

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: P1586570

Luminaire Tested: 22CZSP-A-31-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586570
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-31-L950-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 3000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

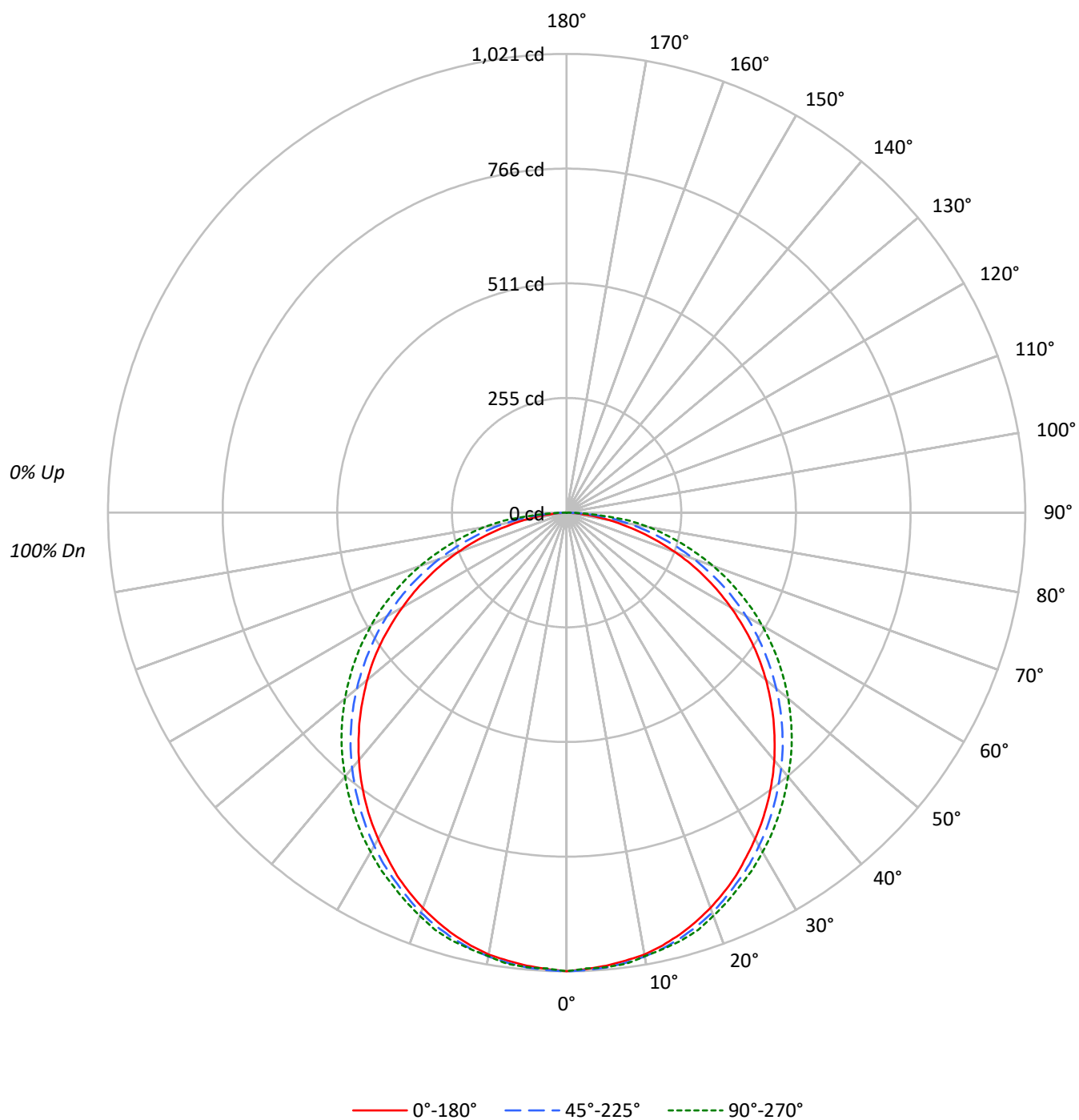
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2980.0 lumens
Efficiency: N/A
Efficacy: 141.9 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
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°	3196	3196	3196
5°	3182	3194	3192
10°	3175	3189	3187
15°	3152	3178	3197
20°	3120	3157	3183
25°	3082	3124	3163
30°	3033	3097	3154
35°	2990	3067	3145
40°	2940	3036	3135
45°	2884	3006	3139
50°	2823	2969	3138
55°	2749	2927	3141
60°	2645	2895	3149
65°	2524	2839	3159
70°	2353	2759	3173
75°	2097	2651	3204
80°	1733	2523	3361
85°	1128	2278	2935

