

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: P1587595

Luminaire Tested: 22CZSP-SB-31-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587595
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-L835
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 3000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

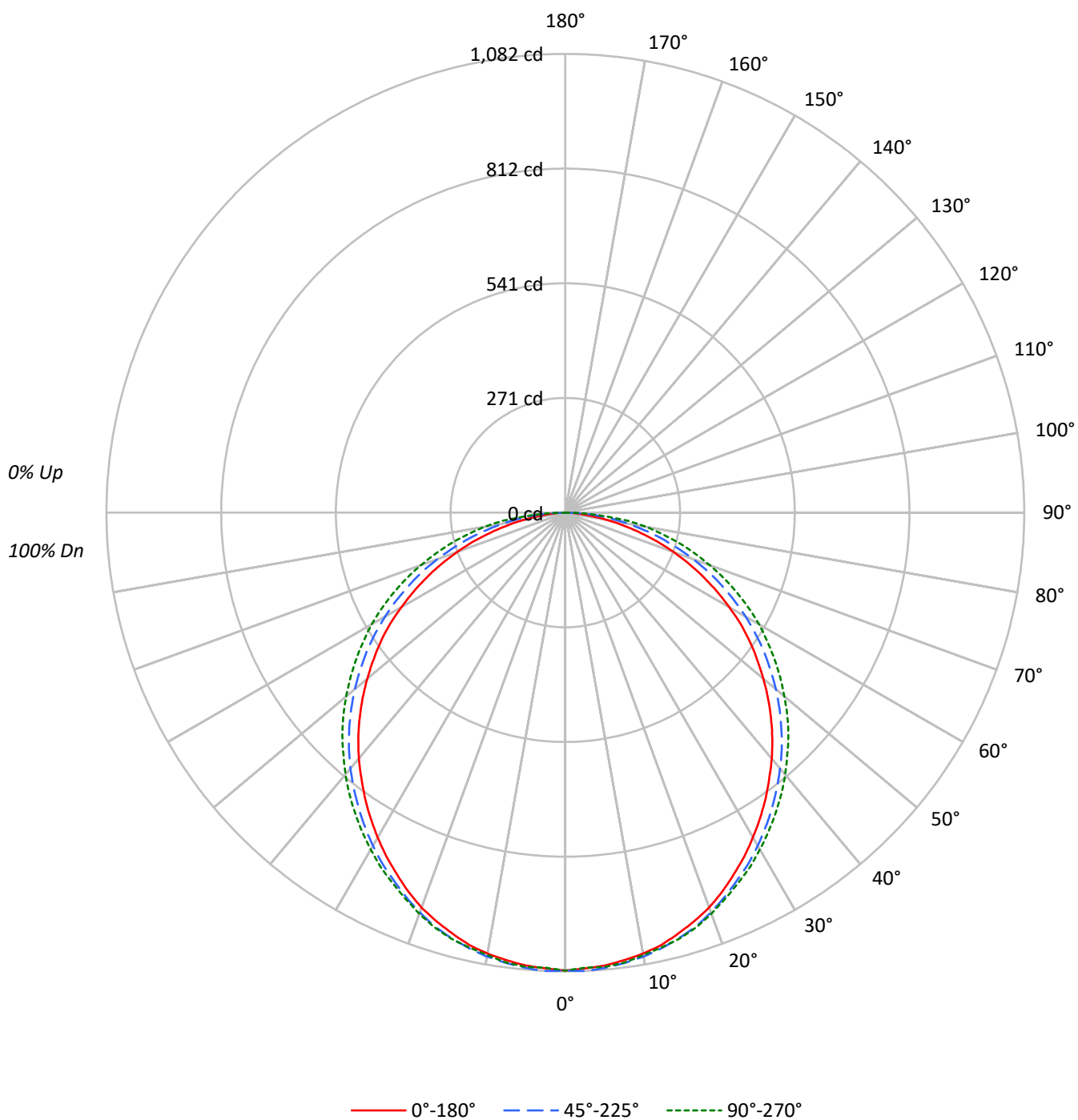
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3152.0 lumens
Efficiency: N/A
Efficacy: 150.1 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			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	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°	3382	3382	3382
5°	3370	3389	3380
10°	3358	3381	3369
15°	3333	3367	3371
20°	3303	3343	3355
25°	3250	3308	3331
30°	3198	3281	3317
35°	3147	3249	3305
40°	3095	3221	3297
45°	3037	3191	3294
50°	2970	3156	3286
55°	2903	3121	3285
60°	2795	3075	3305
65°	2664	3015	3307
70°	2486	2932	3316
75°	2212	2825	3374
80°	1816	2707	3500
85°	1200	2540	3165

