

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: P1587603

Luminaire Tested: 22CZSP-SB-31-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587603
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-L930
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 3000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

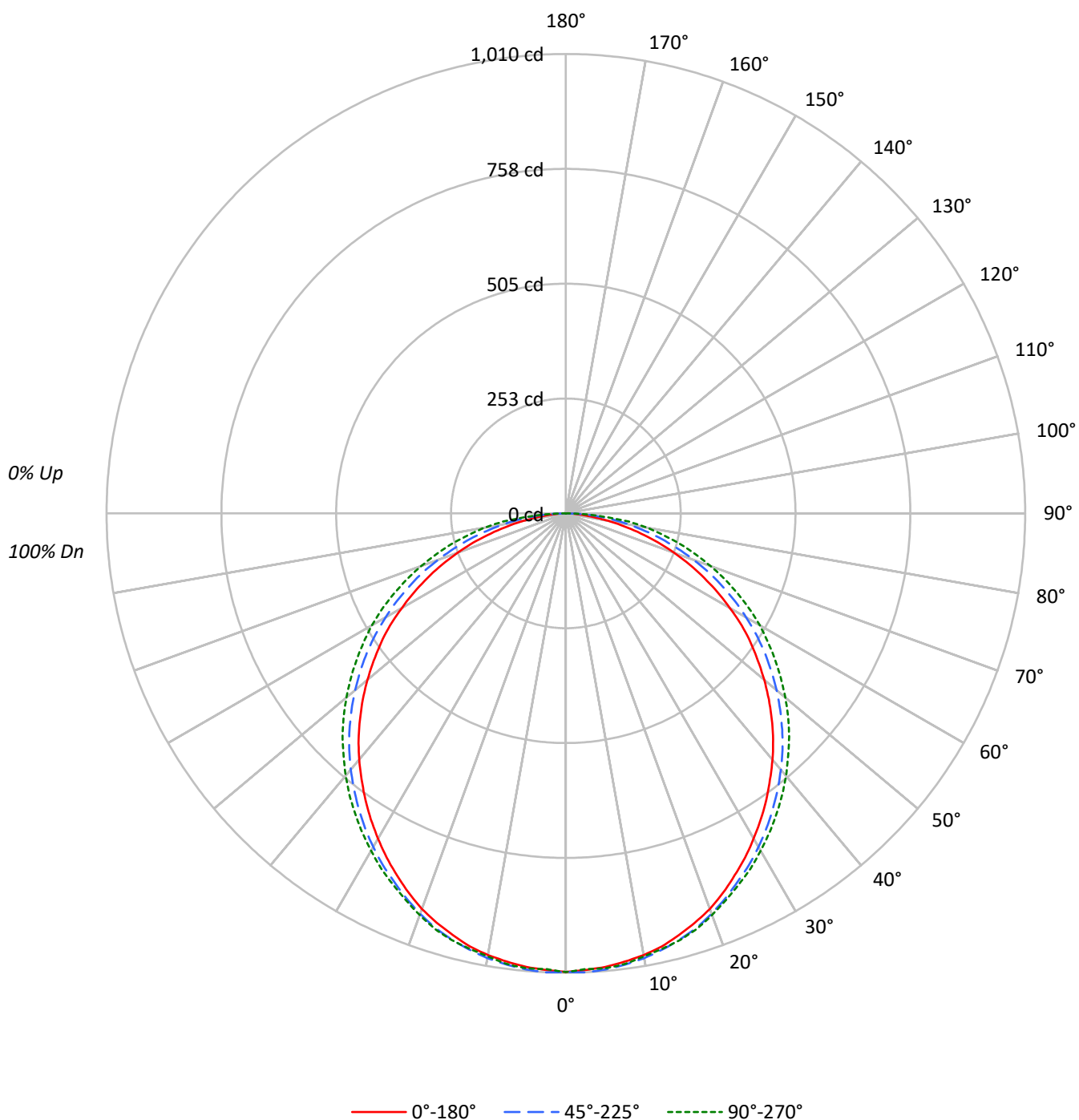
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2943.0 lumens
Efficiency: N/A
Efficacy: 140.1 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°	3158	3158	3158
5°	3146	3164	3156
10°	3135	3157	3145
15°	3112	3144	3148
20°	3084	3122	3132
25°	3035	3088	3110
30°	2986	3063	3097
35°	2938	3034	3086
40°	2890	3007	3078
45°	2835	2979	3075
50°	2773	2946	3068
55°	2710	2914	3067
60°	2610	2871	3086
65°	2487	2816	3087
70°	2321	2737	3096
75°	2065	2637	3150
80°	1697	2526	3269
85°	1117	2371	2953

