

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: P1587640

Luminaire Tested: 22CZSP-SB-35-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587640
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-L850-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 3500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

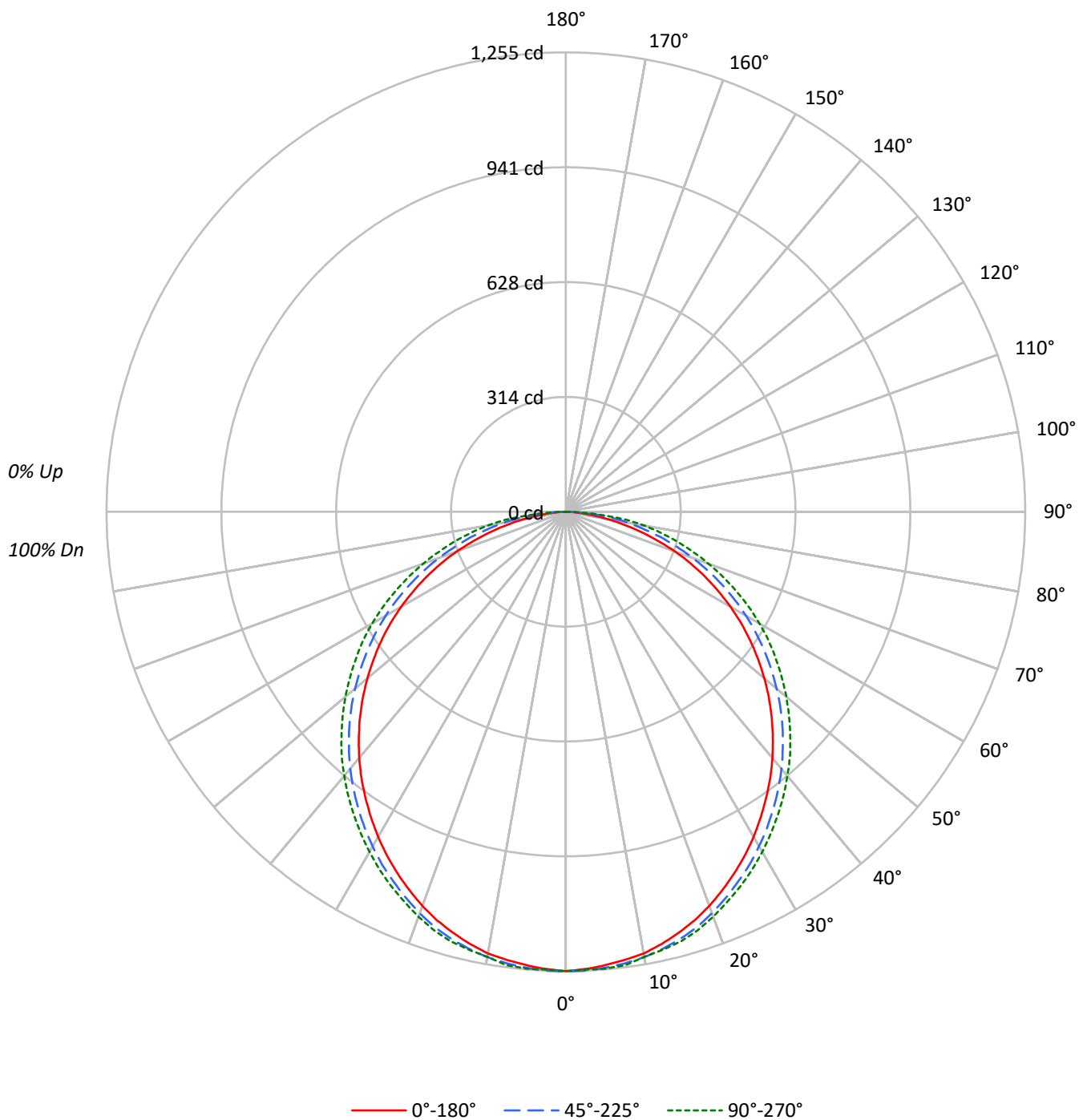
Lumens per Lamp: N/A
Luminaire Lumens: 3651.0 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	3930	3930	3930
5°	3908	3930	3938
10°	3896	3928	3926
15°	3860	3916	3939
20°	3818	3889	3923
25°	3764	3851	3899
30°	3709	3817	3879
35°	3648	3780	3861
40°	3589	3747	3849
45°	3523	3707	3840
50°	3448	3661	3830
55°	3362	3615	3825
60°	3256	3561	3827
65°	3107	3486	3806
70°	2905	3379	3797
75°	2575	3250	3810
80°	2095	3087	3924
85°	1354	2849	3384

