

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: P1587649

Luminaire Tested: 22CZSP-SB-35-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587649
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-35-L945
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

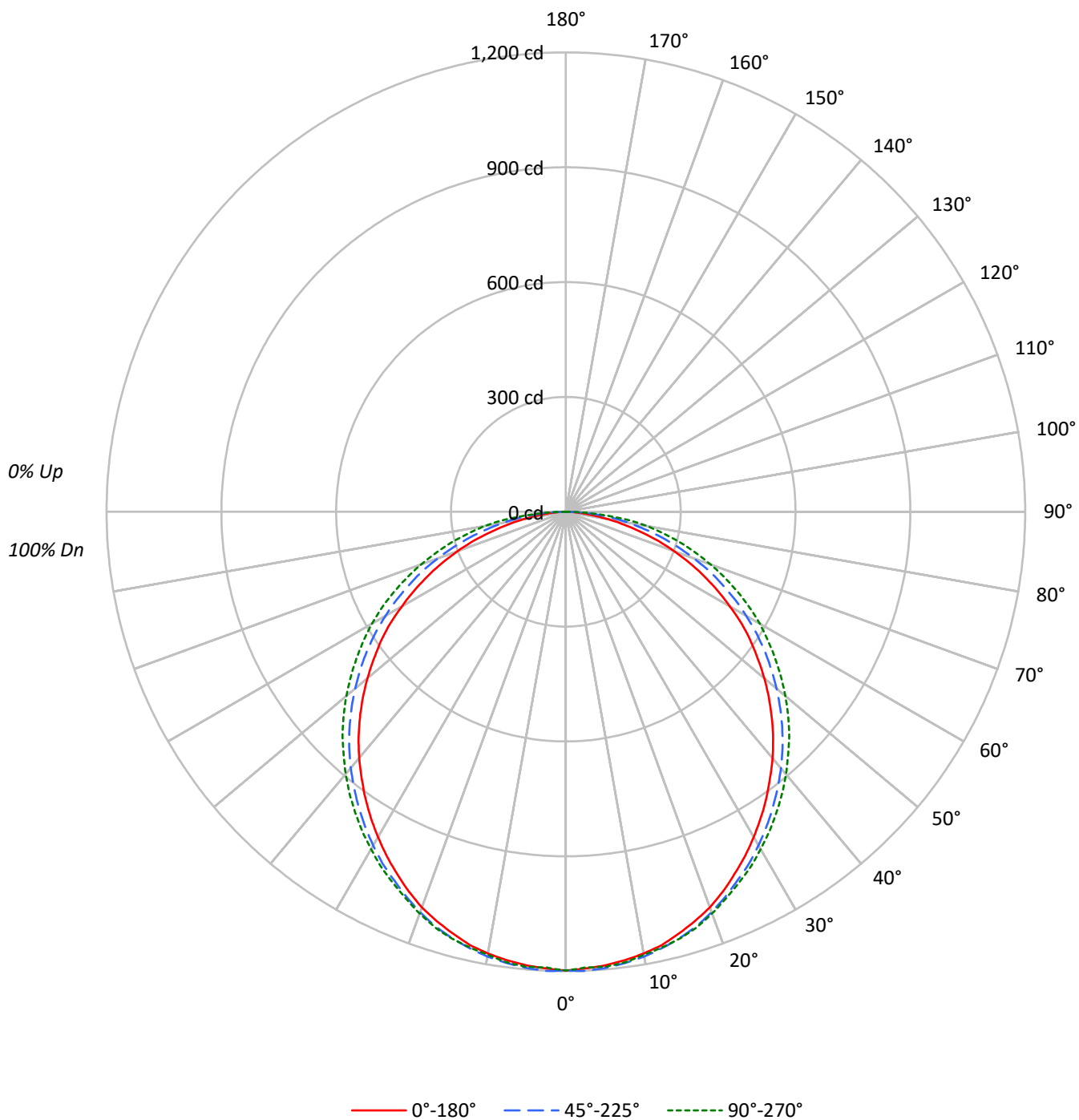
Lumens per Lamp: N/A
Luminaire Lumens: 3497.0 lumens
Efficiency: N/A
Efficacy: 141.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3752	3752	3752
5°	3739	3760	3750
10°	3725	3751	3737
15°	3698	3736	3741
20°	3665	3710	3722
25°	3606	3670	3695
30°	3548	3640	3680
35°	3491	3604	3667
40°	3434	3573	3658
45°	3370	3540	3655
50°	3296	3501	3645
55°	3220	3463	3645
60°	3101	3411	3666
65°	2956	3345	3669
70°	2758	3253	3680
75°	2454	3134	3743
80°	2016	3002	3884
85°	1329	2820	3510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3978 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.4	3.2
10°-20°	324.4	9.3
20°-30°	489.0	14.0
30°-40°	588.9	16.8
40°-50°	615.3	17.6
50°-60°	565.2	16.2
60°-70°	445.1	12.7
70°-80°	272.9	7.8
80°-90°	82.7	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°	926.8	26.5
0°-40°	1515.7	43.3
0°-60°	2696.2	77.1
0°-90°	3497.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3497.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1198	1198	1198	1198	1198	
5°	1189	1192	1196	1195	1193	113
15°	1141	1145	1152	1157	1154	322
25°	1044	1050	1062	1073	1070	481
35°	913	925	943	960	959	571
45°	761	777	799	822	825	587
55°	590	607	634	662	668	526
65°	399	420	452	482	495	394
75°	203	226	259	290	309	216
85°	37	55	78	87	98	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1198.3	1198.3	1198.3	1198.3	1198.3
2.5°	1193.8	1196.8	1200.5	1194.6	1191.6
5°	1189.4	1191.6	1196.1	1194.6	1193.1
7.5°	1181.3	1182.7	1188.7	1188.7	1187.2
10°	1171.6	1174.6	1179.8	1179.0	1175.3
12.5°	1159.1	1161.3	1167.2	1167.2	1165.0
15°	1140.6	1145.0	1152.4	1156.8	1153.9
17.5°	1121.3	1125.7	1135.4	1139.8	1138.3
20°	1099.8	1103.5	1113.2	1119.8	1116.9
22.5°	1073.2	1077.6	1088.7	1096.1	1093.2
25°	1043.6	1050.3	1062.1	1073.2	1069.5
27.5°	1014.0	1021.4	1036.2	1047.3	1045.8