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3467 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.5	3.2
10°-20°	276.4	9.3
20°-30°	416.9	14.0
30°-40°	502.1	16.8
40°-50°	524.4	17.6
50°-60°	481.6	16.2
60°-70°	379.3	12.7
70°-80°	232.7	7.8
80°-90°	70.0	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°	789.8	26.5
0°-40°	1292.0	43.4
0°-60°	2297.9	77.1
0°-90°	2980.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2980.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1021	1021	1021	1021	1021	
5°	1012	1014	1016	1019	1016	96
15°	972	974	980	986	986	274
25°	892	894	904	916	916	411
35°	782	786	802	819	823	489
45°	651	658	679	702	709	502
55°	504	513	536	566	575	449
65°	341	352	383	415	426	337
75°	173	187	219	254	265	184
85°	31	43	63	80	82	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1020.7	1020.7	1020.7	1020.7	1020.7
2.5°	1016.8	1018.8	1019.4	1020.1	1015.5
5°	1012.2	1013.5	1016.2	1019.4	1015.5
7.5°	1005.7	1007.0	1010.3	1014.8	1012.9
10°	998.5	999.2	1003.1	1006.3	1002.4
12.5°	986.7	988.7	993.3	995.9	994.6
15°	972.3	974.3	980.2	986.1	986.1
17.5°	955.3	958.0	965.1	973.0	973.6
20°	936.4	938.3	947.5	955.3	955.3
22.5°	914.8	917.4	926.6	935.1	936.4
25°	891.9	893.9	904.3	915.5	915.5
27.5°	865.1	869.0	882.1	893.2	895.8
30°	838.9	842.2	856.6	870.3	872.3
32.5°	811.5	815.4	830.4	845.5	848.8
35°	782.1	786.0	802.3	818.7	822.6
37.5°	751.3	755.9	772.9	791.9	795.8
40°	719.3	724.5	742.8	763.1	767.0
42.5°	685.3	692.5	712.1	733.0	738.9
45°	651.3	658.5	678.7	702.3	708.8
47.5°	615.3	623.8	644.7	669.6	676.8
50°	579.4	587.9	609.4	636.2	644.1
52.5°	542.7	551.2	573.5	601.6	610.1
55°	503.5	512.7	536.2	566.3	575.4
57.5°	463.0	474.7	499.6	530.3	539.5
60°	422.4	434.2	462.3	492.4	502.8
62.5°	382.5	393.6	422.4	454.5	465.6
65°	340.7	352.4	383.2	415.2	426.3
67.5°	299.5	311.3	342.0	375.3	387.1
70°	257.0	270.1	301.4	334.8	346.6
72.5°	214.5	228.2	260.3	294.3	305.4
75°	173.3	187.0	219.1	253.7	264.8
77.5°	132.7	147.8	179.2	214.5	224.9
80°	96.1	110.5	139.9	174.6	186.4
82.5°	61.5	73.9	103.3	136.0	144.5
85°	31.4	43.2	63.4	80.4	81.7
87.5°	9.8	13.7	20.9	31.4	32.0
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	15.51	17.18	15.88	17.49	17.81	16.35	18.01	16.71	18.32	18.64
	3H	17.27	18.78	17.65	19.10	19.46	18.46	19.97	18.84	20.30	20.65
	4H	17.89	19.31	18.29	19.66	20.03	19.35	20.77	19.75	21.12	21.49
	6H	18.30	19.62	18.71	19.98	20.37	20.13	21.45	20.54	21.82	22.21
	8H	18.41	19.67	18.83	20.06	20.46	20.45	21.71	20.88	22.10	22.50
	12H	18.46	19.67	18.89	20.05	20.48	20.66	21.87	21.09	22.26	22.68
4H	2H	16.29	17.71	16.68	18.06	18.43	16.93	18.36	17.33	18.70	19.08
	3H	18.26	19.46	18.67	19.86	20.26	19.29	20.49	19.70	20.88	21.28
	4H	19.00	20.09	19.43	20.50	20.93	20.34	21.43	20.77	21.84	22.27
	6H	19.53	20.48	19.98	20.92	21.38	21.29	22.25	21.75	22.68	23.14
	8H	19.68	20.57	20.13	21.01	21.47	21.69	22.58	22.15	23.02	23.49
	12H	19.76	20.56	20.24	21.04	21.51	21.97	22.77	22.45	23.24	23.71
8H	4H	19.46	20.35	19.92	20.79	21.26	20.63	21.52	21.09	21.96	22.43
	6H	20.12	20.87	20.61	21.35	21.83	21.74	22.49	22.23	22.97	23.45
	8H	20.33	21.00	20.84	21.51	21.99	22.25	22.92	22.76	23.43	23.91
	12H	20.47	21.06	20.98	21.55	22.11	22.64	23.23	23.14	23.72	24.28
12H	4H	19.55	20.35	20.03	20.83	21.30	20.65	21.46	21.13	21.93	22.40
	6H	20.25	20.92	20.76	21.43	21.91	21.79	22.46	22.30	22.96	23.45
	8H	20.53	21.12	21.04	21.61	22.17	22.37	22.96	22.87	23.45	24.01