

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: P1586382

Luminaire Tested: 22CZSP-37HE-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586382
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-37HE-L930-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 3500 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

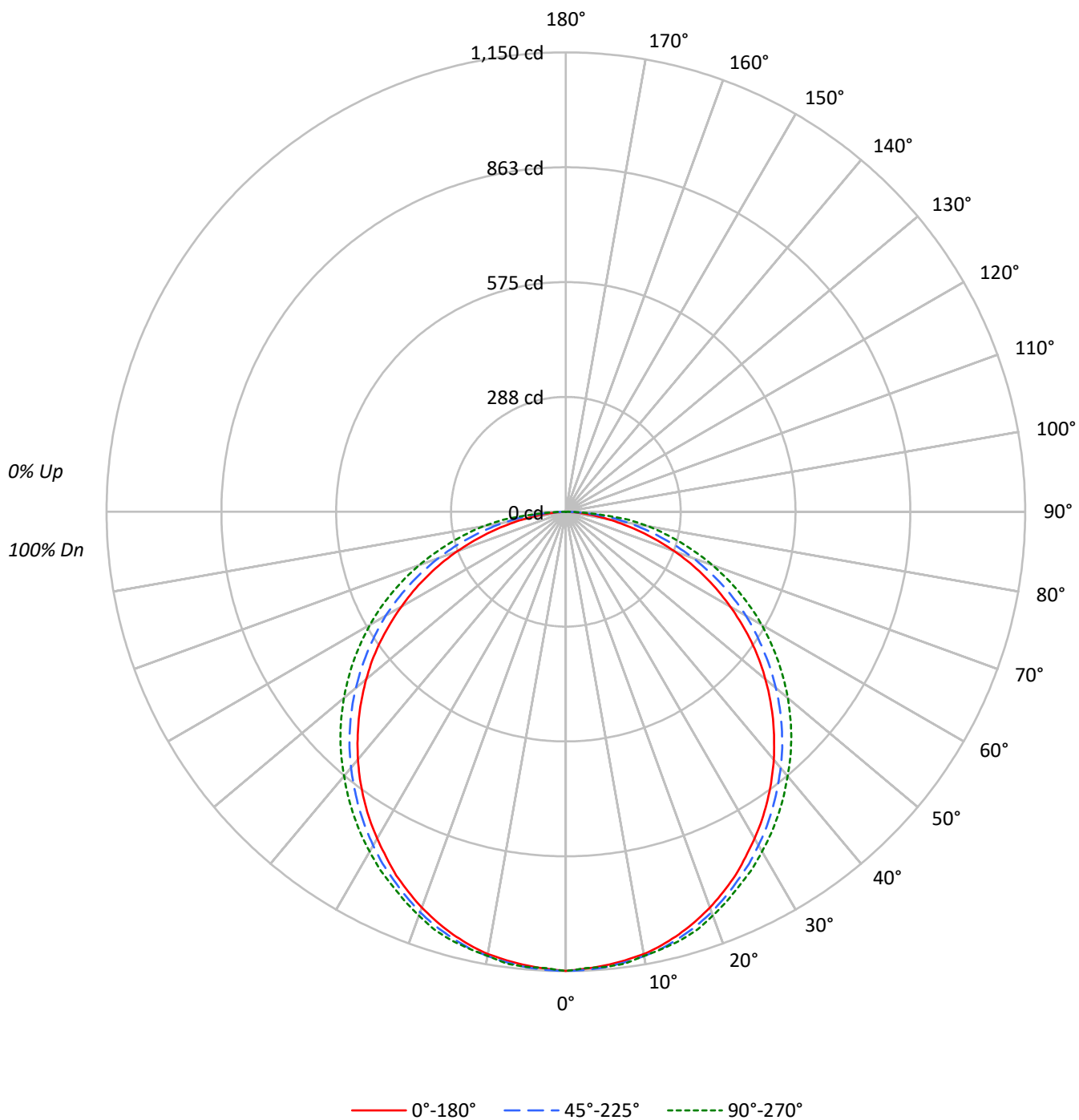
Lumens per Lamp: N/A
Luminaire Lumens: 3356.0 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.1
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	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	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°	3599	3599	3599
5°	3583	3597	3595
10°	3575	3592	3589
15°	3550	3579	3600
20°	3514	3556	3585
25°	3470	3519	3562
30°	3416	3488	3552
35°	3367	3454	3541
40°	3311	3419	3531
45°	3248	3385	3535
50°	3178	3343	3534
55°	3095	3296	3538
60°	2979	3260	3547
65°	2843	3197	3557
70°	2650	3108	3573
75°	2360	2985	3608
80°	1953	2842	3785
85°	1268	2565	3305

