	1054.1	1066.4	1079.5	1079.5
27.5°	1020.1	1024.8	1040.2	1053.3	1056.4
30°	989.3	993.1	1010.1	1026.3	1028.6
32.5°	956.9	961.5	979.3	997.0	1000.8
35°	922.2	926.8	946.1	965.4	970.0
37.5°	886.0	891.4	911.4	933.8	938.4
40°	848.2	854.3	875.9	899.8	904.5
42.5°	808.1	816.6	839.7	864.4	871.3
45°	768.0	776.5	800.4	828.1	835.8
47.5°	725.6	735.6	760.3	789.6	798.1
50°	683.2	693.2	718.6	750.3	759.5
52.5°	640.0	650.0	676.2	709.4	719.4
55°	593.7	604.5	632.3	667.7	678.5
57.5°	545.9	559.8	589.1	625.3	636.1
60°	498.1	512.0	545.1	580.6	593.0
62.5°	451.1	464.2	498.1	535.9	549.0
65°	401.7	415.6	451.8	489.6	502.7
67.5°	353.1	367.0	403.3	442.6	456.5
70°	303.0	318.5	355.5	394.8	408.7
72.5°	252.9	269.1	306.9	347.0	360.1
75°	204.3	220.5	258.3	299.2	312.3
77.5°	156.5	174.3	211.3	252.9	265.2
80°	113.3	130.3	165.0	205.9	219.8
82.5°	72.5	87.1	121.8	160.4	170.4
85°	37.0	50.9	74.8	94.8	96.4
87.5°	11.6	16.2	24.7	37.0	37.8
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	16.09	17.75	16.45	18.06	18.38	16.92	18.58	17.28	18.89	19.21
	3H	17.84	19.35	18.22	19.68	20.04	19.03	20.54	19.41	20.87	21.23
	4H	18.46	19.88	18.86	20.23	20.61	19.92	21.35	20.32	21.69	22.07
	6H	18.87	20.19	19.28	20.56	20.95	20.70	22.03	21.11	22.39	22.78
	8H	18.98	20.24	19.40	20.63	21.03	21.02	22.29	21.45	22.68	23.07
	12H	19.03	20.24	19.46	20.62	21.05	21.24	22.45	21.66	22.83	23.26
4H	2H	16.86	18.28	17.26	18.63	19.00	17.51	18.93	17.90	19.28	19.65
	3H	18.84	20.03	19.25	20.43	20.83	19.86	21.06	20.27	21.46	21.85
	4H	19.57	20.66	20.00	21.07	21.51	20.91	22.00	21.34	22.41	22.85
	6H	20.10	21.05	20.55	21.49	21.95	21.87	22.82	22.32	23.26	23.71
	8H	20.25	21.14	20.71	21.58	22.05	22.26	23.15	22.72	23.60	24.06
	12H	20.33	21.14	20.81	21.61	22.08	22.54	23.34	23.02	23.82	24.29
8H	4H	20.03	20.92	20.49	21.37	21.83	21.20	22.09	21.66	22.54	23.00
	6H	20.69	21.44	21.19	21.92	22.40	22.31	23.06	22.81	23.54	24.02
	8H	20.90	21.57	21.41	22.08	22.56	22.83	23.49	23.33	24.00	24.48
	12H	21.04	21.64	21.55	22.12	22.68	23.21	23.80	23.72	24.29	24.85
12H	4H	20.12	20.93	20.60	21.40	21.87	21.23	22.03	21.71	22.50	22.97
	6H	20.83	21.50	21.33	22.00	22.48	22.36	23.03	22.87	23.54	24.02
	8H	21.10	21.70	21.61	22.19	22.74	22.94	23.53	23.44	24.02	24.58