

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: P1586582

Luminaire Tested: 22CZSP-A-33HE-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586582
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-33HE-L930-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 3000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

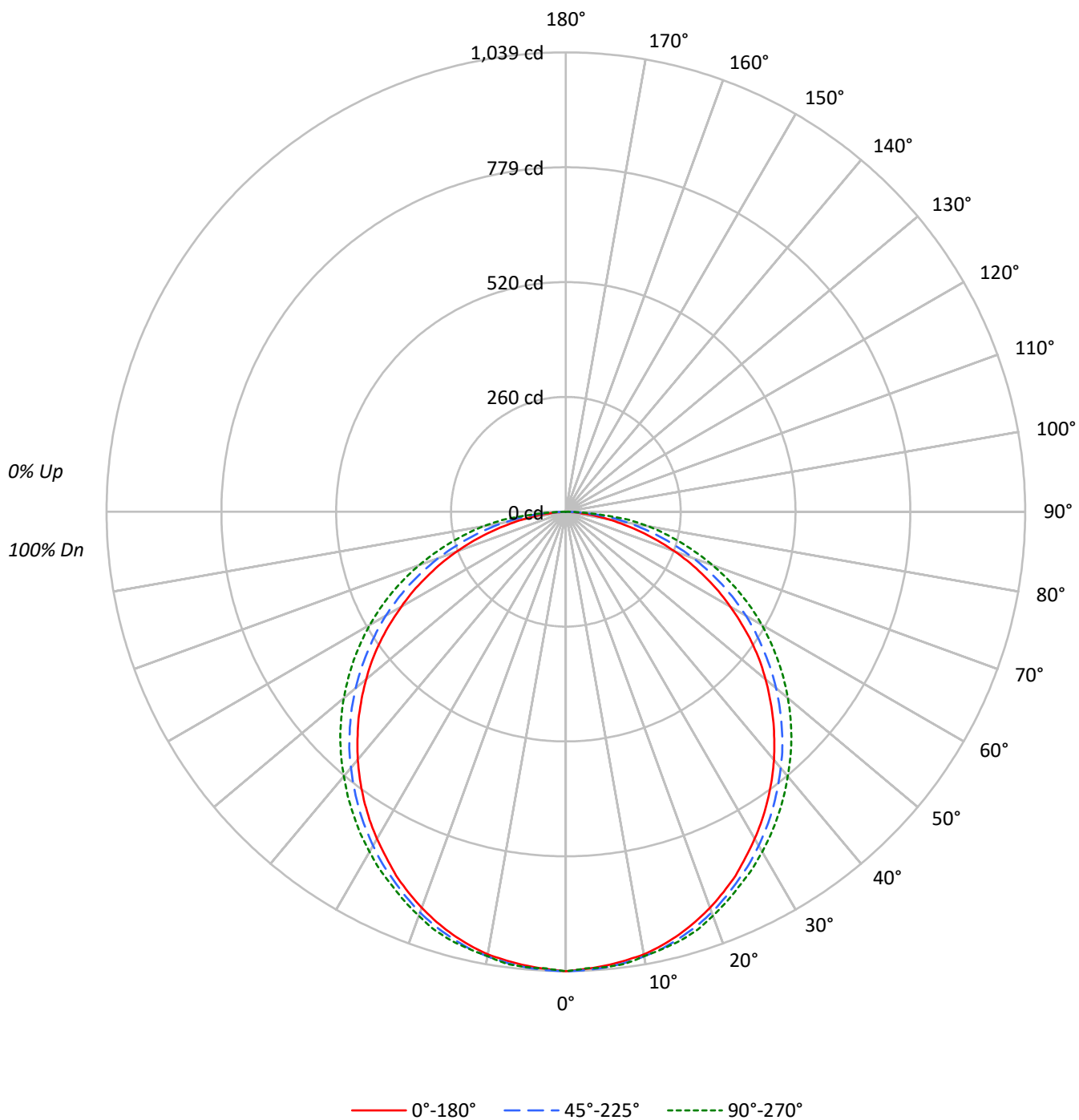
Lumens per Lamp: N/A
Luminaire Lumens: 3034.0 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
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°	3254	3254	3254
5°	3239	3252	3250
10°	3232	3247	3245
15°	3209	3235	3254
20°	3177	3215	3241
25°	3138	3181	3220
30°	3088	3153	3211
35°	3044	3123	3201
40°	2993	3091	3192
45°	2936	3060	3196
50°	2873	3023	3195
55°	2798	2980	3199
60°	2694	2948	3206
65°	2570	2890	3216
70°	2395	2810	3230
75°	2134	2698	3262
80°	1765	2570	3421
85°	1150	2321	2989

