

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: P1586600

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-A-35-L850-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 3500 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

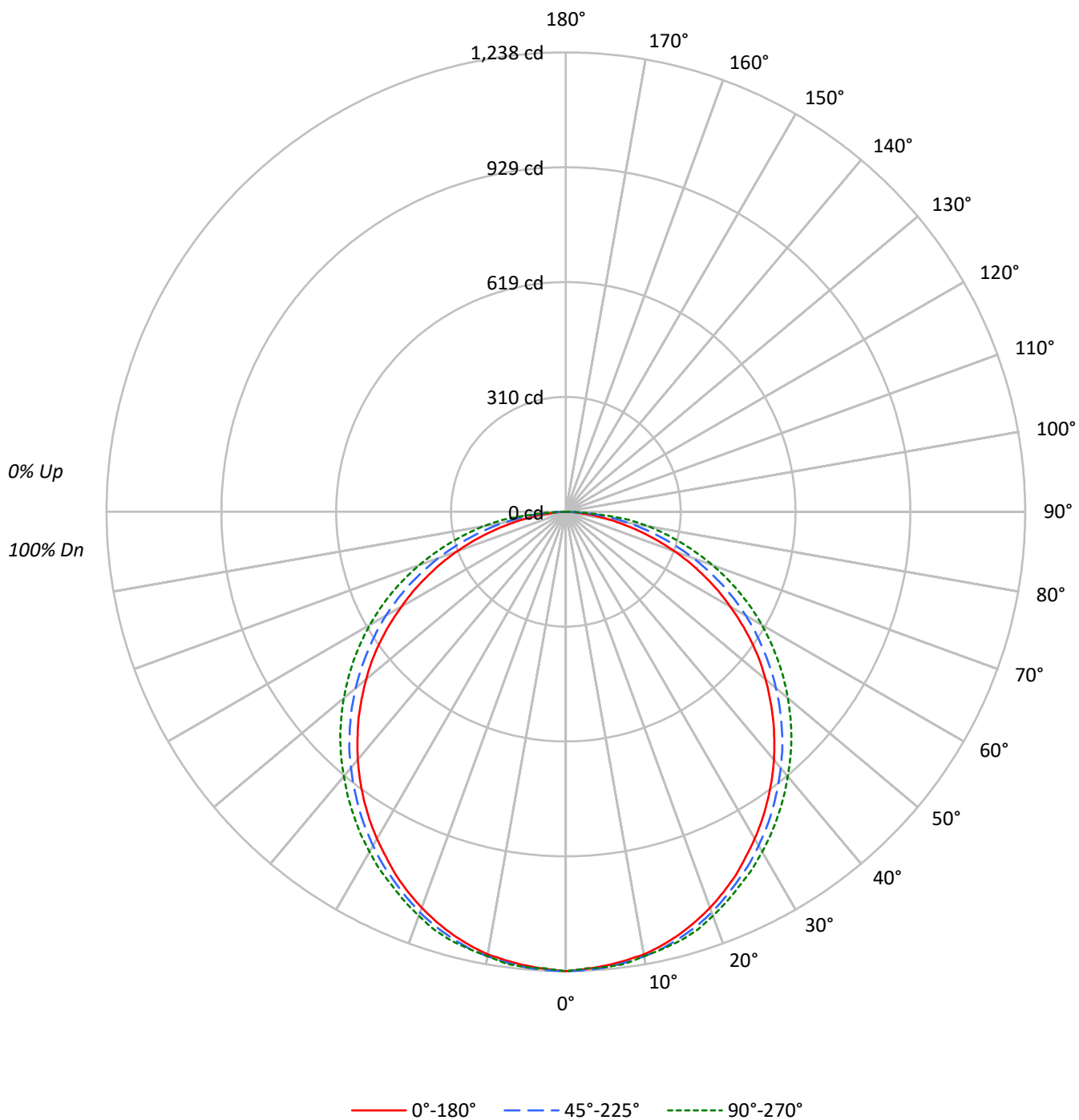
Lumens per Lamp: N/A
Luminaire Lumens: 3615.0 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	69
3	89	79	70	64	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°	3877	3877	3877
5°	3860	3875	3872
10°	3851	3869	3866
15°	3824	3855	3878
20°	3785	3830	3862
25°	3738	3790	3837
30°	3680	3757	3826
35°	3627	3721	3815
40°	3567	3683	3804
45°	3499	3646	3808
50°	3424	3601	3806
55°	3335	3551	3811
60°	3209	3512	3820
65°	3062	3444	3832
70°	2854	3348	3849
75°	2543	3215	3887
80°	2103	3062	4077
85°	1369	2763	3564

