

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: P1587644

Luminaire Tested: 22CZSP-SB-35-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587644
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-L935-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 3500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

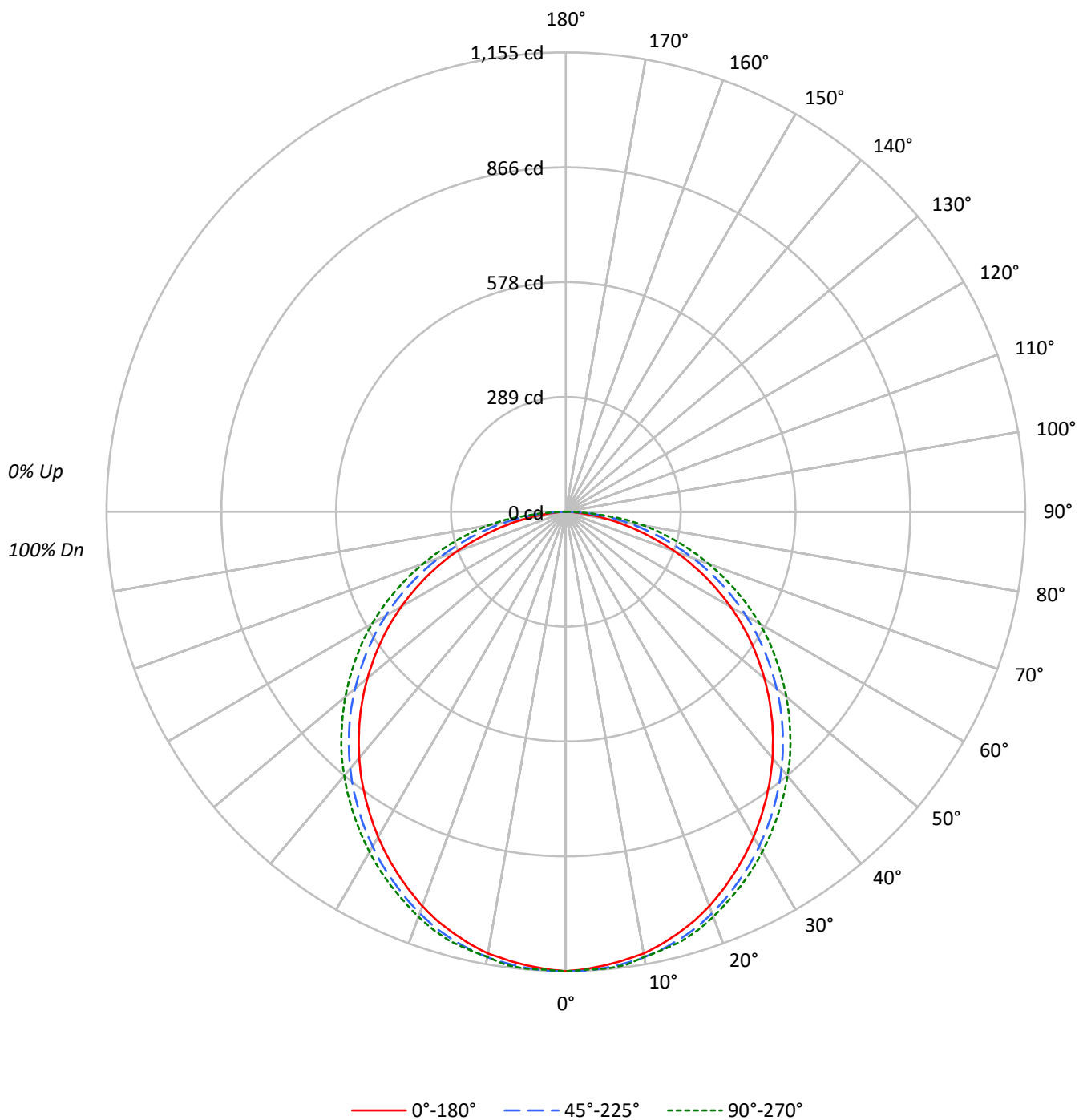
Lumens per Lamp: N/A
Luminaire Lumens: 3361.0 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	3618	3618	3618
5°	3598	3618	3625
10°	3586	3616	3614
15°	3553	3605	3626
20°	3515	3580	3612
25°	3465	3545	3590
30°	3414	3513	3571
35°	3358	3480	3554
40°	3304	3449	3544
45°	3243	3413	3535
50°	3173	3371	3525
55°	3095	3327	3521
60°	2997	3278	3523
65°	2861	3209	3504
70°	2674	3111	3496
75°	2370	2992	3507
80°	1929	2842	3612
85°	1247	2623	3119

