

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: P1586352

Luminaire Tested: 22CZSP-35-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586352
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-35-L830-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 3500 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

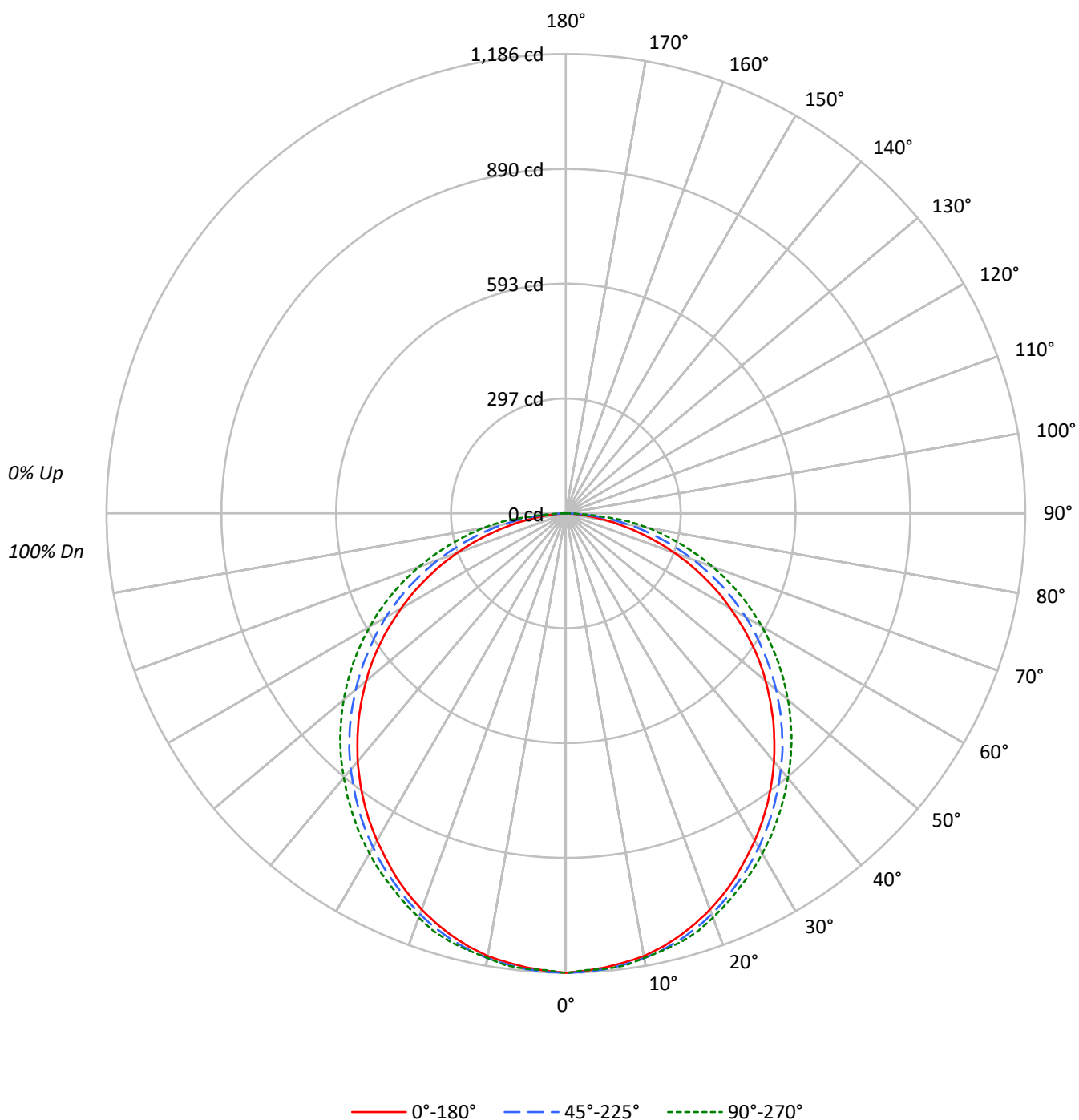
Lumens per Lamp: N/A
Luminaire Lumens: 3464.0 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	50	30	10
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°	3715	3715	3715
5°	3698	3713	3710
10°	3691	3707	3705
15°	3664	3694	3716
20°	3627	3670	3701
25°	3582	3632	3677
30°	3526	3600	3666
35°	3475	3565	3655
40°	3418	3530	3645
45°	3353	3494	3649
50°	3280	3451	3647
55°	3195	3403	3652
60°	3075	3366	3661
65°	2934	3300	3672
70°	2735	3208	3689
75°	2437	3080	3724
80°	2014	2934	3906
85°	1311	2648	3413

