

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: P1587605

Luminaire Tested: 22CZSP-SB-31-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587605
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-L935
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 3000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

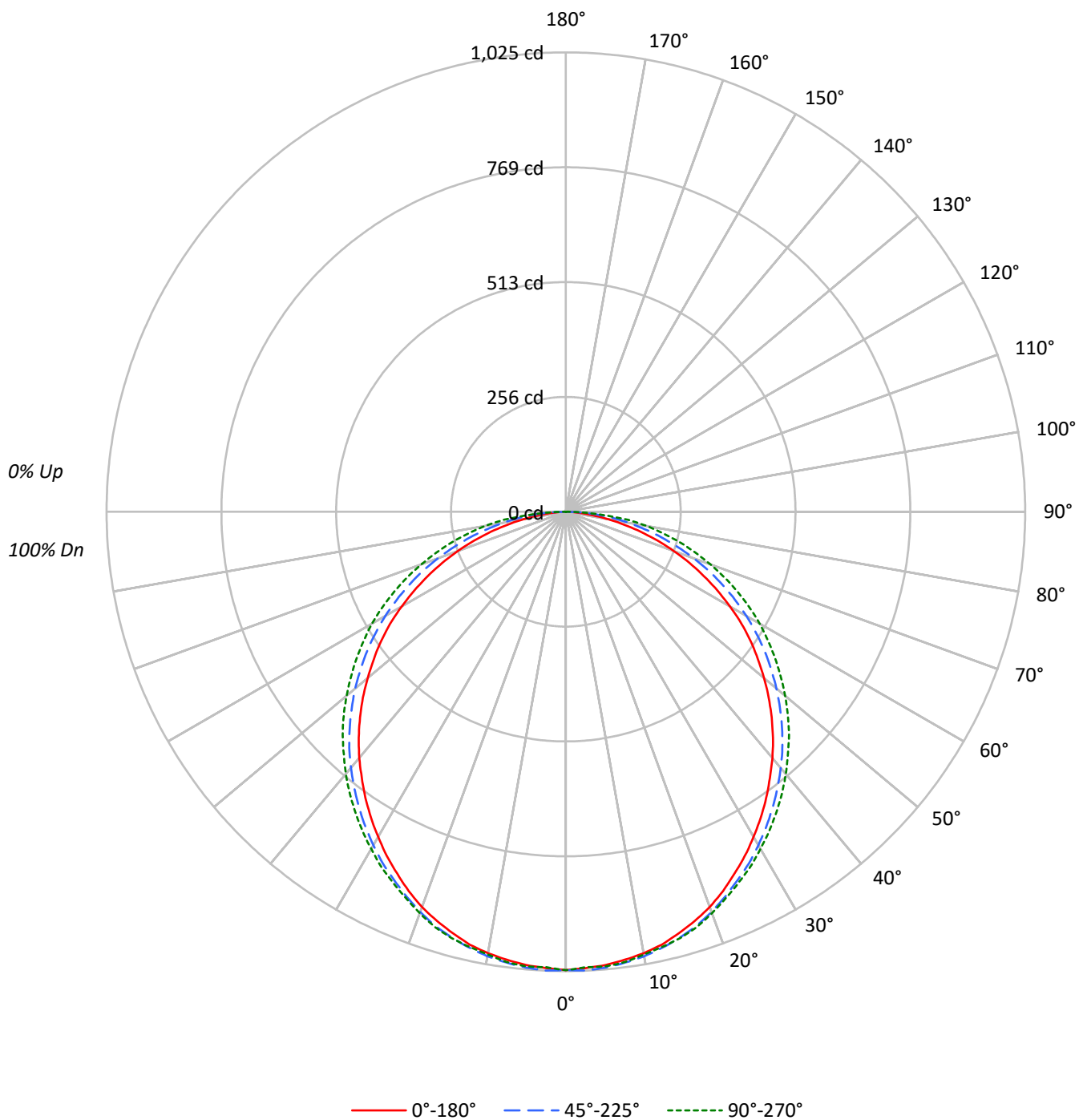
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2985.0 lumens
Efficiency: N/A
Efficacy: 142.1 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°	3203	3203	3203
5°	3191	3209	3201
10°	3180	3202	3190
15°	3156	3189	3193
20°	3128	3166	3177
25°	3078	3132	3154
30°	3029	3107	3141
35°	2980	3077	3130
40°	2931	3050	3122
45°	2876	3021	3119
50°	2813	2989	3111
55°	2749	2956	3111
60°	2647	2912	3129
65°	2523	2856	3132
70°	2354	2777	3141
75°	2094	2675	3195
80°	1720	2562	3314
85°	1135	2407	2996