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3584 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	3.2
10°-20°	292.4	9.3
20°-30°	440.8	14.0
30°-40°	530.8	16.8
40°-50°	554.6	17.6
50°-60°	509.5	16.2
60°-70°	401.2	12.7
70°-80°	246.0	7.8
80°-90°	74.6	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°	835.4	26.5
0°-40°	1366.2	43.3
0°-60°	2430.2	77.1
0°-90°	3152.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3152.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1080	1080	1080	1080	1080	
5°	1072	1074	1078	1077	1075	102
15°	1028	1032	1039	1043	1040	290
25°	941	947	957	967	964	434
35°	823	834	850	865	865	515
45°	686	700	720	740	744	529
55°	532	547	572	596	602	474
65°	360	378	407	434	446	355
75°	183	204	234	262	279	194
85°	33	49	71	79	88	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1080.1	1080.1	1080.1	1080.1	1080.1
2.5°	1076.1	1078.7	1082.1	1076.7	1074.1
5°	1072.1	1074.1	1078.1	1076.7	1075.4
7.5°	1064.7	1066.1	1071.4	1071.4	1070.1
10°	1056.0	1058.7	1063.4	1062.7	1059.4
12.5°	1044.7	1046.7	1052.0	1052.0	1050.0
15°	1028.0	1032.0	1038.7	1042.7	1040.0
17.5°	1010.7	1014.7	1023.4	1027.4	1026.0
20°	991.3	994.7	1003.3	1009.3	1006.7
22.5°	967.3	971.3	981.3	988.0	985.3
25°	940.6	946.6	957.3	967.3	964.0
27.5°	914.0	920.6	934.0	944.0	942.6
30°	884.6	893.3	907.3	920.0	917.3
32.5°	854.6	864.6	879.3	892.6	891.9
35°	823.2	833.9	849.9	865.3	864.6
37.5°	789.9	802.5	819.2	835.9	836.6
40°	757.2	769.2	787.9	805.9	806.5
42.5°	722.5	735.2	755.2	773.9	774.5
45°	685.8	700.5	720.5	740.5	743.8
47.5°	648.4	663.8	684.5	705.8	709.8
50°	609.7	625.8	647.8	670.5	674.5
52.5°	570.4	587.1	609.7	632.4	638.4
55°	531.7	547.0	571.7	596.4	601.7
57.5°	491.0	505.0	531.7	557.7	564.4
60°	446.3	463.6	491.0	517.0	527.7
62.5°	402.9	421.6	449.6	475.7	487.7
65°	359.6	378.3	406.9	434.3	446.3
67.5°	315.5	334.9	365.6	391.6	404.9
70°	271.5	290.9	320.2	348.2	362.2
72.5°	227.5	248.2	276.9	305.5	319.5
75°	182.8	204.1	233.5	261.5	278.9
77.5°	140.8	161.4	190.8	219.5	234.2
80°	100.7	121.4	150.1	178.8	194.1
82.5°	64.0	83.4	111.4	135.4	149.4
85°	33.4	49.4	70.7	78.7	88.1
87.5°	10.0	19.3	27.4	30.7	38.0
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	15.75	17.41	16.11	17.72	18.04	16.49	18.16	16.86	18.47	18.78
	3H	17.51	19.02	17.89	19.34	19.70	18.59	20.10	18.96	20.42	20.78
	4H	18.13	19.56	18.53	19.90	20.28	19.47	20.90	19.87	21.24	21.62
	6H	18.55	19.87	18.96	20.23	20.62	20.24	21.56	20.65	21.92	22.31
	8H	18.65	19.92	19.08	20.30	20.70	20.55	21.81	20.98	22.20	22.60
	12H	18.70	19.91	19.13	20.30	20.72	20.76	21.97	21.19	22.36	22.78
4H	2H	16.52	17.94	16.91	18.29	18.66	17.10	18.52	17.49	18.87	19.24
	3H	18.51	19.71	18.92	20.10	20.50	19.42	20.62	19.83	21.02	21.42
	4H	19.26	20.35	19.69	20.76	21.20	20.46	21.55	20.89	21.96	22.39
	6H	19.80	20.75	20.25	21.19	21.65	21.39	22.34	21.84	22.78	23.24
	8H	19.95	20.84	20.41	21.28	21.75	21.77	22.67	22.23	23.11	23.57
	12H	20.03	20.84	20.51	21.31	21.78	22.05	22.85	22.53	23.33	23.80
8H	4H	19.72	20.61	20.17	21.05	21.51	20.76	21.65	21.22	22.09	22.56
	6H	20.39	21.14	20.89	21.62	22.10	21.84	22.59	22.34	23.07	23.55
	8H	20.61	21.28	21.12	21.79	22.27	22.33	23.00	22.84	23.50	23.99
	12H	20.76	21.35	21.27	21.84	22.40	22.71	23.30	23.21	23.79	24.35
12H	4H	19.80	20.60	20.28	21.08	21.55	20.79	21.59	21.27	22.07	22.53
	6H	20.52	21.19	21.03	21.70	22.18	21.90	22.57	22.40	23.07	23.56
	8H	20.81	21.40	21.32	21.89	22.45	22.45	23.04	22.95	23.53	24.09