

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: P1587607

Luminaire Tested: 22CZSP-SB-31-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587607
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-31-L940
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 3000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

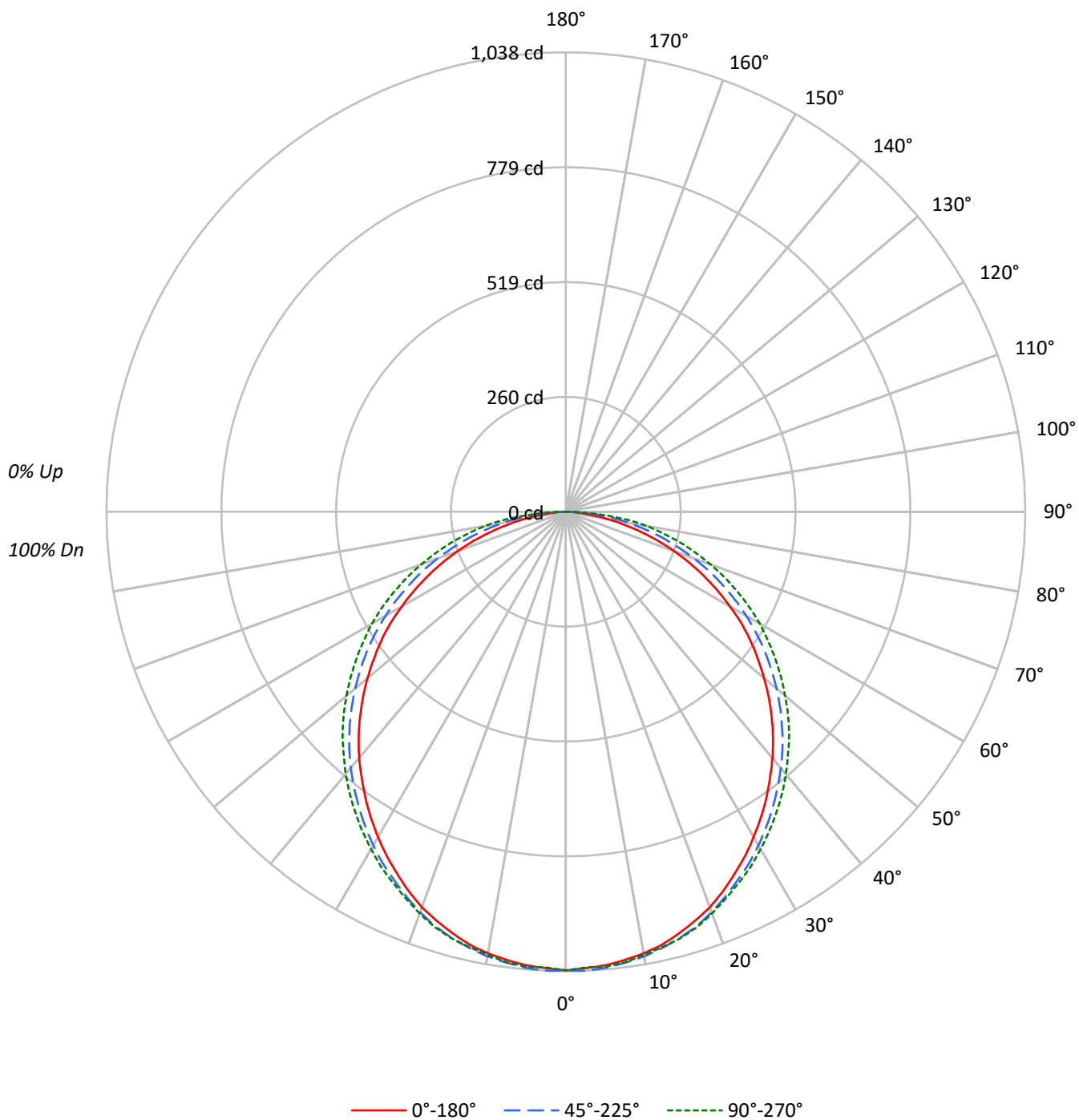
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3024.0 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
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
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	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	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°	3245	3245	3245
5°	3233	3251	3243
10°	3222	3244	3232
15°	3197	3230	3235
20°	3169	3208	3218
25°	3118	3173	3195
30°	3069	3147	3182
35°	3019	3117	3171
40°	2969	3090	3163
45°	2913	3061	3160
50°	2850	3028	3152
55°	2785	2994	3152
60°	2682	2950	3171
65°	2556	2893	3173
70°	2385	2813	3181
75°	2122	2710	3236
80°	1742	2597	3358
85°	1150	2436	3036