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4205 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	3.2
10°-20°	335.3	9.3
20°-30°	505.7	14.0
30°-40°	609.1	16.8
40°-50°	636.1	17.6
50°-60°	584.2	16.2
60°-70°	460.1	12.7
70°-80°	282.3	7.8
80°-90°	85.0	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°	958.1	26.5
0°-40°	1567.3	43.4
0°-60°	2787.6	77.1
0°-90°	3615.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3615.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1238	1238	1238	1238	1238	
5°	1228	1230	1233	1237	1232	117
15°	1180	1182	1189	1196	1196	333
25°	1082	1084	1097	1110	1110	498
35°	949	954	973	993	998	593
45°	790	799	823	852	860	609
55°	611	622	650	687	698	545
65°	413	428	465	504	517	409
75°	210	227	266	308	321	223
85°	38	52	77	98	99	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1238.2	1238.2	1238.2	1238.2	1238.2
2.5°	1233.5	1235.9	1236.6	1237.4	1231.9
5°	1227.9	1229.5	1232.7	1236.6	1231.9
7.5°	1220.0	1221.6	1225.5	1231.1	1228.7
10°	1211.3	1212.1	1216.8	1220.8	1216.0
12.5°	1197.0	1199.4	1204.9	1208.1	1206.5
15°	1179.5	1181.9	1189.1	1196.2	1196.2
17.5°	1158.9	1162.1	1170.8	1180.3	1181.1
20°	1135.9	1138.3	1149.4	1158.9	1158.9
22.5°	1109.7	1112.9	1124.0	1134.3	1135.9
25°	1082.0	1084.3	1097.0	1110.5	1110.5
27.5°	1049.4	1054.2	1070.1	1083.6	1086.7
30°	1017.7	1021.7	1039.1	1055.8	1058.2
32.5°	984.4	989.2	1007.4	1025.6	1029.6
35°	948.7	953.5	973.3	993.1	997.9
37.5°	911.4	917.0	937.6	960.6	965.4
40°	872.6	878.9	901.1	925.7	930.5
42.5°	831.3	840.0	863.8	889.2	896.4
45°	790.1	798.8	823.4	851.9	859.9
47.5°	746.4	756.7	782.1	812.3	821.0
50°	702.8	713.1	739.3	771.8	781.3
52.5°	658.4	668.7	695.7	729.8	740.1
55°	610.8	621.9	650.4	686.9	698.0
57.5°	561.6	575.9	606.0	643.3	654.4
60°	512.4	526.7	560.8	597.3	610.0
62.5°	464.0	477.5	512.4	551.3	564.8
65°	413.3	427.6	464.8	503.7	517.2
67.5°	363.3	377.6	414.9	455.3	469.6
70°	311.7	327.6	365.7	406.1	420.4
72.5°	260.2	276.8	315.7	357.0	370.4
75°	210.2	226.9	265.7	307.8	321.3
77.5°	161.0	179.3	217.3	260.2	272.9
80°	116.6	134.1	169.8	211.8	226.1
82.5°	74.6	89.6	125.3	165.0	175.3
85°	38.1	52.4	76.9	97.6	99.2
87.5°	11.9	16.7	25.4	38.1	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	16.19	17.85	16.55	18.16	18.48	17.02	18.68	17.38	18.99	19.31
	3H	17.94	19.45	18.32	19.78	20.13	19.13	20.64	19.51	20.97	21.33
	4H	18.56	19.98	18.96	20.33	20.70	20.02	21.44	20.42	21.79	22.17
	6H	18.97	20.29	19.38	20.66	21.05	20.80	22.12	21.21	22.49	22.88
	8H	19.08	20.34	19.50	20.73	21.13	21.12	22.39	21.55	22.77	23.17
	12H	19.13	20.34	19.56	20.72	21.15	21.33	22.55	21.76	22.93	23.35
4H	2H	16.96	18.38	17.36	18.73	19.10	17.60	19.03	18.00	19.37	19.75
	3H	18.94	20.13	19.34	20.53	20.93	19.96	21.16	20.37	21.55	21.95
	4H	19.67	20.76	20.10	21.17	21.61	21.01	22.10	21.44	22.51	22.94
	6H	20.20	21.15	20.65	21.59	22.05	21.96	22.92	22.42	23.36	23.81
	8H	20.35	21.24	20.81	21.68	22.14	22.36	23.25	22.82	23.69	24.16
	12H	20.43	21.23	20.91	21.71	22.18	22.64	23.44	23.12	23.92	24.38
8H	4H	20.13	21.02	20.59	21.46	21.93	21.30	22.19	21.76	22.63	23.10
	6H	20.79	21.54	21.28	22.02	22.50	22.41	23.16	22.90	23.64	24.12
	8H	21.00	21.67	21.51	22.18	22.66	22.92	23.59	23.43	24.10	24.58
	12H	21.14	21.73	21.65	22.22	22.78	23.31	23.90	23.82	24.39	24.95
12H	4H	20.22	21.02	20.70	21.50	21.97	21.32	22.13	21.80	22.60	23.07
	6H	20.92	21.59	21.43	22.10	22.58	22.46	23.13	22.97	23.63	24.12
	8H	21.20	21.79	21.71	22.28	22.84	23.04	23.63	23.54	24.12	24.68