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3529 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	3.2
10°-20°	281.4	9.3
20°-30°	424.4	14.0
30°-40°	511.2	16.8
40°-50°	533.9	17.6
50°-60°	490.3	16.2
60°-70°	386.2	12.7
70°-80°	236.9	7.8
80°-90°	71.3	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°	804.1	26.5
0°-40°	1315.4	43.4
0°-60°	2339.6	77.1
0°-90°	3034.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3034.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1039	1039	1039	1039	1039	
5°	1031	1032	1035	1038	1034	98
15°	990	992	998	1004	1004	279
25°	908	910	921	932	932	418
35°	796	800	817	834	838	498
45°	663	670	691	715	722	511
55°	513	522	546	576	586	458
65°	347	359	390	423	434	343
75°	176	190	223	258	270	187
85°	32	44	65	82	83	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1039.2	1039.2	1039.2	1039.2	1039.2
2.5°	1035.2	1037.2	1037.9	1038.6	1033.9
5°	1030.6	1031.9	1034.6	1037.9	1033.9
7.5°	1023.9	1025.2	1028.6	1033.2	1031.2
10°	1016.6	1017.3	1021.3	1024.6	1020.6
12.5°	1004.6	1006.6	1011.3	1013.9	1012.6
15°	990.0	992.0	997.9	1003.9	1003.9
17.5°	972.7	975.3	982.6	990.6	991.3
20°	953.3	955.3	964.7	972.7	972.7
22.5°	931.4	934.0	943.4	952.0	953.3
25°	908.1	910.1	920.7	932.0	932.0
27.5°	880.8	884.8	898.1	909.4	912.1
30°	854.1	857.5	872.1	886.1	888.1
32.5°	826.2	830.2	845.5	860.8	864.1
35°	796.2	800.2	816.9	833.5	837.5
37.5°	764.9	769.6	786.9	806.2	810.2
40°	732.3	737.6	756.3	776.9	780.9
42.5°	697.7	705.0	725.0	746.3	752.3
45°	663.1	670.4	691.0	715.0	721.7
47.5°	626.5	635.1	656.4	681.7	689.0
50°	589.8	598.5	620.5	647.8	655.8
52.5°	552.6	561.2	583.9	612.5	621.1
55°	512.6	521.9	545.9	576.5	585.9
57.5°	471.3	483.3	508.6	539.9	549.2
60°	430.1	442.1	470.7	501.3	512.0
62.5°	389.5	400.8	430.1	462.7	474.0
65°	346.9	358.8	390.1	422.7	434.1
67.5°	304.9	316.9	348.2	382.1	394.1
70°	261.6	275.0	306.9	340.9	352.8
72.5°	218.4	232.3	265.0	299.6	310.9
75°	176.4	190.4	223.0	258.3	269.6
77.5°	135.1	150.5	182.4	218.4	229.0
80°	97.9	112.5	142.5	177.8	189.7
82.5°	62.6	75.2	105.2	138.5	147.1
85°	32.0	43.9	64.6	81.9	83.2
87.5°	10.0	14.0	21.3	32.0	32.6
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	15.58	17.24	15.94	17.55	17.87	16.41	18.07	16.77	18.38	18.70
	3H	17.33	18.84	17.71	19.17	19.53	18.52	20.03	18.90	20.36	20.72
	4H	17.95	19.37	18.35	19.72	20.10	19.41	20.84	19.81	21.18	21.56
	6H	18.36	19.68	18.77	20.05	20.44	20.19	21.51	20.60	21.88	22.27
	8H	18.47	19.73	18.89	20.12	20.52	20.51	21.78	20.94	22.17	22.56
	12H	18.52	19.73	18.95	20.11	20.54	20.73	21.94	21.15	22.32	22.75
4H	2H	16.35	17.77	16.75	18.12	18.49	17.00	18.42	17.39	18.76	19.14
	3H	18.33	19.52	18.74	19.92	20.32	19.35	20.55	19.76	20.95	21.34
	4H	19.06	20.15	19.49	20.56	21.00	20.40	21.49	20.83	21.90	22.34
	6H	19.59	20.54	20.04	20.98	21.44	21.36	22.31	21.81	22.75	23.20
	8H	19.74	20.63	20.20	21.07	21.54	21.75	22.64	22.21	23.09	23.55
	12H	19.82	20.63	20.30	21.10	21.57	22.03	22.83	22.51	23.31	23.78
8H	4H	19.52	20.41	19.98	20.86	21.32	20.69	21.58	21.15	22.03	22.49
	6H	20.18	20.93	20.68	21.41	21.89	21.80	22.55	22.30	23.03	23.51
	8H	20.39	21.06	20.90	21.57	22.05	22.32	22.98	22.82	23.49	23.97
	12H	20.53	21.13	21.04	21.61	22.17	22.70	23.29	23.21	23.78	24.34
12H	4H	19.61	20.42	20.09	20.89	21.36	20.72	21.52	21.19	21.99	22.46
	6H	20.32	20.99	20.82	21.49	21.97	21.85	22.52	22.36	23.03	23.51
	8H	20.59	21.19	21.10	21.68	22.23	22.43	23.02	22.93	23.51	24.07