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3975 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	3.3
10°-20°	340.1	9.3
20°-30°	512.8	14.0
30°-40°	617.1	16.9
40°-50°	643.6	17.6
50°-60°	590.0	16.2
60°-70°	463.3	12.7
70°-80°	281.9	7.7
80°-90°	83.4	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°	971.7	26.6
0°-40°	1588.8	43.5
0°-60°	2822.4	77.3
0°-90°	3651.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3651.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1255	1255	1255	1255	1255	
5°	1243	1251	1250	1249	1253	118
15°	1191	1202	1208	1210	1215	336
25°	1089	1104	1114	1122	1129	502
35°	954	969	989	1003	1010	597
45°	796	812	837	857	867	614
55°	616	632	662	689	701	550
65°	419	435	470	502	514	415
75°	213	232	269	301	315	226
85°	38	53	79	89	94	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1255.1	1255.1	1255.1	1255.1	1255.1
2.5°	1250.4	1256.7	1255.1	1249.6	1251.9
5°	1243.3	1251.2	1250.4	1248.8	1252.7
7.5°	1234.7	1243.3	1244.1	1244.1	1248.8
10°	1225.2	1233.9	1235.5	1233.1	1234.7
12.5°	1209.5	1219.7	1222.9	1222.9	1225.2
15°	1190.7	1202.5	1208.0	1209.5	1215.0
17.5°	1170.3	1182.8	1189.9	1193.8	1198.5
20°	1145.9	1159.3	1167.1	1171.8	1177.3
22.5°	1118.4	1133.3	1142.0	1146.7	1153.0
25°	1089.4	1104.3	1114.5	1121.6	1128.6
27.5°	1058.7	1072.9	1087.0	1095.6	1101.9
30°	1025.7	1040.7	1055.6	1066.6	1072.9
32.5°	990.4	1006.1	1023.4	1035.2	1042.2
35°	954.3	969.2	988.8	1003.0	1010.0
37.5°	917.4	933.1	953.5	968.4	977.1
40°	878.1	894.6	916.6	933.1	941.7
42.5°	837.2	853.0	877.3	896.2	906.4
45°	795.6	812.1	837.2	856.9	867.1
47.5°	752.4	768.1	795.6	818.4	827.0
50°	707.7	722.6	751.6	776.0	786.2
52.5°	662.1	677.8	706.9	732.8	743.8
55°	615.8	631.5	662.1	688.8	700.6
57.5°	568.6	584.3	615.8	643.3	657.4
60°	519.9	535.7	568.6	596.9	611.1
62.5°	469.7	486.2	519.9	549.0	563.9
65°	419.4	435.1	470.5	501.9	513.7
67.5°	369.1	384.9	419.4	450.8	465.0
70°	317.3	335.4	369.1	402.1	414.7
72.5°	263.1	283.5	317.3	351.9	364.4
75°	212.8	232.5	268.6	300.8	314.9
77.5°	163.4	184.6	218.3	251.3	265.5
80°	116.2	136.7	171.2	202.6	217.6
82.5°	73.8	91.9	126.5	154.7	165.7
85°	37.7	53.4	79.3	88.8	94.2
87.5°	11.0	18.8	28.3	35.3	39.3
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	16.25	17.91	16.62	18.23	18.54	16.99	18.65	17.35	18.96	19.28
	3H	18.02	19.53	18.40	19.85	20.21	19.07	20.57	19.45	20.90	21.26
	4H	18.64	20.06	19.04	20.41	20.78	19.93	21.35	20.33	21.70	22.08
	6H	19.05	20.37	19.46	20.73	21.12	20.68	22.00	21.09	22.36	22.75
	8H	19.15	20.41	19.58	20.80	21.20	20.97	22.23	21.40	22.62	23.02
	12H	19.20	20.41	19.63	20.79	21.22	21.17	22.38	21.60	22.76	23.19
4H	2H	17.02	18.44	17.42	18.79	19.16	17.59	19.01	17.99	19.36	19.74
	3H	19.01	20.21	19.42	20.61	21.01	19.91	21.10	20.32	21.50	21.90
	4H	19.76	20.84	20.19	21.25	21.69	20.93	22.01	21.36	22.42	22.86
	6H	20.29	21.23	20.74	21.67	22.13	21.83	22.78	22.28	23.22	23.67
	8H	20.43	21.32	20.89	21.76	22.22	22.20	23.09	22.66	23.53	23.99
	12H	20.51	21.31	20.99	21.78	22.25	22.45	23.25	22.93	23.73	24.20
8H	4H	20.20	21.09	20.66	21.53	22.00	21.22	22.11	21.68	22.55	23.02
	6H	20.87	21.61	21.36	22.09	22.57	22.28	23.02	22.77	23.51	23.98
	8H	21.07	21.74	21.58	22.25	22.73	22.75	23.42	23.26	23.92	24.41
	12H	21.21	21.80	21.72	22.29	22.85	23.10	23.69	23.61	24.18	24.74
12H	4H	20.28	21.08	20.76	21.56	22.03	21.25	22.05	21.73	22.52	22.99
	6H	20.99	21.66	21.50	22.16	22.65	22.33	23.00	22.84	23.50	23.99
	8H	21.27	21.86	21.77	22.35	22.90	22.87	23.46	23.37	23.95	24.51