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3661 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.3	3.3
10°-20°	313.1	9.3
20°-30°	472.1	14.0
30°-40°	568.0	16.9
40°-50°	592.5	17.6
50°-60°	543.1	16.2
60°-70°	426.5	12.7
70°-80°	259.6	7.7
80°-90°	76.8	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°	894.5	26.6
0°-40°	1462.6	43.5
0°-60°	2598.2	77.3
0°-90°	3361.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3361.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1155	1155	1155	1155	1155	
5°	1145	1152	1151	1150	1153	109
15°	1096	1107	1112	1114	1118	309
25°	1003	1017	1026	1032	1039	462
35°	878	892	910	923	930	550
45°	732	748	771	789	798	565
55°	567	581	610	634	645	507
65°	386	401	433	462	473	382
75°	196	214	247	277	290	208
85°	35	49	73	82	87	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1155.4	1155.4	1155.4	1155.4	1155.4
2.5°	1151.1	1156.8	1155.4	1150.3	1152.5
5°	1144.6	1151.8	1151.1	1149.6	1153.2
7.5°	1136.6	1144.6	1145.3	1145.3	1149.6
10°	1127.9	1135.9	1137.3	1135.2	1136.6
12.5°	1113.5	1122.9	1125.8	1125.8	1127.9
15°	1096.1	1107.0	1112.0	1113.5	1118.5
17.5°	1077.3	1088.9	1095.4	1099.0	1103.3
20°	1054.9	1067.2	1074.4	1078.8	1083.8
22.5°	1029.6	1043.3	1051.3	1055.6	1061.4
25°	1002.8	1016.6	1026.0	1032.5	1039.0
27.5°	974.6	987.7	1000.7	1008.6	1014.4
30°	944.3	958.0	971.7	981.9	987.7
32.5°	911.7	926.2	942.1	952.9	959.5
35°	878.5	892.2	910.3	923.3	929.8
37.5°	844.5	859.0	877.8	891.5	899.4
40°	808.3	823.5	843.8	859.0	866.9
42.5°	770.7	785.2	807.6	825.0	834.4
45°	732.4	747.6	770.7	788.8	798.2
47.5°	692.7	707.1	732.4	753.4	761.3
50°	651.4	665.2	691.9	714.3	723.7
52.5°	609.5	624.0	650.7	674.6	684.7
55°	566.9	581.3	609.5	634.1	644.9
57.5°	523.5	537.9	566.9	592.2	605.2
60°	478.6	493.1	523.5	549.5	562.5
62.5°	432.4	447.6	478.6	505.4	519.1
65°	386.1	400.6	433.1	462.0	472.9
67.5°	339.8	354.3	386.1	415.0	428.0
70°	292.1	308.7	339.8	370.2	381.8
72.5°	242.2	261.0	292.1	323.9	335.5
75°	195.9	214.0	247.3	276.9	289.9
77.5°	150.4	169.9	201.0	231.4	244.4
80°	107.0	125.8	157.6	186.5	200.3
82.5°	68.0	84.6	116.4	142.4	152.6
85°	34.7	49.2	73.0	81.7	86.8
87.5°	10.1	17.4	26.0	32.5	36.2
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	15.97	17.63	16.33	17.94	18.26	16.70	18.36	17.07	18.68	18.99
	3H	17.74	19.24	18.11	19.57	19.93	18.78	20.29	19.16	20.61	20.97
	4H	18.35	19.77	18.75	20.12	20.50	19.65	21.07	20.04	21.41	21.79
	6H	18.76	20.08	19.17	20.44	20.84	20.39	21.71	20.80	22.07	22.46
	8H	18.87	20.13	19.29	20.51	20.91	20.69	21.95	21.11	22.34	22.73
	12H	18.92	20.12	19.34	20.50	20.93	20.88	22.09	21.31	22.47	22.90
4H	2H	16.74	18.16	17.13	18.50	18.88	17.31	18.73	17.70	19.07	19.45
	3H	18.73	19.92	19.14	20.32	20.72	19.62	20.82	20.03	21.21	21.61
	4H	19.47	20.55	19.90	20.97	21.40	20.64	21.72	21.07	22.13	22.57
	6H	20.00	20.95	20.45	21.39	21.84	21.54	22.49	22.00	22.93	23.39
	8H	20.14	21.03	20.60	21.47	21.93	21.91	22.80	22.37	23.24	23.71
	12H	20.22	21.02	20.70	21.50	21.96	22.17	22.97	22.64	23.44	23.91
8H	4H	19.91	20.80	20.37	21.25	21.71	20.94	21.83	21.39	22.27	22.73
	6H	20.58	21.32	21.07	21.81	22.28	21.99	22.74	22.49	23.22	23.70
	8H	20.79	21.45	21.29	21.96	22.44	22.47	23.13	22.97	23.64	24.12
	12H	20.92	21.51	21.43	22.00	22.56	22.82	23.41	23.32	23.90	24.46
12H	4H	20.00	20.80	20.47	21.27	21.74	20.96	21.76	21.44	22.24	22.71
	6H	20.70	21.37	21.21	21.87	22.36	22.04	22.71	22.55	23.22	23.70
	8H	20.98	21.57	21.48	22.06	22.62	22.58	23.17	23.09	23.66	24.22

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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