

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: P1586362

Luminaire Tested: 22CZSP-35-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586362
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-L930-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 3500 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

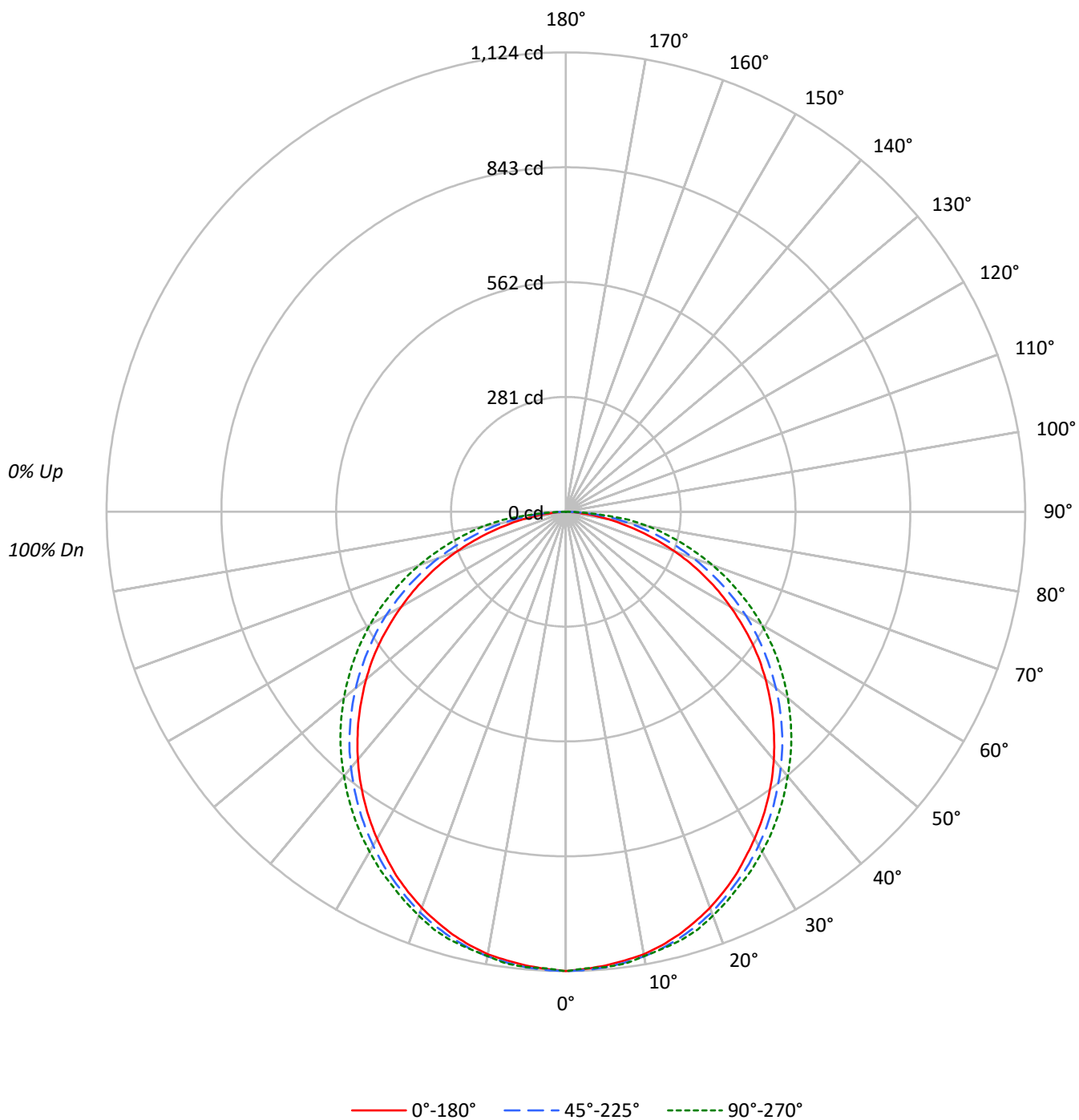
Lumens per Lamp: N/A
Luminaire Lumens: 3281.0 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	3519	3519	3519
5°	3503	3517	3515
10°	3496	3512	3509
15°	3471	3499	3520
20°	3436	3476	3505
25°	3393	3440	3482
30°	3340	3410	3473
35°	3292	3377	3462
40°	3237	3343	3452
45°	3176	3309	3456
50°	3108	3269	3454
55°	3027	3223	3458
60°	2913	3188	3467
65°	2779	3126	3478
70°	2590	3039	3494
75°	2308	2918	3528
80°	1908	2779	3700
85°	1243	2508	3234