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3903 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.7	3.2
10°-20°	311.3	9.3
20°-30°	469.5	14.0
30°-40°	565.5	16.9
40°-50°	590.6	17.6
50°-60°	542.3	16.2
60°-70°	427.2	12.7
70°-80°	262.1	7.8
80°-90°	78.9	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°	889.5	26.5
0°-40°	1455.0	43.4
0°-60°	2587.9	77.1
0°-90°	3356.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3356.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1150	1150	1150	1150	1150	
5°	1140	1141	1144	1148	1144	108
15°	1095	1097	1104	1110	1110	309
25°	1004	1007	1018	1031	1031	462
35°	881	885	904	922	926	551
45°	734	742	764	791	798	566
55°	567	577	604	638	648	506
65°	384	397	432	468	480	380
75°	195	211	247	286	298	207
85°	35	49	71	91	92	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1149.5	1149.5	1149.5	1149.5	1149.5
2.5°	1145.1	1147.3	1148.0	1148.8	1143.6
5°	1139.9	1141.4	1144.4	1148.0	1143.6
7.5°	1132.6	1134.1	1137.7	1142.9	1140.7
10°	1124.5	1125.2	1129.6	1133.3	1128.9
12.5°	1111.2	1113.4	1118.6	1121.5	1120.1
15°	1095.0	1097.2	1103.9	1110.5	1110.5
17.5°	1075.9	1078.8	1086.9	1095.8	1096.5
20°	1054.5	1056.7	1067.0	1075.9	1075.9
22.5°	1030.2	1033.2	1043.5	1053.1	1054.5
25°	1004.4	1006.7	1018.4	1031.0	1031.0
27.5°	974.3	978.7	993.4	1005.9	1008.9
30°	944.8	948.5	964.7	980.1	982.4
32.5°	913.9	918.3	935.2	952.2	955.8
35°	880.7	885.2	903.6	922.0	926.4
37.5°	846.1	851.3	870.4	891.8	896.2
40°	810.0	815.9	836.5	859.4	863.8
42.5°	771.7	779.8	801.9	825.5	832.1
45°	733.5	741.6	764.4	790.9	798.3
47.5°	693.0	702.5	726.1	754.1	762.2
50°	652.4	662.0	686.3	716.5	725.4
52.5°	611.2	620.8	645.8	677.5	687.1
55°	567.0	577.3	603.8	637.7	648.0
57.5°	521.4	534.6	562.6	597.2	607.5
60°	475.7	489.0	520.6	554.5	566.3
62.5°	430.8	443.3	475.7	511.8	524.3
65°	383.7	396.9	431.5	467.6	480.1
67.5°	337.3	350.5	385.1	422.7	435.9
70°	289.4	304.1	339.5	377.0	390.3
72.5°	241.5	257.0	293.1	331.4	343.9
75°	195.1	210.6	246.7	285.7	298.2
77.5°	149.5	166.4	201.8	241.5	253.3
80°	108.3	124.5	157.6	196.6	209.9
82.5°	69.2	83.2	116.4	153.2	162.7
85°	35.3	48.6	71.4	90.6	92.0
87.5°	11.0	15.5	23.6	35.3	36.1
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	15.93	17.59	16.29	17.90	18.22	16.76	18.42	17.12	18.73	19.05
	3H	17.68	19.19	18.06	19.52	19.88	18.87	20.38	19.25	20.71	21.07
	4H	18.30	19.72	18.70	20.07	20.45	19.76	21.19	20.16	21.53	21.91
	6H	18.71	20.03	19.12	20.40	20.79	20.54	21.87	20.95	22.23	22.62
	8H	18.82	20.08	19.24	20.47	20.87	20.86	22.13	21.29	22.52	22.91
	12H	18.87	20.08	19.30	20.46	20.89	21.08	22.29	21.50	22.67	23.10
4H	2H	16.70	18.12	17.10	18.47	18.84	17.35	18.77	17.74	19.12	19.49
	3H	18.68	19.87	19.09	20.27	20.67	19.70	20.90	20.11	21.30	21.69
	4H	19.41	20.50	19.84	20.91	21.35	20.75	21.84	21.18	22.25	22.69
	6H	19.94	20.89	20.39	21.33	21.79	21.71	22.66	22.16	23.10	23.55
	8H	20.09	20.98	20.55	21.42	21.89	22.10	22.99	22.56	23.44	23.90
	12H	20.17	20.98	20.65	21.45	21.92	22.38	23.18	22.86	23.66	24.13
8H	4H	19.87	20.76	20.33	21.21	21.67	21.04	21.93	21.50	22.38	22.84
	6H	20.53	21.28	21.03	21.76	22.24	22.15	22.90	22.65	23.38	23.86
	8H	20.74	21.41	21.25	21.92	22.40	22.67	23.33	23.17	23.84	24.32
	12H	20.88	21.48	21.39	21.97	22.52	23.05	23.64	23.56	24.13	24.69
12H	4H	19.96	20.77	20.44	21.24	21.71	21.07	21.87	21.55	22.34	22.81
	6H	20.67	21.34	21.17	21.84	22.33	22.20	22.87	22.71	23.38	23.86
	8H	20.94	21.54	21.45	22.03	22.58	22.78	23.37	23.28	23.86	24.42