

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: P1587638

Luminaire Tested: 22CZSP-SB-35-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587638
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-L845-S
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

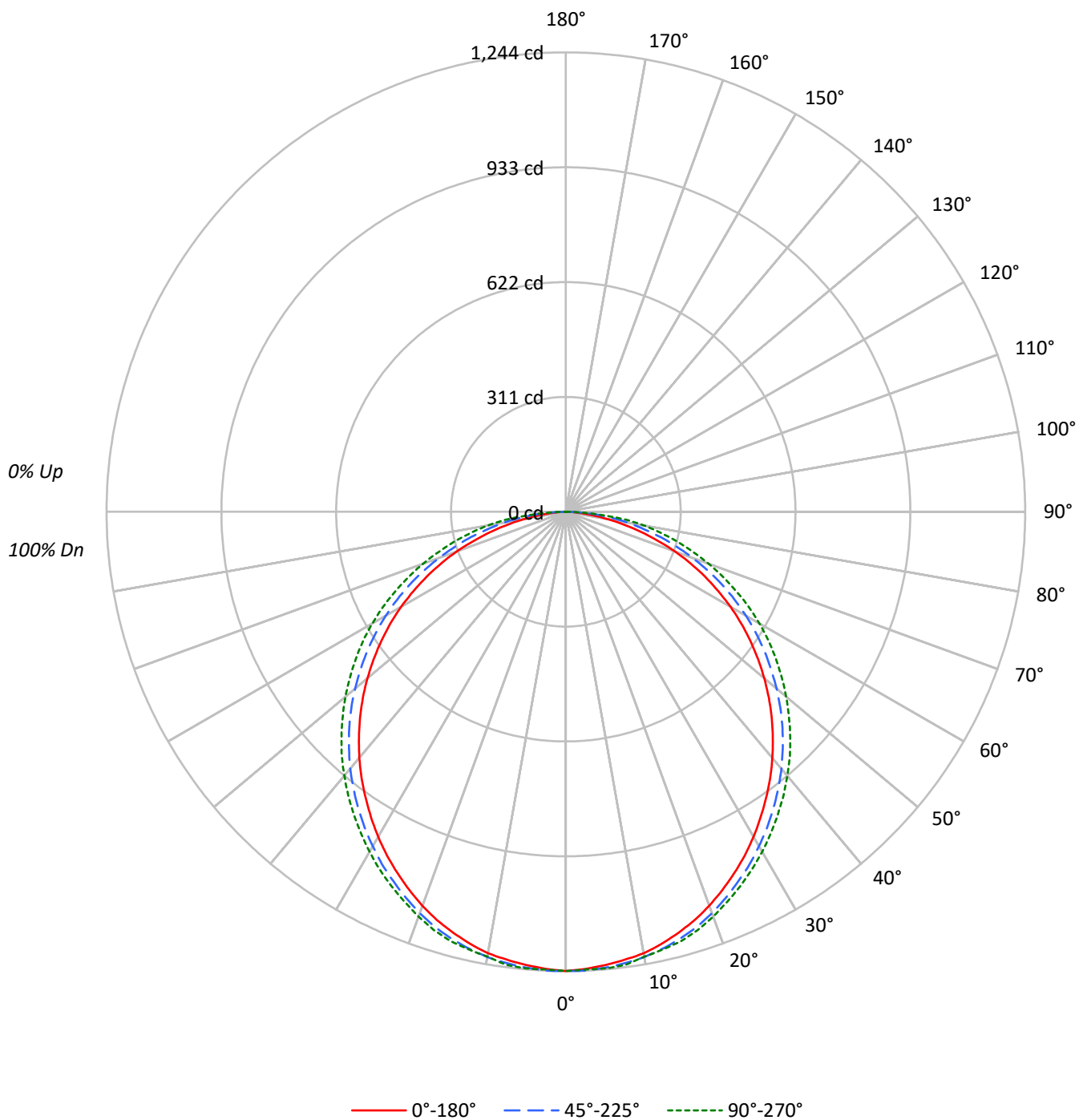
Lumens per Lamp: N/A
Luminaire Lumens: 3618.0 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	94	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	45	39		50
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3894	3894	3894
5°	3873	3895	3902
10°	3861	3893	3890
15°	3825	3880	3903
20°	3784	3854	3888
25°	3730	3816	3864
30°	3675	3782	3844
35°	3615	3746	3826
40°	3557	3713	3815
45°	3491	3674	3805
50°	3416	3628	3795
55°	3331	3582	3790
60°	3227	3529	3792
65°	3079	3454	3771
70°	2878	3349	3762
75°	2552	3221	3776
80°	2077	3060	3888
85°	1344	2824	3356