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3395 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	3.2
10°-20°	276.9	9.3
20°-30°	417.4	14.0
30°-40°	502.7	16.8
40°-50°	525.2	17.6
50°-60°	482.5	16.2
60°-70°	380.0	12.7
70°-80°	233.0	7.8
80°-90°	70.6	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°	791.1	26.5
0°-40°	1293.8	43.3
0°-60°	2301.5	77.1
0°-90°	2985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2985.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1023	1023	1023	1023	1023	
5°	1015	1017	1021	1020	1018	96
15°	974	977	984	988	985	275
25°	891	896	907	916	913	411
35°	780	790	805	819	819	488
45°	650	663	682	701	704	501
55°	504	518	541	565	570	449
65°	340	358	385	411	423	337
75°	173	193	221	248	264	184
85°	32	47	67	74	83	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1022.8	1022.8	1022.8	1022.8	1022.8
2.5°	1019.0	1021.6	1024.7	1019.7	1017.2
5°	1015.3	1017.2	1020.9	1019.7	1018.4
7.5°	1008.3	1009.6	1014.6	1014.6	1013.4
10°	1000.1	1002.6	1007.0	1006.4	1003.3
12.5°	989.4	991.3	996.3	996.3	994.4
15°	973.6	977.4	983.7	987.5	984.9
17.5°	957.1	960.9	969.1	972.9	971.7
20°	938.8	942.0	950.2	955.9	953.3
22.5°	916.1	919.9	929.3	935.7	933.1
25°	890.8	896.5	906.6	916.1	912.9
27.5°	865.5	871.8	884.5	894.0	892.7
30°	837.7	845.9	859.2	871.2	868.7
32.5°	809.3	818.8	832.7	845.3	844.7
35°	779.6	789.7	804.9	819.4	818.8
37.5°	748.0	760.0	775.8	791.6	792.2
40°	717.1	728.4	746.1	763.2	763.8
42.5°	684.2	696.2	715.2	732.9	733.5
45°	649.5	663.4	682.3	701.3	704.4
47.5°	614.1	628.6	648.2	668.4	672.2
50°	577.4	592.6	613.5	634.9	638.7
52.5°	540.2	556.0	577.4	598.9	604.6
55°	503.5	518.1	541.4	564.8	569.9
57.5°	465.0	478.3	503.5	528.2	534.5
60°	422.7	439.1	465.0	489.6	499.7
62.5°	381.6	399.3	425.8	450.5	461.8
65°	340.5	358.2	385.4	411.3	422.7
67.5°	298.8	317.1	346.2	370.9	383.5
70°	257.1	275.5	303.3	329.8	343.1
72.5°	215.4	235.0	262.2	289.4	302.6
75°	173.1	193.3	221.1	247.7	264.1
77.5°	133.3	152.9	180.7	207.9	221.8
80°	95.4	115.0	142.1	169.3	183.8
82.5°	60.7	79.0	105.5	128.2	141.5
85°	31.6	46.8	67.0	74.5	83.4
87.5°	9.5	18.3	25.9	29.1	36.0
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	15.56	17.22	15.92	17.54	17.85	16.30	17.97	16.67	18.28	18.60
	3H	17.32	18.83	17.70	19.15	19.51	18.40	19.91	18.78	20.23	20.59
	4H	17.94	19.37	18.34	19.71	20.09	19.28	20.71	19.68	21.05	21.43
	6H	18.36	19.68	18.77	20.04	20.43	20.05	21.37	20.46	21.74	22.13
	8H	18.46	19.73	18.89	20.11	20.51	20.36	21.63	20.79	22.01	22.41
	12H	18.52	19.73	18.94	20.11	20.54	20.58	21.79	21.00	22.17	22.60
4H	2H	16.33	17.75	16.73	18.10	18.47	16.91	18.33	17.31	18.68	19.05
	3H	18.32	19.52	18.73	19.92	20.32	19.24	20.43	19.65	20.83	21.23
	4H	19.08	20.16	19.51	20.57	21.01	20.27	21.36	20.70	21.77	22.20
	6H	19.61	20.56	20.06	21.00	21.46	21.20	22.15	21.65	22.59	23.05
	8H	19.76	20.65	20.22	21.09	21.56	21.59	22.48	22.04	22.92	23.38
	12H	19.85	20.65	20.32	21.12	21.59	21.86	22.66	22.34	23.14	23.61
8H	4H	19.53	20.42	19.99	20.86	21.33	20.57	21.46	21.03	21.90	22.37
	6H	20.20	20.95	20.70	21.44	21.91	21.65	22.40	22.15	22.89	23.36
	8H	20.43	21.09	20.93	21.60	22.08	22.14	22.81	22.65	23.32	23.80
	12H	20.57	21.17	21.08	21.66	22.21	22.52	23.11	23.02	23.60	24.16
12H	4H	19.61	20.41	20.09	20.89	21.36	20.60	21.40	21.08	21.88	22.35
	6H	20.33	21.00	20.84	21.51	21.99	21.71	22.38	22.21	22.88	23.37
	8H	20.62	21.22	21.13	21.71	22.26	22.26	22.85	22.77	23.34	23.90