

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: P1587597

Luminaire Tested: 22CZSP-SB-31-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587597
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-L840
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 3000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

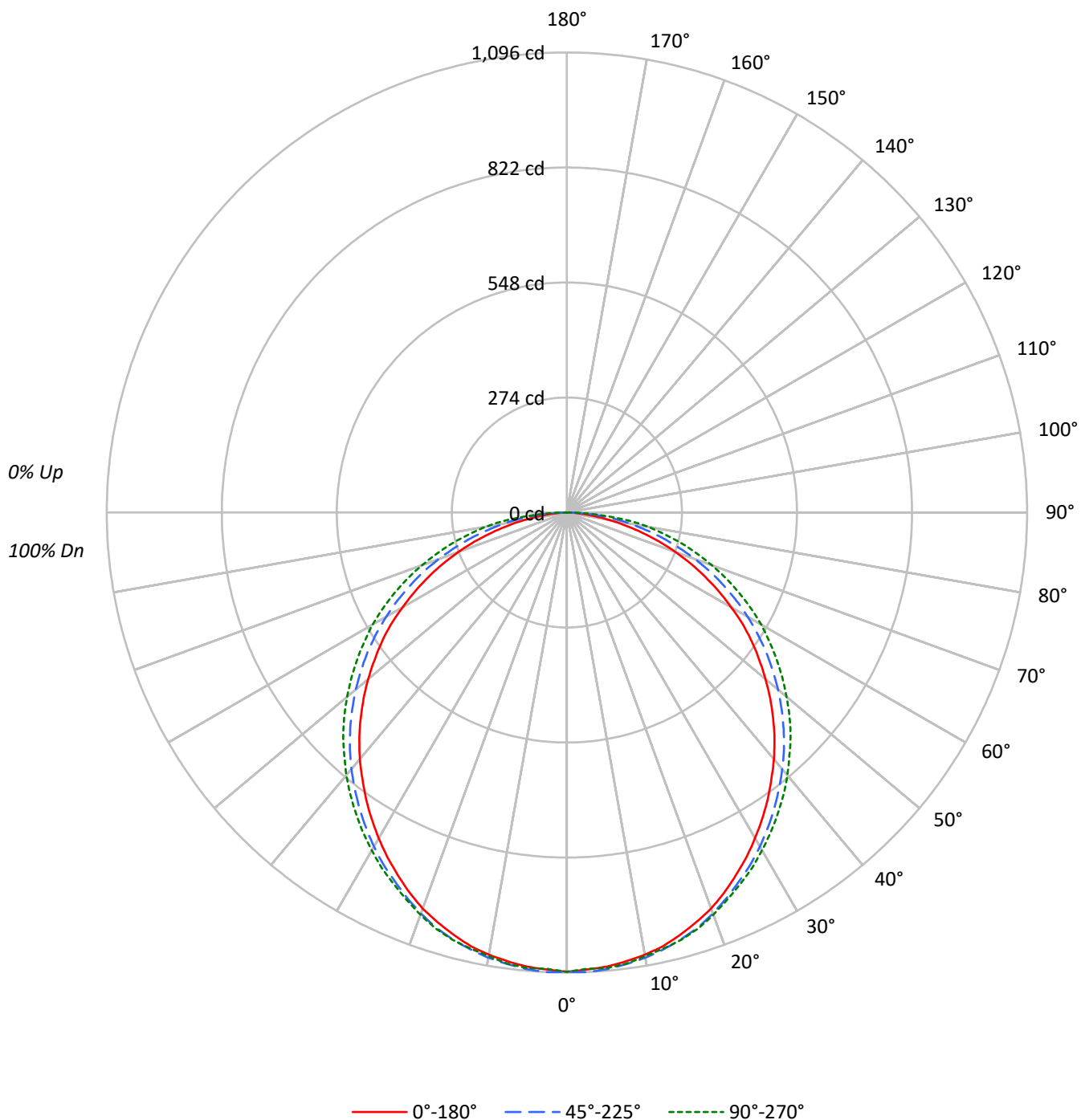
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3193.0 lumens
Efficiency: N/A
Efficacy: 152.0 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

TEST NUMBER: P1587597
CATALOG NUMBER: 22CZSP-SB-31-L840

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°	3426	3426	3426
5°	3414	3433	3424
10°	3402	3425	3412
15°	3376	3411	3416
20°	3346	3387	3398
25°	3292	3351	3374
30°	3240	3323	3360
35°	3188	3291	3348
40°	3135	3262	3340
45°	3076	3232	3337
50°	3009	3197	3328
55°	2940	3162	3328
60°	2831	3115	3348
65°	2699	3054	3350
70°	2518	2970	3360
75°	2241	2861	3418
80°	1839	2743	3547
85°	1214	2572	3205

