

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: P1586567

Luminaire Tested: 22CZSP-A-31-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586567
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-L940
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 3000 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

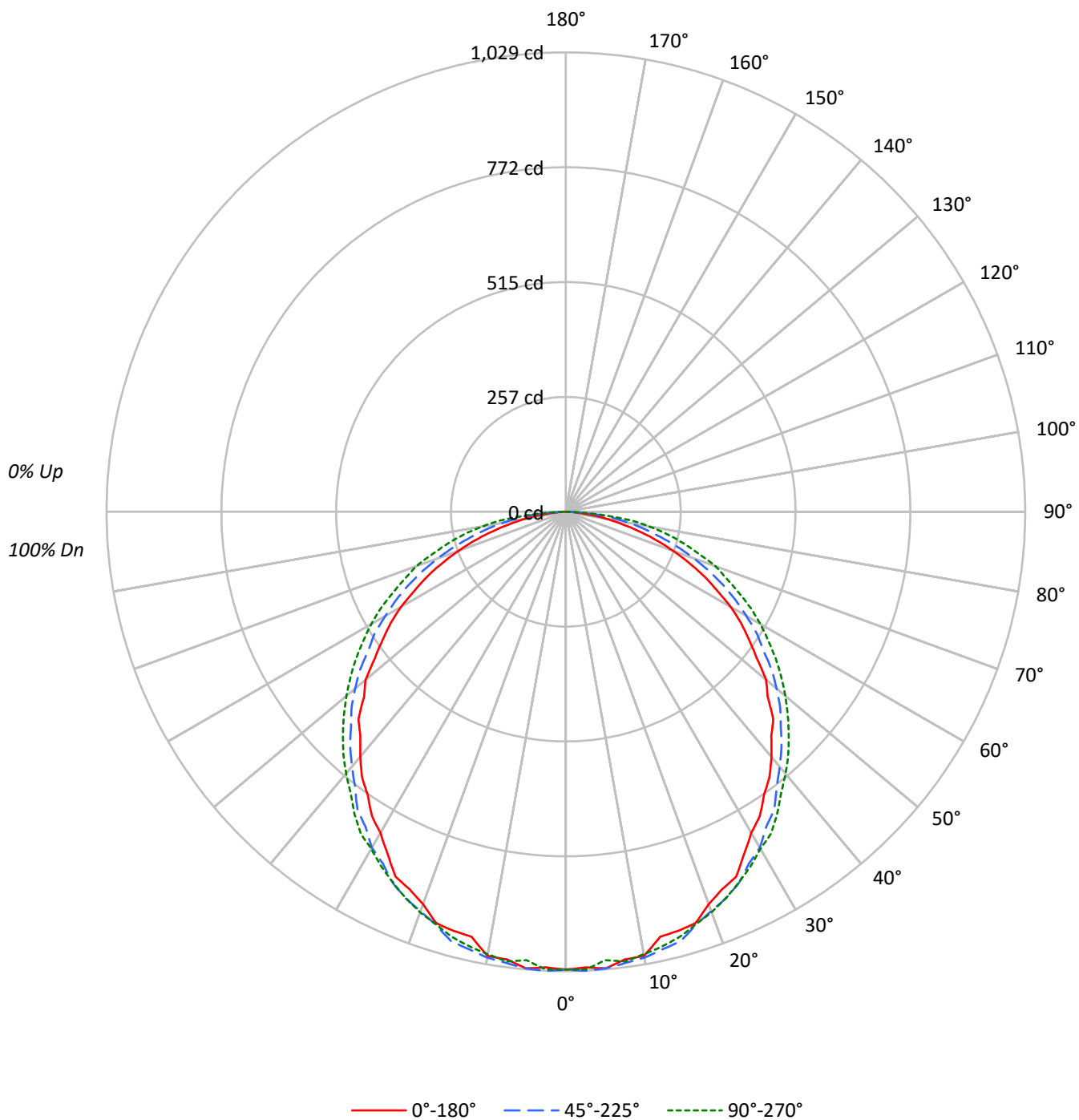
Lumens per Lamp: N/A
Luminaire Lumens: 2994.0 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1586567

CATALOG NUMBER: 22CZSP-A-31-L940

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°	3211	3211	3211
5°	3227	3227	3169
10°	3212	3224	3200
15°	3150	3227	3196
20°	3117	3172	3181
25°	3117	3170	3166
30°	3004	3142	3151
35°	2958	3112	3156
40°	2928	3046	3130
45°	2909	3014	3127
50°	2852	3002	3126
55°	2736	2945	3134
60°	2671	2923	3151
65°	2535	2881	3160
70°	2338	2789	3268
75°	2079	2665	3298
80°	1728	2613	3419
85°	1056	2339	2892

