

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: P1587650

Luminaire Tested: 22CZSP-SB-35-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587650
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-L950-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 3500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

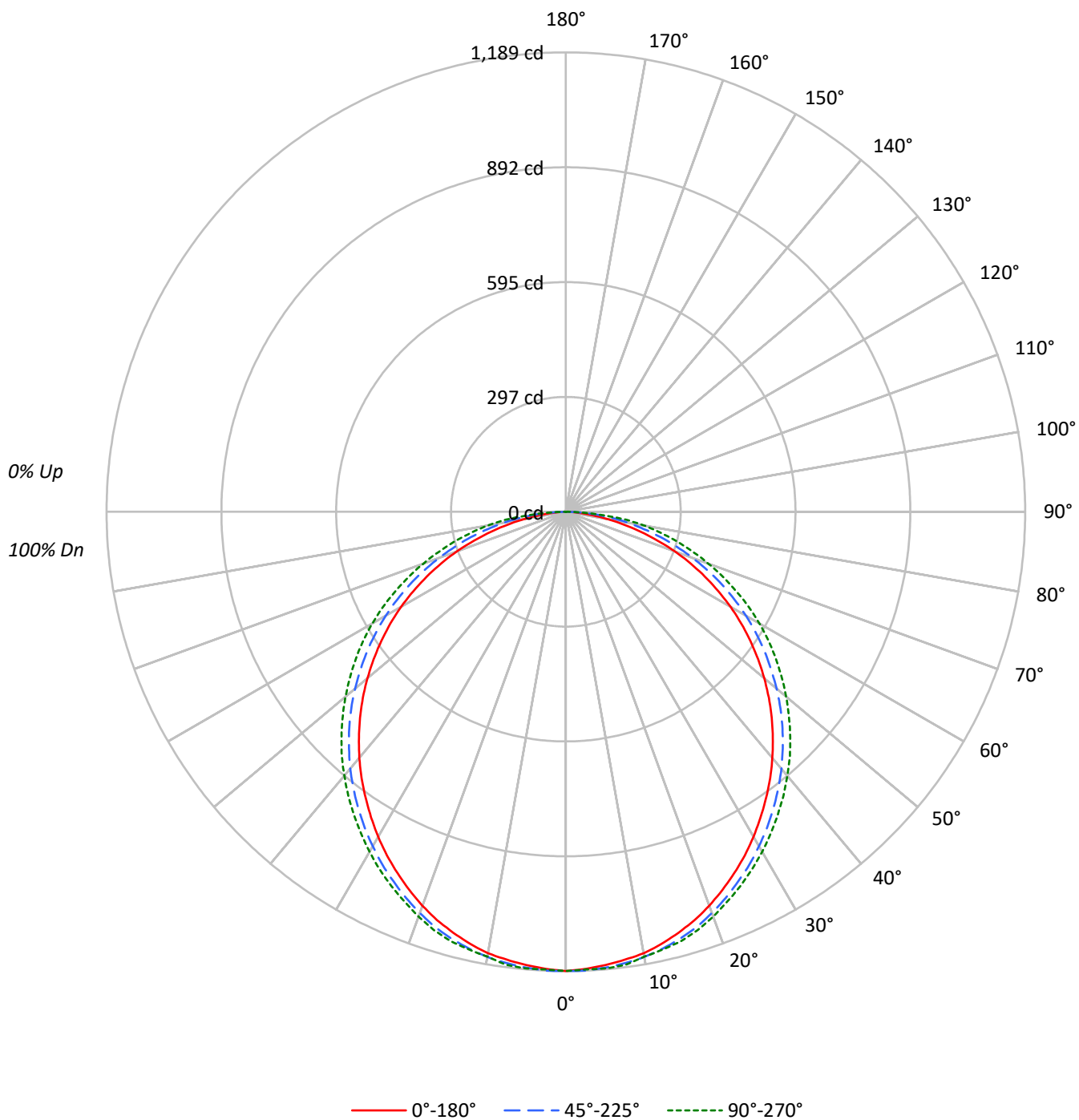
Lumens per Lamp: N/A
Luminaire Lumens: 3458.0 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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

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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	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°	3722	3722	3722
5°	3702	3723	3730
10°	3690	3720	3718
15°	3656	3709	3731
20°	3617	3684	3716
25°	3565	3647	3693
30°	3513	3615	3674
35°	3455	3580	3657
40°	3400	3548	3646
45°	3337	3512	3637
50°	3265	3468	3627
55°	3184	3424	3623
60°	3084	3373	3624
65°	2943	3302	3605
70°	2751	3201	3596
75°	2439	3078	3609
80°	1985	2925	3717
85°	1283	2698	3208

