

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: P1586571

Luminaire Tested: 22CZSP-A-31-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586571
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-31-L950
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 3000 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

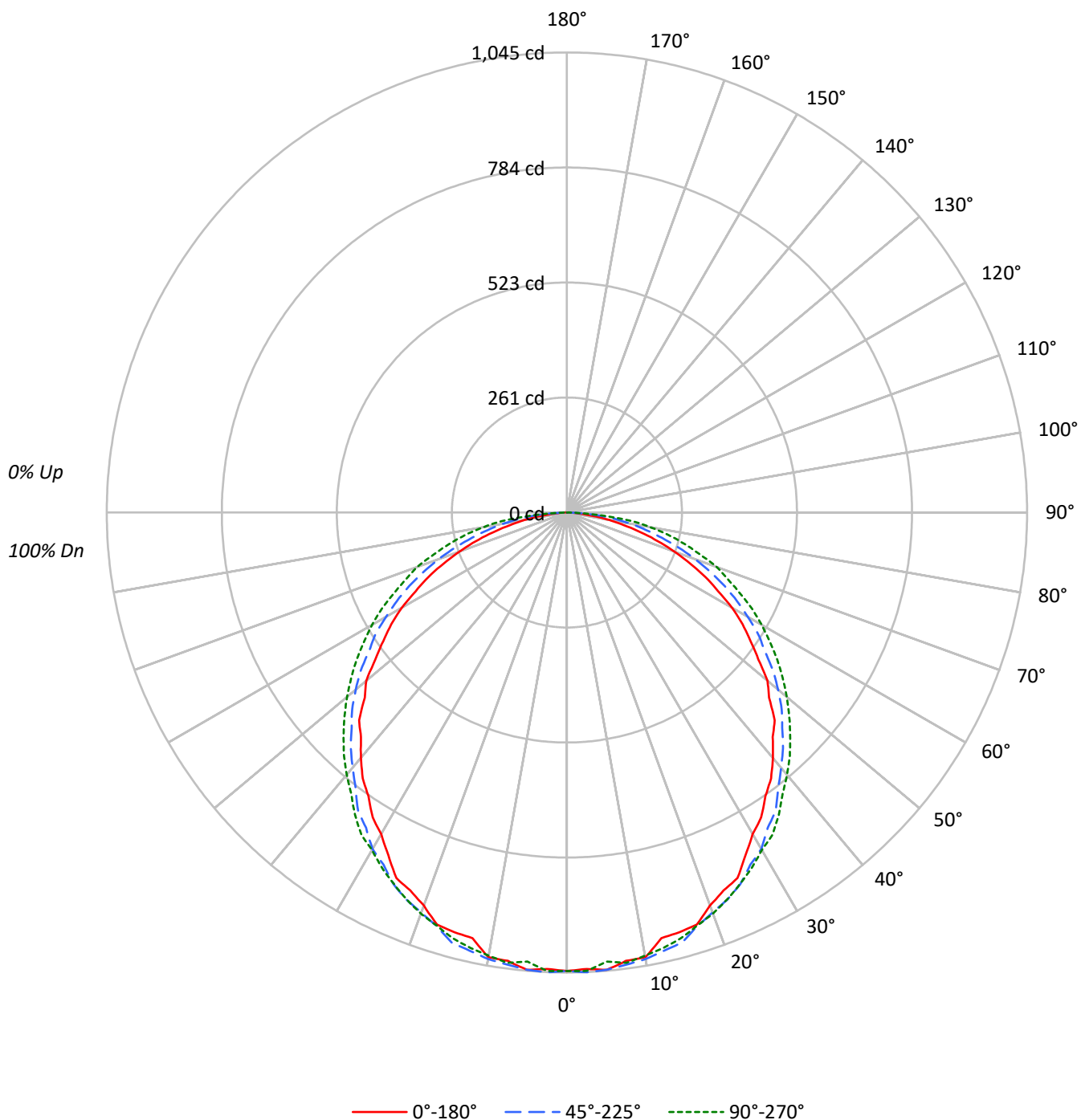
Lumens per Lamp: N/A
Luminaire Lumens: 3041.0 lumens
Efficiency: N/A
Efficacy: 144.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 21
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	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°	3261	3261	3261
5°	3278	3278	3219
10°	3262	3275	3250
15°	3200	3278	3246
20°	3166	3222	3231
25°	3166	3220	3215
30°	3051	3192	3201
35°	3005	3161	3206
40°	2975	3094	3179
45°	2955	3061	3176
50°	2897	3049	3175
55°	2779	2992	3183
60°	2713	2969	3200
65°	2575	2927	3210
70°	2375	2832	3319
75°	2111	2706	3350
80°	1755	2654	3473
85°	1071	2378	2935