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3347 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	3.2
10°-20°	273.0	9.3
20°-30°	411.6	14.0
30°-40°	495.6	16.8
40°-50°	517.8	17.6
50°-60°	475.7	16.2
60°-70°	374.6	12.7
70°-80°	229.7	7.8
80°-90°	69.6	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°	780.0	26.5
0°-40°	1275.6	43.3
0°-60°	2269.1	77.1
0°-90°	2943.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2943.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1008	1008	1008	1008	1008	
5°	1001	1003	1007	1005	1004	95
15°	960	964	970	974	971	271
25°	878	884	894	903	900	405
35°	769	779	794	808	807	481
45°	640	654	673	691	694	494
55°	496	511	534	557	562	443
65°	336	353	380	406	417	332
75°	171	191	218	244	260	181
85°	31	46	66	74	82	40
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1008.4	1008.4	1008.4	1008.4	1008.4
2.5°	1004.7	1007.2	1010.3	1005.3	1002.8
5°	1001.0	1002.8	1006.6	1005.3	1004.1
7.5°	994.1	995.4	1000.4	1000.4	999.1
10°	986.0	988.5	992.9	992.3	989.1
12.5°	975.4	977.3	982.3	982.3	980.4
15°	959.9	963.6	969.8	973.6	971.1
17.5°	943.7	947.4	955.5	959.2	958.0
20°	925.6	928.7	936.8	942.4	939.9
22.5°	903.2	906.9	916.3	922.5	920.0
25°	878.3	883.9	893.8	903.2	900.1
27.5°	853.4	859.6	872.0	881.4	880.1
30°	825.9	834.0	847.1	859.0	856.5
32.5°	797.9	807.3	821.0	833.4	832.8
35°	768.6	778.6	793.6	807.9	807.3
37.5°	737.5	749.3	764.9	780.5	781.1
40°	707.0	718.2	735.6	752.4	753.1
42.5°	674.6	686.4	705.1	722.5	723.2
45°	640.3	654.0	672.7	691.4	694.5
47.5°	605.4	619.8	639.1	659.0	662.7
50°	569.3	584.3	604.8	626.0	629.7
52.5°	532.6	548.1	569.3	590.5	596.1
55°	496.4	510.8	533.8	556.9	561.8
57.5°	458.4	471.5	496.4	520.7	527.0
60°	416.7	432.9	458.4	482.7	492.7
62.5°	376.2	393.7	419.8	444.1	455.3
65°	335.7	353.2	380.0	405.5	416.7
67.5°	294.6	312.7	341.3	365.6	378.1
70°	253.5	271.6	299.0	325.1	338.2
72.5°	212.4	231.7	258.5	285.3	298.4
75°	170.7	190.6	218.0	244.2	260.4
77.5°	131.4	150.7	178.1	204.9	218.6
80°	94.1	113.4	140.1	166.9	181.3
82.5°	59.8	77.9	104.0	126.4	139.5
85°	31.1	46.1	66.0	73.5	82.2
87.5°	9.3	18.1	25.5	28.7	35.5
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	15.51	17.17	15.87	17.49	17.80	16.25	17.92	16.62	18.23	18.55
	3H	17.27	18.78	17.65	19.10	19.46	18.35	19.86	18.73	20.18	20.54
	4H	17.90	19.32	18.29	19.67	20.04	19.23	20.66	19.63	21.00	21.38
	6H	18.31	19.63	18.72	19.99	20.38	20.00	21.32	20.41	21.69	22.08
	8H	18.41	19.68	18.84	20.07	20.46	20.31	21.58	20.74	21.96	22.36
	12H	18.47	19.68	18.89	20.06	20.49	20.53	21.74	20.95	22.12	22.55
4H	2H	16.28	17.70	16.68	18.05	18.42	16.86	18.28	17.26	18.63	19.00
	3H	18.27	19.47	18.68	19.87	20.27	19.19	20.38	19.60	20.78	21.18
	4H	19.03	20.11	19.46	20.52	20.96	20.22	21.31	20.65	21.72	22.16
	6H	19.56	20.51	20.01	20.95	21.41	21.15	22.10	21.60	22.54	23.00
	8H	19.71	20.60	20.17	21.04	21.51	21.54	22.43	21.99	22.87	23.33
	12H	19.80	20.60	20.27	21.07	21.54	21.81	22.62	22.29	23.09	23.56
8H	4H	19.48	20.37	19.94	20.81	21.28	20.52	21.41	20.98	21.86	22.32
	6H	20.16	20.90	20.65	21.39	21.86	21.61	22.35	22.10	22.84	23.31
	8H	20.38	21.05	20.88	21.55	22.03	22.09	22.76	22.60	23.27	23.75
	12H	20.52	21.12	21.03	21.61	22.16	22.47	23.06	22.97	23.55	24.11
12H	4H	19.56	20.37	20.04	20.84	21.31	20.55	21.35	21.03	21.83	22.30
	6H	20.28	20.95	20.79	21.46	21.94	21.66	22.33	22.16	22.83	23.32
	8H	20.57	21.17	21.08	21.66	22.22	22.21	22.80	22.72	23.29	23.85