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3766 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	3.3
10°-20°	322.1	9.3
20°-30°	485.7	14.0
30°-40°	584.4	16.9
40°-50°	609.6	17.6
50°-60°	558.8	16.2
60°-70°	438.8	12.7
70°-80°	267.0	7.7
80°-90°	79.0	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°	920.3	26.6
0°-40°	1504.8	43.5
0°-60°	2673.2	77.3
0°-90°	3458.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3458.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1189	1189	1189	1189	1189	
5°	1178	1185	1184	1183	1186	112
15°	1128	1139	1144	1146	1151	318
25°	1032	1046	1056	1062	1069	475
35°	904	918	937	950	957	566
45°	754	769	793	812	821	581
55°	583	598	627	652	664	521
65°	397	412	446	475	486	393
75°	202	220	254	285	298	214
85°	36	51	75	84	89	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1188.7	1188.7	1188.7	1188.7	1188.7
2.5°	1184.3	1190.2	1188.7	1183.5	1185.8
5°	1177.6	1185.0	1184.3	1182.8	1186.5
7.5°	1169.4	1177.6	1178.3	1178.3	1182.8
10°	1160.5	1168.7	1170.1	1167.9	1169.4
12.5°	1145.6	1155.3	1158.2	1158.2	1160.5
15°	1127.7	1138.9	1144.1	1145.6	1150.8
17.5°	1108.4	1120.3	1127.0	1130.7	1135.2
20°	1085.3	1098.0	1105.4	1109.9	1115.1
22.5°	1059.3	1073.4	1081.6	1086.1	1092.0
25°	1031.8	1045.9	1055.6	1062.3	1069.0
27.5°	1002.8	1016.2	1029.5	1037.7	1043.7
30°	971.5	985.7	999.8	1010.2	1016.2
32.5°	938.0	952.9	969.3	980.5	987.1
35°	903.8	918.0	936.6	950.0	956.6
37.5°	868.9	883.7	903.1	917.2	925.4
40°	831.7	847.3	868.1	883.7	891.9
42.5°	793.0	807.9	830.9	848.8	858.5
45°	753.6	769.2	793.0	811.6	821.3
47.5°	712.6	727.5	753.6	775.1	783.3
50°	670.2	684.4	711.9	735.0	744.6
52.5°	627.1	642.0	669.5	694.1	704.5
55°	583.2	598.1	627.1	652.4	663.6
57.5°	538.6	553.5	583.2	609.2	622.6
60°	492.5	507.3	538.6	565.4	578.7
62.5°	444.8	460.5	492.5	520.0	534.1
65°	397.2	412.1	445.6	475.3	486.5
67.5°	349.6	364.5	397.2	427.0	440.4
70°	300.5	317.6	349.6	380.9	392.8
72.5°	249.2	268.5	300.5	333.3	345.2
75°	201.6	220.2	254.4	284.9	298.3
77.5°	154.7	174.8	206.8	238.0	251.4
80°	110.1	129.4	162.2	191.9	206.1
82.5°	69.9	87.0	119.8	146.5	157.0
85°	35.7	50.6	75.1	84.1	89.3
87.5°	10.4	17.9	26.8	33.5	37.2
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	16.07	17.73	16.43	18.04	18.35	16.80	18.46	17.17	18.77	19.09
	3H	17.83	19.34	18.21	19.67	20.03	18.88	20.39	19.26	20.71	21.07
	4H	18.45	19.87	18.85	20.22	20.60	19.75	21.17	20.14	21.51	21.89
	6H	18.86	20.18	19.27	20.54	20.93	20.49	21.81	20.90	22.17	22.56
	8H	18.97	20.23	19.39	20.61	21.01	20.79	22.05	21.21	22.43	22.83
	12H	19.01	20.22	19.44	20.60	21.03	20.98	22.19	21.41	22.57	23.00
4H	2H	16.83	18.25	17.23	18.60	18.98	17.41	18.83	17.80	19.17	19.55
	3H	18.83	20.02	19.23	20.42	20.82	19.72	20.91	20.13	21.31	21.71
	4H	19.57	20.65	20.00	21.06	21.50	20.74	21.82	21.17	22.23	22.67
	6H	20.10	21.05	20.55	21.49	21.94	21.64	22.59	22.10	23.03	23.49
	8H	20.24	21.13	20.70	21.57	22.03	22.01	22.90	22.47	23.34	23.80
	12H	20.32	21.12	20.80	21.59	22.06	22.26	23.06	22.74	23.54	24.01
8H	4H	20.01	20.90	20.47	21.34	21.81	21.03	21.92	21.49	22.37	22.83
	6H	20.68	21.42	21.17	21.91	22.38	22.09	22.83	22.58	23.32	23.79
	8H	20.89	21.55	21.39	22.06	22.54	22.56	23.23	23.07	23.74	24.22
	12H	21.02	21.61	21.53	22.10	22.66	22.92	23.51	23.42	24.00	24.55
12H	4H	20.09	20.90	20.57	21.37	21.84	21.06	21.86	21.54	22.34	22.80
	6H	20.80	21.47	21.31	21.97	22.46	22.14	22.81	22.65	23.32	23.80
	8H	21.08	21.67	21.58	22.16	22.72	22.68	23.27	23.19	23.76	24.32