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3939 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	3.3
10°-20°	337.0	9.3
20°-30°	508.2	14.0
30°-40°	611.5	16.9
40°-50°	637.8	17.6
50°-60°	584.6	16.2
60°-70°	459.1	12.7
70°-80°	279.4	7.7
80°-90°	82.6	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°	962.9	26.6
0°-40°	1574.4	43.5
0°-60°	2796.9	77.3
0°-90°	3618.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3618.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1244	1244	1244	1244	1244	
5°	1232	1240	1239	1238	1241	117
15°	1180	1192	1197	1199	1204	333
25°	1080	1094	1104	1111	1118	497
35°	946	960	980	994	1001	592
45°	788	805	830	849	859	608
55°	610	626	656	683	694	545
65°	416	431	466	497	509	411
75°	211	230	266	298	312	224
85°	37	53	79	88	93	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1243.7	1243.7	1243.7	1243.7	1243.7
2.5°	1239.1	1245.3	1243.7	1238.3	1240.6
5°	1232.1	1239.9	1239.1	1237.5	1241.4
7.5°	1223.5	1232.1	1232.8	1232.8	1237.5
10°	1214.2	1222.7	1224.3	1222.0	1223.5
12.5°	1198.6	1208.7	1211.8	1211.8	1214.2
15°	1179.9	1191.6	1197.0	1198.6	1204.0
17.5°	1159.7	1172.1	1179.1	1183.0	1187.7
20°	1135.6	1148.8	1156.6	1161.2	1166.7
22.5°	1108.3	1123.1	1131.7	1136.3	1142.6
25°	1079.5	1094.3	1104.4	1111.4	1118.4
27.5°	1049.2	1063.2	1077.2	1085.7	1092.0
30°	1016.5	1031.3	1046.1	1056.9	1063.2
32.5°	981.5	997.0	1014.1	1025.8	1032.8
35°	945.6	960.4	979.9	993.9	1000.9
37.5°	909.1	924.6	944.9	959.7	968.2
40°	870.2	886.5	908.3	924.6	933.2
42.5°	829.7	845.2	869.4	888.1	898.2
45°	788.4	804.8	829.7	849.1	859.3
47.5°	745.6	761.2	788.4	811.0	819.6
50°	701.3	716.0	744.8	769.0	779.1
52.5°	656.1	671.7	700.5	726.2	737.1
55°	610.2	625.8	656.1	682.6	694.3
57.5°	563.5	579.1	610.2	637.4	651.4
60°	515.2	530.8	563.5	591.5	605.5
62.5°	465.4	481.8	515.2	544.0	558.8
65°	415.6	431.2	466.2	497.3	509.0
67.5°	365.8	381.4	415.6	446.8	460.8
70°	314.4	332.3	365.8	398.5	410.9
72.5°	260.7	281.0	314.4	348.7	361.1
75°	210.9	230.4	266.2	298.1	312.1
77.5°	161.9	182.9	216.4	249.1	263.1
80°	115.2	135.4	169.7	200.8	215.6
82.5°	73.2	91.1	125.3	153.3	164.2
85°	37.4	52.9	78.6	87.9	93.4
87.5°	10.9	18.7	28.0	35.0	38.9
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	16.22	17.88	16.59	18.20	18.51	16.96	18.62	17.32	18.93	19.25
	3H	17.99	19.50	18.37	19.82	20.18	19.04	20.54	19.41	20.87	21.23
	4H	18.61	20.03	19.01	20.38	20.75	19.90	21.32	20.30	21.67	22.04
	6H	19.02	20.34	19.43	20.70	21.09	20.65	21.97	21.06	22.33	22.72
	8H	19.12	20.38	19.55	20.77	21.17	20.94	22.20	21.37	22.59	22.99
	12H	19.17	20.38	19.60	20.76	21.19	21.14	22.34	21.56	22.73	23.15
4H	2H	16.99	18.41	17.39	18.76	19.13	17.56	18.98	17.96	19.33	19.70
	3H	18.98	20.18	19.39	20.57	20.97	19.88	21.07	20.28	21.47	21.87
	4H	19.73	20.81	20.16	21.22	21.66	20.89	21.98	21.33	22.39	22.83
	6H	20.25	21.20	20.71	21.64	22.10	21.80	22.75	22.25	23.19	23.64
	8H	20.40	21.29	20.85	21.73	22.19	22.17	23.06	22.63	23.50	23.96
	12H	20.48	21.28	20.96	21.75	22.22	22.42	23.22	22.90	23.70	24.16
8H	4H	20.17	21.06	20.63	21.50	21.97	21.19	22.08	21.65	22.52	22.99
	6H	20.83	21.58	21.33	22.06	22.54	22.25	22.99	22.74	23.48	23.95
	8H	21.04	21.71	21.55	22.21	22.70	22.72	23.39	23.23	23.89	24.38
	12H	21.18	21.77	21.69	22.26	22.82	23.07	23.66	23.58	24.15	24.71
12H	4H	20.25	21.05	20.73	21.53	22.00	21.22	22.02	21.70	22.49	22.96
	6H	20.96	21.63	21.46	22.13	22.61	22.30	22.97	22.81	23.47	23.96
	8H	21.24	21.82	21.74	22.31	22.87	22.84	23.43	23.34	23.92	24.48