

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: P1587632

Luminaire Tested: 22CZSP-SB-35-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-35-L830-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 3500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

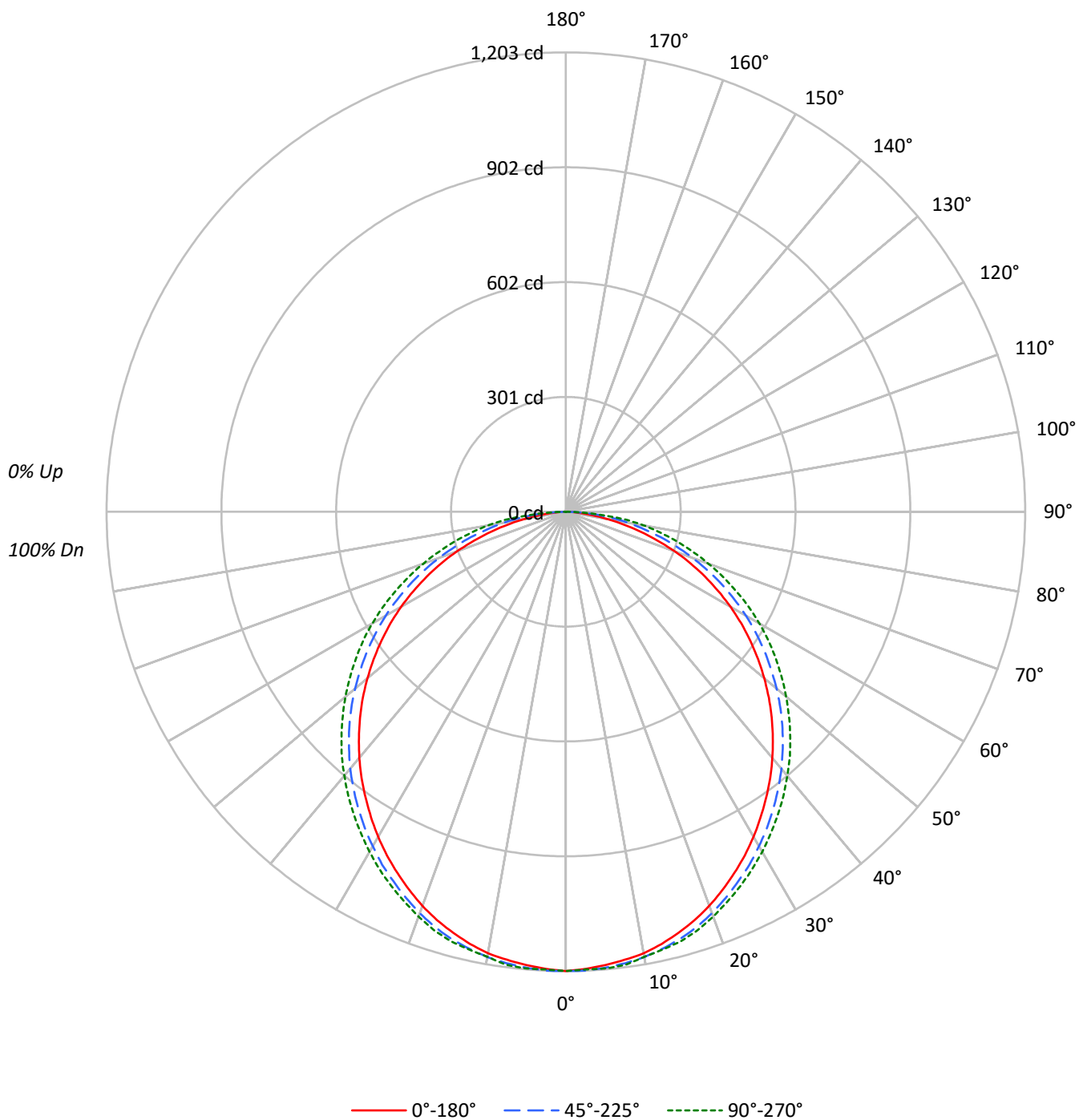
Lumens per Lamp: N/A
Luminaire Lumens: 3499.0 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.7
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

TEST NUMBER: P1587632

CATALOG NUMBER: 22CZSP-SB-35-L830-S

Luminous Intensity Polar Plot



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CATALOG NUMBER: 22CZSP-SB-35-L830-S

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	94	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	66	61		69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53		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	45	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3766	3766	3766
5°	3745	3767	3774
10°	3734	3765	3762
15°	3699	3753	3775
20°	3660	3727	3760
25°	3607	3690	3737
30°	3554	3658	3718
35°	3496	3623	3700
40°	3440	3591	3689
45°	3377	3553	3680
50°	3304	3509	3671
55°	3222	3464	3665
60°	3121	3413	3667
65°	2978	3341	3648
70°	2784	3239	3638
75°	2468	3114	3651
80°	2009	2959	3760
85°	1297	2731	3244