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3817 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	3.2
10°-20°	304.3	9.3
20°-30°	459.0	14.0
30°-40°	552.9	16.9
40°-50°	577.4	17.6
50°-60°	530.2	16.2
60°-70°	417.6	12.7
70°-80°	256.2	7.8
80°-90°	77.1	2.4
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°	869.6	26.5
0°-40°	1422.5	43.4
0°-60°	2530.1	77.1
0°-90°	3281.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3281.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1124	1124	1124	1124	1124	
5°	1114	1116	1119	1122	1118	106
15°	1071	1073	1079	1086	1086	302
25°	982	984	996	1008	1008	452
35°	861	865	883	901	906	539
45°	717	725	747	773	780	553
55°	554	564	590	624	634	495
65°	375	388	422	457	469	371
75°	191	206	241	279	292	202
85°	35	48	70	89	90	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1123.8	1123.8	1123.8	1123.8	1123.8
2.5°	1119.5	1121.7	1122.4	1123.1	1118.1
5°	1114.5	1115.9	1118.8	1122.4	1118.1
7.5°	1107.3	1108.7	1112.3	1117.4	1115.2
10°	1099.4	1100.1	1104.4	1108.0	1103.7
12.5°	1086.4	1088.6	1093.6	1096.5	1095.0
15°	1070.6	1072.7	1079.2	1085.7	1085.7
17.5°	1051.8	1054.7	1062.6	1071.3	1072.0
20°	1031.0	1033.1	1043.2	1051.8	1051.8
22.5°	1007.2	1010.1	1020.2	1029.5	1031.0
25°	982.0	984.2	995.7	1007.9	1007.9
27.5°	952.5	956.8	971.2	983.4	986.3
30°	923.7	927.3	943.1	958.2	960.4
32.5°	893.4	897.8	914.3	930.9	934.5
35°	861.1	865.4	883.4	901.4	905.7
37.5°	827.2	832.3	851.0	871.9	876.2
40°	791.9	797.7	817.9	840.2	844.5
42.5°	754.5	762.4	784.0	807.1	813.5
45°	717.1	725.0	747.3	773.2	780.4
47.5°	677.5	686.8	709.9	737.2	745.1
50°	637.9	647.2	671.0	700.5	709.1
52.5°	597.6	606.9	631.4	662.3	671.7
55°	554.4	564.4	590.4	623.5	633.5
57.5°	509.7	522.7	550.0	583.9	594.0
60°	465.1	478.0	509.0	542.1	553.6
62.5°	421.2	433.4	465.1	500.4	512.6
65°	375.1	388.0	421.9	457.2	469.4
67.5°	329.7	342.7	376.5	413.2	426.2
70°	282.9	297.3	331.9	368.6	381.6
72.5°	236.1	251.3	286.5	324.0	336.2
75°	190.8	205.9	241.2	279.3	291.6
77.5°	146.1	162.7	197.3	236.1	247.7
80°	105.8	121.7	154.1	192.2	205.2
82.5°	67.7	81.4	113.8	149.7	159.1
85°	34.6	47.5	69.8	88.6	90.0
87.5°	10.8	15.1	23.0	34.6	35.3
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	15.85	17.51	16.21	17.83	18.14	16.68	18.34	17.04	18.66	18.97
	3H	17.60	19.11	17.98	19.44	19.80	18.80	20.30	19.17	20.63	20.99
	4H	18.22	19.65	18.62	19.99	20.37	19.69	21.11	20.08	21.45	21.83
	6H	18.63	19.95	19.04	20.32	20.71	20.47	21.79	20.88	22.15	22.54
	8H	18.74	20.00	19.17	20.39	20.79	20.79	22.05	21.21	22.44	22.84
	12H	18.79	20.00	19.22	20.39	20.81	21.00	22.21	21.43	22.59	23.02
4H	2H	16.62	18.04	17.02	18.39	18.77	17.27	18.69	17.67	19.04	19.41
	3H	18.60	19.80	19.01	20.19	20.59	19.62	20.82	20.03	21.22	21.62
	4H	19.34	20.42	19.77	20.83	21.27	20.67	21.76	21.11	22.17	22.61
	6H	19.86	20.82	20.32	21.26	21.71	21.63	22.58	22.08	23.02	23.47
	8H	20.01	20.90	20.47	21.34	21.81	22.02	22.92	22.48	23.36	23.82
	12H	20.09	20.90	20.57	21.37	21.84	22.30	23.10	22.78	23.58	24.05
8H	4H	19.79	20.69	20.25	21.13	21.59	20.96	21.86	21.42	22.30	22.76
	6H	20.46	21.20	20.95	21.69	22.16	22.08	22.82	22.57	23.31	23.78
	8H	20.67	21.33	21.17	21.84	22.32	22.59	23.26	23.09	23.76	24.25
	12H	20.81	21.40	21.31	21.89	22.45	22.97	23.56	23.48	24.05	24.61
12H	4H	19.88	20.69	20.36	21.16	21.63	20.99	21.79	21.47	22.27	22.73
	6H	20.59	21.26	21.09	21.76	22.25	22.12	22.79	22.63	23.30	23.78
	8H	20.87	21.46	21.37	21.95	22.51	22.70	23.29	23.21	23.78	24.34