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3594 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.8	3.2
10°-20°	282.2	9.3
20°-30°	425.7	14.0
30°-40°	511.3	16.8
40°-50°	533.7	17.6
50°-60°	491.4	16.2
60°-70°	388.1	12.8
70°-80°	239.0	7.9
80°-90°	70.8	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°	806.7	26.5
0°-40°	1318.0	43.3
0°-60°	2343.1	77.1
0°-90°	3041.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3041.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1042	1042	1042	1042	1042	
5°	1043	1032	1043	1044	1024	99
15°	987	1001	1011	1006	1001	279
25°	916	923	932	928	931	418
35°	786	800	827	831	839	494
45°	667	672	691	706	717	510
55°	509	523	548	573	583	457
65°	348	360	395	424	433	342
75°	174	191	224	259	277	185
85°	30	43	66	78	82	40
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1041.5	1041.5	1041.5	1041.5	1041.5
2.5°	1037.7	1048.7	1045.4	1047.4	1042.2
5°	1042.8	1032.5	1042.8	1044.1	1024.0
7.5°	1027.3	1028.6	1035.7	1037.7	1031.8
10°	1026.0	1029.9	1029.9	1023.4	1022.1
12.5°	990.3	1009.8	1019.5	1024.0	1013.0
15°	987.1	1000.7	1011.1	1006.5	1001.3
17.5°	981.2	977.3	984.5	989.7	983.8
20°	950.1	956.6	967.0	968.3	969.6
22.5°	929.3	931.3	952.0	954.0	951.4
25°	916.4	922.9	931.9	928.0	930.6
27.5°	878.1	893.7	902.1	909.9	909.9
30°	843.7	861.9	882.7	885.2	885.2
32.5°	821.0	833.4	848.9	854.1	868.4
35°	786.0	800.3	826.9	830.8	838.6
37.5°	761.4	775.6	788.0	801.6	804.8
40°	727.7	742.6	756.8	772.4	777.6
42.5°	692.0	707.5	726.4	742.6	749.1
45°	667.3	672.5	691.3	706.3	717.3
47.5°	622.6	637.5	661.5	680.3	684.8
50°	594.7	600.5	625.8	651.1	651.8
52.5°	548.0	565.5	590.2	614.2	617.4
55°	509.1	522.7	548.0	572.7	583.0
57.5°	472.8	483.2	515.6	540.2	546.1
60°	433.2	444.2	474.1	502.6	511.0
62.5°	387.2	402.7	435.2	462.4	474.1
65°	347.6	359.9	395.0	423.5	433.2
67.5°	302.9	319.7	352.8	384.6	395.0
70°	259.4	276.3	309.3	342.4	362.5
72.5°	216.6	234.1	267.2	305.5	316.5
75°	174.5	191.3	223.7	259.4	276.9
77.5°	132.9	151.1	184.2	219.9	236.7
80°	97.3	111.5	147.2	178.3	192.6
82.5°	60.3	75.2	108.3	137.5	149.8
85°	29.8	42.8	66.2	78.5	81.7
87.5°	9.1	13.6	20.8	27.2	31.1
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	15.57	17.24	15.94	17.55	17.86	16.40	18.06	16.76	18.37	18.69
	3H	17.33	18.84	17.70	19.16	19.52	18.54	20.05	18.92	20.38	20.74
	4H	17.94	19.36	18.34	19.71	20.09	19.46	20.88	19.86	21.23	21.60
	6H	18.34	19.67	18.75	20.03	20.42	20.26	21.58	20.67	21.94	22.33
	8H	18.45	19.71	18.87	20.10	20.50	20.58	21.84	21.00	22.23	22.63
	12H	18.49	19.70	18.92	20.08	20.51	20.79	22.00	21.22	22.38	22.81
4H	2H	16.37	17.79	16.76	18.14	18.51	17.00	18.42	17.40	18.77	19.15
	3H	18.34	19.54	18.75	19.93	20.33	19.38	20.58	19.79	20.98	21.38
	4H	19.07	20.16	19.50	20.57	21.00	20.45	21.54	20.88	21.95	22.38
	6H	19.59	20.54	20.04	20.98	21.44	21.42	22.37	21.87	22.81	23.26
	8H	19.73	20.62	20.19	21.06	21.53	21.81	22.71	22.27	23.15	23.61
	12H	19.81	20.61	20.29	21.08	21.55	22.08	22.88	22.56	23.36	23.83
8H	4H	19.54	20.43	19.99	20.87	21.33	20.74	21.63	21.20	22.07	22.54
	6H	20.19	20.94	20.68	21.42	21.90	21.86	22.61	22.36	23.09	23.57
	8H	20.40	21.06	20.90	21.57	22.05	22.37	23.04	22.88	23.54	24.03
	12H	20.53	21.12	21.03	21.61	22.17	22.74	23.33	23.25	23.82	24.38
12H	4H	19.63	20.43	20.11	20.91	21.37	20.76	21.57	21.24	22.04	22.51
	6H	20.33	21.00	20.84	21.50	21.99	21.91	22.58	22.42	23.09	23.57
	8H	20.60	21.19	21.11	21.68	22.24	22.49	23.08	22.99	23.57	24.13