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3632 cd/sqm

TEST NUMBER: P1587597

CATALOG NUMBER: 22CZSP-SB-31-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.5	3.2
10°-20°	296.2	9.3
20°-30°	446.5	14.0
30°-40°	537.7	16.8
40°-50°	561.8	17.6
50°-60°	516.1	16.2
60°-70°	406.4	12.7
70°-80°	249.2	7.8
80°-90°	75.6	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°	846.3	26.5
0°-40°	1384.0	43.3
0°-60°	2461.9	77.1
0°-90°	3193.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3193.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1094	1094	1094	1094	1094	
5°	1086	1088	1092	1091	1089	103
15°	1041	1046	1052	1056	1054	294
25°	953	959	970	980	976	439
35°	834	845	861	876	876	522
45°	695	710	730	750	754	536
55°	539	554	579	604	610	481
65°	364	383	412	440	452	360
75°	185	207	236	265	282	197
85°	34	50	72	80	89	43
90°	0	0	0	0	0	

TEST NUMBER: P1587597

CATALOG NUMBER: 22CZSP-SB-31-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1094.1	1094.1	1094.1	1094.1	1094.1
2.5°	1090.1	1092.8	1096.1	1090.7	1088.0
5°	1086.0	1088.0	1092.1	1090.7	1089.4
7.5°	1078.6	1079.9	1085.3	1085.3	1084.0
10°	1069.8	1072.5	1077.2	1076.5	1073.2
12.5°	1058.3	1060.3	1065.7	1065.7	1063.7
15°	1041.4	1045.5	1052.2	1056.3	1053.6
17.5°	1023.8	1027.9	1036.7	1040.7	1039.4
20°	1004.2	1007.6	1016.4	1022.5	1019.8
22.5°	979.9	984.0	994.1	1000.9	998.2
25°	952.9	959.0	969.8	979.9	976.5
27.5°	925.8	932.6	946.1	956.3	954.9
30°	896.1	904.9	919.1	931.9	929.2
32.5°	865.7	875.8	890.7	904.2	903.5
35°	833.9	844.7	861.0	876.5	875.8
37.5°	800.1	813.0	829.9	846.8	847.4
40°	767.0	779.2	798.1	816.4	817.0
42.5°	731.9	744.7	765.0	783.9	784.6
45°	694.7	709.6	729.9	750.1	753.5
47.5°	656.9	672.4	693.4	715.0	719.0
50°	617.7	633.9	656.2	679.2	683.2
52.5°	577.8	594.7	617.7	640.7	646.7
55°	538.6	554.2	579.2	604.2	609.6
57.5°	497.4	511.6	538.6	565.0	571.7
60°	452.1	469.7	497.4	523.7	534.6
62.5°	408.2	427.1	455.5	481.8	494.0
65°	364.3	383.2	412.2	439.9	452.1
67.5°	319.7	339.2	370.3	396.7	410.2
70°	275.0	294.6	324.4	352.8	367.0
72.5°	230.4	251.4	280.5	309.5	323.7
75°	185.2	206.8	236.5	264.9	282.5
77.5°	142.6	163.5	193.3	222.3	237.2
80°	102.0	123.0	152.1	181.1	196.7
82.5°	64.9	84.5	112.9	137.2	151.4
85°	33.8	50.0	71.6	79.7	89.2
87.5°	10.1	19.6	27.7	31.1	38.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1587597

CATALOG NUMBER: 22CZSP-SB-31-L840

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	15.79	17.45	16.16	17.77	18.08	16.54	18.20	16.90	18.52	18.83
	3H	17.55	19.06	17.93	19.39	19.75	18.63	20.14	19.01	20.47	20.83
	4H	18.18	19.60	18.58	19.95	20.32	19.52	20.94	19.92	21.29	21.66
	6H	18.59	19.91	19.00	20.28	20.67	20.29	21.61	20.70	21.97	22.36
	8H	18.70	19.96	19.12	20.35	20.75	20.60	21.86	21.02	22.25	22.65
	12H	18.75	19.96	19.18	20.34	20.77	20.81	22.02	21.24	22.40	22.83
4H	2H	16.56	17.98	16.96	18.33	18.71	17.14	18.56	17.54	18.91	19.29
	3H	18.56	19.75	18.96	20.15	20.55	19.47	20.67	19.88	21.06	21.46
	4H	19.31	20.40	19.74	20.81	21.24	20.50	21.59	20.94	22.00	22.44
	6H	19.85	20.80	20.30	21.24	21.69	21.44	22.39	21.89	22.83	23.28
	8H	19.99	20.89	20.45	21.33	21.79	21.82	22.71	22.28	23.15	23.62
	12H	20.08	20.88	20.56	21.36	21.82	22.09	22.90	22.57	23.37	23.84
8H	4H	19.76	20.65	20.22	21.09	21.56	20.80	21.70	21.26	22.14	22.60
	6H	20.44	21.18	20.93	21.67	22.14	21.89	22.63	22.38	23.12	23.59
	8H	20.66	21.33	21.17	21.83	22.32	22.38	23.05	22.88	23.55	24.03
	12H	20.81	21.40	21.31	21.89	22.45	22.75	23.34	23.26	23.83	24.39
12H	4H	19.84	20.65	20.32	21.12	21.59	20.83	21.64	21.31	22.11	22.58
	6H	20.57	21.24	21.07	21.74	22.23	21.94	22.61	22.45	23.12	23.60
	8H	20.86	21.45	21.36	21.94	22.50	22.50	23.09	23.00	23.58	24.14