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4030 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	3.2
10°-20°	321.3	9.3
20°-30°	484.6	14.0
30°-40°	583.7	16.8
40°-50°	609.6	17.6
50°-60°	559.8	16.2
60°-70°	440.9	12.7
70°-80°	270.5	7.8
80°-90°	81.4	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°	918.1	26.5
0°-40°	1501.8	43.4
0°-60°	2671.2	77.1
0°-90°	3464.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3464.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1186	1186	1186	1186	1186	
5°	1177	1178	1181	1185	1180	112
15°	1130	1132	1139	1146	1146	319
25°	1037	1039	1051	1064	1064	477
35°	909	914	933	952	956	569
45°	757	765	789	816	824	584
55°	585	596	623	658	669	522
65°	396	410	445	483	496	392
75°	201	217	255	295	308	214
85°	36	50	74	94	95	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1186.5	1186.5	1186.5	1186.5	1186.5
2.5°	1182.0	1184.2	1185.0	1185.8	1180.4
5°	1176.6	1178.2	1181.2	1185.0	1180.4
7.5°	1169.0	1170.6	1174.4	1179.7	1177.4
10°	1160.7	1161.4	1166.0	1169.8	1165.2
12.5°	1147.0	1149.3	1154.6	1157.6	1156.1
15°	1130.3	1132.5	1139.4	1146.2	1146.2
17.5°	1110.5	1113.5	1121.9	1131.0	1131.8
20°	1088.5	1090.7	1101.4	1110.5	1110.5
22.5°	1063.4	1066.4	1077.1	1086.9	1088.5
25°	1036.8	1039.1	1051.2	1064.1	1064.1
27.5°	1005.6	1010.2	1025.4	1038.3	1041.3
30°	975.2	979.0	995.7	1011.7	1014.0
32.5°	943.3	947.8	965.3	982.8	986.6
35°	909.1	913.6	932.6	951.6	956.2
37.5°	873.4	878.7	898.4	920.5	925.0
40°	836.1	842.2	863.5	887.0	891.6
42.5°	796.6	804.9	827.7	852.1	858.9
45°	757.1	765.4	789.0	816.3	823.9
47.5°	715.3	725.1	749.5	778.3	786.7
50°	673.4	683.3	708.4	739.6	748.7
52.5°	630.9	640.8	666.6	699.3	709.2
55°	585.3	595.9	623.3	658.2	668.9
57.5°	538.1	551.8	580.7	616.4	627.1
60°	491.0	504.7	537.4	572.4	584.5
62.5°	444.7	457.6	491.0	528.3	541.2
65°	396.0	409.7	445.4	482.7	495.6
67.5°	348.1	361.8	397.5	436.3	450.0
70°	298.7	313.9	350.4	389.2	402.9
72.5°	249.3	265.3	302.5	342.0	355.0
75°	201.4	217.4	254.6	294.9	307.8
77.5°	154.3	171.8	208.3	249.3	261.5
80°	111.7	128.5	162.7	202.9	216.6
82.5°	71.4	85.9	120.1	158.1	168.0
85°	36.5	50.2	73.7	93.5	95.0
87.5°	11.4	16.0	24.3	36.5	37.2
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	16.04	17.70	16.40	18.01	18.33	16.87	18.53	17.23	18.84	19.16
	3H	17.79	19.30	18.17	19.63	19.99	18.98	20.49	19.36	20.82	21.18
	4H	18.41	19.83	18.81	20.18	20.56	19.87	21.30	20.27	21.64	22.02
	6H	18.82	20.14	19.23	20.51	20.90	20.65	21.98	21.07	22.34	22.73
	8H	18.93	20.19	19.35	20.58	20.98	20.97	22.24	21.40	22.63	23.02
	12H	18.98	20.19	19.41	20.57	21.00	21.19	22.40	21.61	22.78	23.21
4H	2H	16.81	18.23	17.21	18.58	18.95	17.46	18.88	17.85	19.23	19.60
	3H	18.79	19.98	19.20	20.38	20.78	19.81	21.01	20.22	21.41	21.81
	4H	19.52	20.61	19.95	21.02	21.46	20.86	21.95	21.29	22.36	22.80
	6H	20.05	21.00	20.50	21.44	21.90	21.82	22.77	22.27	23.21	23.66
	8H	20.20	21.09	20.66	21.53	22.00	22.21	23.10	22.67	23.55	24.01
	12H	20.28	21.09	20.76	21.56	22.03	22.49	23.29	22.97	23.77	24.24
8H	4H	19.98	20.87	20.44	21.32	21.78	21.15	22.04	21.61	22.49	22.95
	6H	20.64	21.39	21.14	21.87	22.35	22.26	23.01	22.76	23.49	23.97
	8H	20.85	21.52	21.36	22.03	22.51	22.78	23.44	23.28	23.95	24.43
	12H	20.99	21.59	21.50	22.08	22.63	23.16	23.75	23.67	24.24	24.80
12H	4H	20.07	20.88	20.55	21.35	21.82	21.18	21.98	21.66	22.45	22.92
	6H	20.78	21.45	21.28	21.95	22.44	22.31	22.98	22.82	23.49	23.97
	8H	21.05	21.65	21.56	22.14	22.69	22.89	23.48	23.39	23.97	24.53