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3440 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	3.2
10°-20°	280.6	9.3
20°-30°	422.9	14.0
30°-40°	509.3	16.8
40°-50°	532.0	17.6
50°-60°	488.8	16.2
60°-70°	384.9	12.7
70°-80°	236.0	7.8
80°-90°	71.5	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°	801.5	26.5
0°-40°	1310.7	43.3
0°-60°	2331.5	77.1
0°-90°	3024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3024.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1036	1036	1036	1036	1036	
5°	1028	1030	1034	1033	1032	98
15°	986	990	996	1000	998	278
25°	902	908	918	928	925	416
35°	790	800	815	830	830	494
45°	658	672	691	710	714	507
55°	510	525	548	572	577	455
65°	345	363	390	417	428	341
75°	175	196	224	251	268	186
85°	32	47	68	76	84	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1036.2	1036.2	1036.2	1036.2	1036.2
2.5°	1032.4	1034.9	1038.1	1033.0	1030.4
5°	1028.5	1030.4	1034.3	1033.0	1031.7
7.5°	1021.5	1022.8	1027.9	1027.9	1026.6
10°	1013.2	1015.7	1020.2	1019.6	1016.4
12.5°	1002.3	1004.2	1009.3	1009.3	1007.4
15°	986.3	990.1	996.5	1000.4	997.8
17.5°	969.6	973.5	981.8	985.6	984.4
20°	951.1	954.3	962.6	968.4	965.8
22.5°	928.0	931.9	941.5	947.9	945.3
25°	902.4	908.2	918.4	928.0	924.8
27.5°	876.8	883.2	896.0	905.6	904.4
30°	848.7	857.0	870.4	882.6	880.0
32.5°	819.9	829.5	843.6	856.4	855.7
35°	789.8	800.0	815.4	830.1	829.5
37.5°	757.8	770.0	786.0	802.0	802.6
40°	726.4	738.0	755.9	773.2	773.8
42.5°	693.1	705.3	724.5	742.4	743.1
45°	657.9	672.0	691.2	710.4	713.6
47.5°	622.1	636.8	656.7	677.1	681.0
50°	585.0	600.3	621.5	643.2	647.1
52.5°	547.2	563.2	585.0	606.7	612.5
55°	510.1	524.8	548.5	572.2	577.3
57.5°	471.1	484.5	510.1	535.1	541.5
60°	428.2	444.8	471.1	496.0	506.3
62.5°	386.6	404.5	431.4	456.3	467.9
65°	345.0	362.9	390.4	416.7	428.2
67.5°	302.7	321.3	350.7	375.7	388.5
70°	260.5	279.1	307.2	334.1	347.5
72.5°	218.2	238.1	265.6	293.1	306.6
75°	175.4	195.8	224.0	250.9	267.5
77.5°	135.0	154.9	183.0	210.6	224.6
80°	96.6	116.5	144.0	171.5	186.2
82.5°	61.4	80.0	106.9	129.9	143.4
85°	32.0	47.4	67.8	75.5	84.5
87.5°	9.6	18.6	26.2	29.4	36.5
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	15.60	17.27	15.97	17.58	17.89	16.35	18.01	16.71	18.33	18.64
	3H	17.37	18.87	17.74	19.20	19.56	18.44	19.95	18.82	20.28	20.64
	4H	17.99	19.41	18.39	19.76	20.13	19.33	20.75	19.73	21.10	21.47
	6H	18.40	19.72	18.81	20.09	20.48	20.10	21.42	20.51	21.78	22.17
	8H	18.51	19.77	18.93	20.16	20.56	20.41	21.67	20.83	22.06	22.46
	12H	18.56	19.77	18.99	20.15	20.58	20.62	21.83	21.05	22.21	22.64
4H	2H	16.37	17.80	16.77	18.14	18.52	16.95	18.38	17.35	18.72	19.10
	3H	18.37	19.56	18.78	19.96	20.36	19.28	20.48	19.69	20.88	21.28
	4H	19.12	20.21	19.55	20.62	21.05	20.32	21.40	20.75	21.81	22.25
	6H	19.66	20.61	20.11	21.05	21.50	21.25	22.20	21.70	22.64	23.09
	8H	19.80	20.70	20.26	21.14	21.60	21.63	22.52	22.09	22.96	23.43
	12H	19.89	20.69	20.37	21.17	21.64	21.91	22.71	22.38	23.18	23.65
8H	4H	19.57	20.46	20.03	20.91	21.37	20.62	21.51	21.07	21.95	22.41
	6H	20.25	20.99	20.74	21.48	21.95	21.70	22.44	22.19	22.93	23.40
	8H	20.47	21.14	20.98	21.64	22.13	22.19	22.86	22.69	23.36	23.85
	12H	20.62	21.21	21.12	21.70	22.26	22.56	23.15	23.07	23.64	24.20
12H	4H	19.66	20.46	20.13	20.93	21.40	20.64	21.45	21.12	21.92	22.39
	6H	20.38	21.05	20.88	21.55	22.04	21.75	22.42	22.26	22.93	23.41
	8H	20.67	21.26	21.17	21.75	22.31	22.31	22.90	22.81	23.39	23.95