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3539 cd/sqm

TEST NUMBER: P1586567

CATALOG NUMBER: 22CZSP-A-31-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	3.2
10°-20°	277.9	9.3
20°-30°	419.1	14.0
30°-40°	503.4	16.8
40°-50°	525.5	17.6
50°-60°	483.8	16.2
60°-70°	382.1	12.8
70°-80°	235.3	7.9
80°-90°	69.8	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°	794.2	26.5
0°-40°	1297.6	43.3
0°-60°	2306.9	77.1
0°-90°	2994.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2994.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1025	1025	1025	1025	1025	
5°	1027	1016	1027	1028	1008	97
15°	972	985	995	991	986	275
25°	902	909	918	914	916	411
35°	774	788	814	818	826	486
45°	657	662	681	695	706	502
55°	501	515	540	564	574	450
65°	342	354	389	417	426	337
75°	172	188	220	255	273	182
85°	29	42	65	77	80	40
90°	0	0	0	0	0	

TEST NUMBER: P1586567

CATALOG NUMBER: 22CZSP-A-31-L940

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1025.4	1025.4	1025.4	1025.4	1025.4
2.5°	1021.6	1032.5	1029.3	1031.2	1026.1
5°	1026.7	1016.5	1026.7	1028.0	1008.2
7.5°	1011.4	1012.7	1019.7	1021.6	1015.9
10°	1010.1	1014.0	1014.0	1007.6	1006.3
12.5°	975.0	994.2	1003.7	1008.2	997.3
15°	971.8	985.2	995.4	991.0	985.9
17.5°	966.1	962.2	969.3	974.4	968.6
20°	935.4	941.8	952.0	953.3	954.6
22.5°	915.0	916.9	937.3	939.2	936.7
25°	902.2	908.6	917.5	913.7	916.3
27.5°	864.5	879.9	888.2	895.8	895.8
30°	830.7	848.6	869.0	871.6	871.6
32.5°	808.4	820.5	835.8	840.9	855.0
35°	773.9	787.9	814.1	817.9	825.6
37.5°	749.6	763.7	775.8	789.2	792.4
40°	716.4	731.1	745.1	760.5	765.6
42.5°	681.3	696.6	715.1	731.1	737.5
45°	657.0	662.1	680.6	695.3	706.2
47.5°	613.0	627.7	651.3	669.8	674.3
50°	585.5	591.3	616.2	641.1	641.7
52.5°	539.5	556.8	581.0	604.7	607.9
55°	501.2	514.6	539.5	563.8	574.0
57.5°	465.5	475.7	507.6	531.9	537.6
60°	426.5	437.4	466.7	494.8	503.1
62.5°	381.2	396.5	428.4	455.3	466.7
65°	342.2	354.4	388.9	416.9	426.5
67.5°	298.2	314.8	347.3	378.6	388.9
70°	255.4	272.0	304.6	337.1	356.9
72.5°	213.3	230.5	263.1	300.7	311.6
75°	171.8	188.4	220.3	255.4	272.6
77.5°	130.9	148.8	181.3	216.5	233.1
80°	95.8	109.8	144.9	175.6	189.6
82.5°	59.4	74.1	106.6	135.4	147.5
85°	29.4	42.1	65.1	77.3	80.5
87.5°	8.9	13.4	20.4	26.8	30.6
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1586567

CATALOG NUMBER: 22CZSP-A-31-L940

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	15.52	17.18	15.88	17.50	17.81	16.34	18.00	16.71	18.32	18.63
	3H	17.27	18.78	17.65	19.11	19.47	18.49	20.00	18.87	20.32	20.68
	4H	17.89	19.31	18.28	19.66	20.03	19.40	20.83	19.80	21.17	21.55
	6H	18.29	19.61	18.70	19.97	20.37	20.21	21.53	20.62	21.89	22.28
	8H	18.39	19.66	18.82	20.04	20.44	20.53	21.79	20.95	22.18	22.58
	12H	18.44	19.65	18.87	20.03	20.46	20.73	21.94	21.16	22.32	22.75
4H	2H	16.31	17.73	16.71	18.08	18.46	16.95	18.37	17.35	18.72	19.09
	3H	18.28	19.48	18.69	19.88	20.28	19.33	20.53	19.74	20.92	21.32
	4H	19.02	20.10	19.45	20.52	20.95	20.39	21.48	20.83	21.89	22.33
	6H	19.54	20.49	19.99	20.93	21.38	21.36	22.31	21.81	22.75	23.21
	8H	19.68	20.57	20.14	21.01	21.47	21.76	22.65	22.22	23.09	23.56
	12H	19.75	20.56	20.23	21.03	21.50	22.03	22.83	22.51	23.31	23.77
8H	4H	19.48	20.37	19.94	20.82	21.28	20.68	21.58	21.14	22.02	22.48
	6H	20.14	20.88	20.63	21.37	21.84	21.81	22.55	22.30	23.04	23.51
	8H	20.34	21.01	20.85	21.52	22.00	22.32	22.99	22.82	23.49	23.97
	12H	20.47	21.06	20.98	21.55	22.11	22.69	23.28	23.19	23.77	24.33
12H	4H	19.57	20.38	20.05	20.85	21.32	20.71	21.51	21.19	21.99	22.46
	6H	20.28	20.95	20.78	21.45	21.93	21.86	22.53	22.37	23.03	23.52
	8H	20.55	21.14	21.05	21.63	22.19	22.43	23.02	22.94	23.51	24.07