30°	981.4	991.0	1006.6	1020.6	1017.7
32.5°	948.1	959.2	975.5	990.3	989.6
35°	913.3	925.2	942.9	960.0	959.2
37.5°	876.3	890.4	908.9	927.4	928.1
40°	840.1	853.4	874.1	894.1	894.8
42.5°	801.6	815.6	837.8	858.6	859.3
45°	760.9	777.1	799.3	821.6	825.3
47.5°	719.4	736.4	759.4	783.1	787.5
50°	676.5	694.2	718.7	743.8	748.3
52.5°	632.8	651.3	676.5	701.6	708.3
55°	589.9	606.9	634.3	661.7	667.6
57.5°	544.7	560.3	589.9	618.8	626.2
60°	495.2	514.4	544.7	573.6	585.4
62.5°	447.0	467.8	498.9	527.7	541.0
65°	398.9	419.7	451.5	481.8	495.2
67.5°	350.1	371.5	405.6	434.5	449.3
70°	301.2	322.7	355.3	386.4	401.9
72.5°	252.4	275.3	307.2	339.0	354.5
75°	202.8	226.5	259.0	290.1	309.4
77.5°	156.2	179.1	211.7	243.5	259.8
80°	111.8	134.7	166.5	198.4	215.4
82.5°	71.1	92.5	123.6	150.2	165.8
85°	37.0	54.8	78.5	87.3	97.7
87.5°	11.1	21.5	30.3	34.0	42.2
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	16.11	17.77	16.47	18.08	18.40	16.85	18.52	17.22	18.83	19.15
	3H	17.87	19.38	18.25	19.70	20.06	18.95	20.46	19.33	20.78	21.14
	4H	18.49	19.92	18.89	20.26	20.64	19.83	21.26	20.23	21.60	21.98
	6H	18.91	20.23	19.32	20.59	20.98	20.60	21.92	21.01	22.29	22.68
	8H	19.01	20.28	19.44	20.66	21.06	20.91	22.18	21.34	22.56	22.96
	12H	19.07	20.28	19.49	20.66	21.09	21.13	22.34	21.55	22.72	23.15
4H	2H	16.88	18.30	17.28	18.65	19.02	17.46	18.88	17.86	19.23	19.60
	3H	18.87	20.07	19.28	20.47	20.87	19.79	20.98	20.20	21.38	21.78
	4H	19.63	20.71	20.06	21.12	21.56	20.82	21.91	21.25	22.32	22.75
	6H	20.16	21.11	20.61	21.55	22.01	21.75	22.70	22.20	23.14	23.60
	8H	20.31	21.20	20.77	21.64	22.11	22.14	23.03	22.59	23.47	23.93
	12H	20.40	21.20	20.87	21.67	22.14	22.41	23.21	22.89	23.69	24.16
8H	4H	20.08	20.97	20.54	21.41	21.88	21.12	22.01	21.58	22.45	22.92
	6H	20.75	21.50	21.25	21.99	22.46	22.20	22.95	22.70	23.44	23.91
	8H	20.98	21.64	21.48	22.15	22.63	22.69	23.36	23.20	23.87	24.35
	12H	21.12	21.72	21.63	22.20	22.76	23.07	23.66	23.57	24.15	24.71
12H	4H	20.16	20.96	20.64	21.44	21.91	21.15	21.95	21.63	22.43	22.89
	6H	20.88	21.55	21.39	22.06	22.54	22.26	22.93	22.76	23.43	23.92
	8H	21.17	21.77	21.68	22.26	22.81	22.81	23.40	23.32	23.89	24.45