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3810 cd/sqm

TEST NUMBER: P1587632

CATALOG NUMBER: 22CZSP-SB-35-L830-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	3.3
10°-20°	326.0	9.3
20°-30°	491.5	14.0
30°-40°	591.4	16.9
40°-50°	616.8	17.6
50°-60°	565.4	16.2
60°-70°	444.0	12.7
70°-80°	270.2	7.7
80°-90°	79.9	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°	931.3	26.6
0°-40°	1522.6	43.5
0°-60°	2704.8	77.3
0°-90°	3499.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3499.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1203	1203	1203	1203	1203	
5°	1192	1199	1198	1197	1201	113
15°	1141	1152	1158	1159	1164	322
25°	1044	1058	1068	1075	1082	481
35°	914	929	948	961	968	572
45°	762	778	802	821	831	588
55°	590	605	634	660	671	527
65°	402	417	451	481	492	398
75°	204	223	257	288	302	216
85°	36	51	76	85	90	47
90°	0	0	0	0	0	

TEST NUMBER: P1587632

CATALOG NUMBER: 22CZSP-SB-35-L830-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1202.8	1202.8	1202.8	1202.8	1202.8
2.5°	1198.3	1204.3	1202.8	1197.6	1199.8
5°	1191.5	1199.1	1198.3	1196.8	1200.6
7.5°	1183.3	1191.5	1192.3	1192.3	1196.8
10°	1174.2	1182.5	1184.0	1181.8	1183.3
12.5°	1159.2	1169.0	1172.0	1172.0	1174.2
15°	1141.1	1152.4	1157.7	1159.2	1164.4
17.5°	1121.5	1133.6	1140.4	1144.1	1148.6
20°	1098.2	1111.0	1118.5	1123.0	1128.3
22.5°	1071.9	1086.2	1094.4	1099.0	1105.0
25°	1044.0	1058.3	1068.1	1074.9	1081.6
27.5°	1014.7	1028.2	1041.8	1050.0	1056.1
30°	983.0	997.3	1011.6	1022.2	1028.2
32.5°	949.2	964.2	980.8	992.1	998.8
35°	914.5	928.8	947.7	961.2	968.0
37.5°	879.2	894.2	913.8	928.1	936.4
40°	841.5	857.3	878.4	894.2	902.5
42.5°	802.4	817.4	840.8	858.8	868.6
45°	762.5	778.3	802.4	821.2	831.0
47.5°	721.1	736.2	762.5	784.3	792.6
50°	678.2	692.5	720.3	743.7	753.5
52.5°	634.5	649.6	677.4	702.3	712.8
55°	590.1	605.2	634.5	660.1	671.4
57.5°	545.0	560.0	590.1	616.5	630.0
60°	498.3	513.4	545.0	572.1	585.6
62.5°	450.1	465.9	498.3	526.1	540.4
65°	401.9	417.0	450.9	481.0	492.3
67.5°	353.8	368.8	401.9	432.1	445.6
70°	304.1	321.4	353.8	385.4	397.4
72.5°	252.2	271.7	304.1	337.2	349.3
75°	204.0	222.8	257.4	288.3	301.8
77.5°	156.6	176.9	209.3	240.9	254.4
80°	111.4	131.0	164.1	194.2	208.5
82.5°	70.8	88.1	121.2	148.3	158.8
85°	36.1	51.2	76.0	85.1	90.3
87.5°	10.5	18.1	27.1	33.9	37.6
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1587632

CATALOG NUMBER: 22CZSP-SB-35-L830-S

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	16.11	17.77	16.47	18.08	18.40	16.84	18.50	17.21	18.82	19.13
	3H	17.88	19.38	18.25	19.71	20.07	18.92	20.43	19.30	20.75	21.11
	4H	18.49	19.91	18.89	20.26	20.64	19.79	21.21	20.18	21.55	21.93
	6H	18.90	20.22	19.31	20.59	20.98	20.53	21.85	20.94	22.21	22.60
	8H	19.01	20.27	19.43	20.66	21.05	20.83	22.09	21.25	22.47	22.87
	12H	19.06	20.26	19.48	20.64	21.07	21.02	22.23	21.45	22.61	23.04
4H	2H	16.88	18.30	17.27	18.64	19.02	17.45	18.87	17.84	19.21	19.59
	3H	18.87	20.06	19.28	20.46	20.86	19.76	20.96	20.17	21.35	21.75
	4H	19.61	20.69	20.04	21.11	21.54	20.78	21.86	21.21	22.27	22.71
	6H	20.14	21.09	20.59	21.53	21.98	21.68	22.63	22.14	23.07	23.53
	8H	20.28	21.17	20.74	21.61	22.07	22.05	22.94	22.51	23.38	23.85
	12H	20.36	21.16	20.84	21.64	22.10	22.30	23.11	22.78	23.58	24.05
8H	4H	20.05	20.94	20.51	21.39	21.85	21.08	21.97	21.53	22.41	22.87
	6H	20.72	21.46	21.21	21.95	22.42	22.13	22.88	22.63	23.36	23.84
	8H	20.93	21.59	21.43	22.10	22.58	22.61	23.27	23.11	23.78	24.26
	12H	21.06	21.65	21.57	22.14	22.70	22.96	23.55	23.46	24.04	24.60
12H	4H	20.14	20.94	20.61	21.41	21.88	21.10	21.90	21.58	22.38	22.85
	6H	20.84	21.51	21.35	22.01	22.50	22.18	22.85	22.69	23.36	23.84
	8H	21.12	21.71	21.62	22.20	22.76	22.72	23.31	23.23	23.80	24.36