

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: P1586614

Luminaire Tested: 22CZSP-A-37HE-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586614
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-37HE-L835-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 3500 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

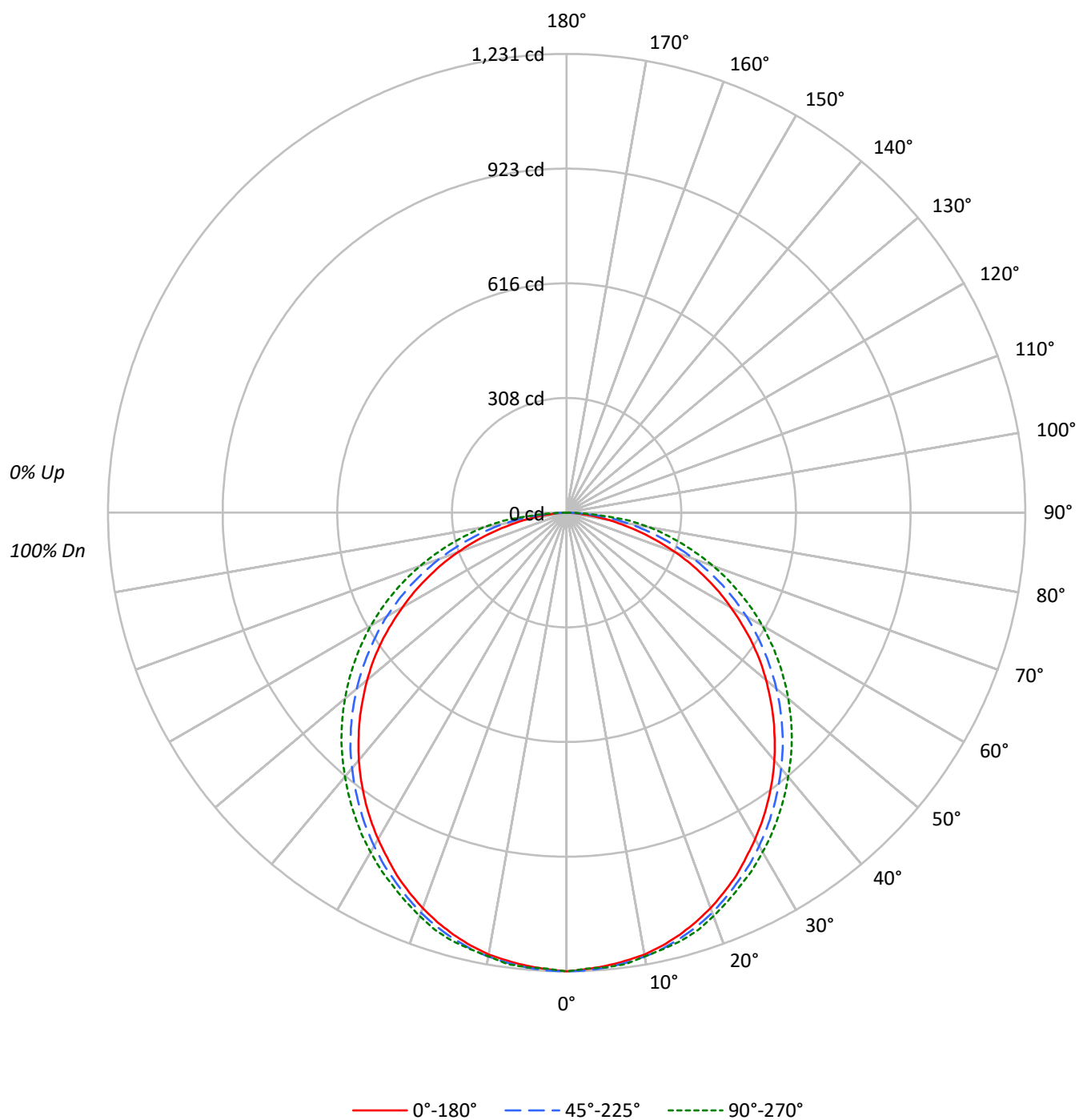
Lumens per Lamp: N/A
Luminaire Lumens: 3594.0 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.1
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°	3855	3855	3855
5°	3837	3852	3850
10°	3829	3846	3844
15°	3802	3832	3855
20°	3763	3808	3839
25°	3717	3768	3815
30°	3658	3735	3804
35°	3606	3699	3792
40°	3546	3662	3781
45°	3478	3625	3786
50°	3404	3581	3784
55°	3315	3531	3789
60°	3191	3492	3798
65°	3045	3424	3810
70°	2837	3329	3827
75°	2529	3196	3864
80°	2090	3044	4054
85°	1362	2748	3542

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4181 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.4	3.2
10°-20°	333.4	9.3
20°-30°	502.8	14.0
30°-40°	605.6	16.8
40°-50°	632.4	17.6
50°-60°	580.8	16.2
60°-70°	457.5	12.7
70°-80°	280.7	7.8
80°-90°	84.5	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°	952.6	26.5
0°-40°	1558.2	43.4
0°-60°	2771.4	77.1
0°-90°	3594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3594.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1231	1231	1231	1231	1231	
5°	1221	1222	1226	1230	1225	116
15°	1173	1175	1182	1189	1189	331
25°	1076	1078	1091	1104	1104	495
35°	943	948	968	987	992	590
45°	786	794	819	847	855	606
55°	607	618	647	683	694	542
65°	411	425	462	501	514	406
75°	209	226	264	306	319	222
85°	38	52	76	97	99	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1231.0	1231.0	1231.0	1231.0	1231.0
2.5°	1226.3	1228.7	1229.5	1230.3	1224.7
5°	1220.8	1222.4	1225.5	1229.5	1224.7
7.5°	1212.9	1214.5	1218.4	1223.9	1221.6
10°	1204.2	1205.0	1209.7	1213.7	1209.0
12.5°	1190.0	1192.4	1197.9	1201.1	1199.5
15°	1172.7	1175.0	1182.1	1189.2	1189.2
17.5°	1152.2	1155.3	1164.0	1173.5	1174.3
20°	1129.3	1131.7	1142.7	1152.2	1152.2
22.5°	1103.3	1106.4	1117.5	1127.7	1129.3
25°	1075.7	1078.0	1090.7	1104.1	1104.1
27.5°	1043.3	1048.1	1063.9	1077.3	1080.4
30°	1011.8	1015.7	1033.1	1049.7	1052.0
32.5°	978.7	983.4	1001.6	1019.7	1023.6
35°	943.2	947.9	967.6	987.4	992.1
37.5°	906.1	911.6	932.2	955.0	959.8
40°	867.5	873.8	895.9	920.3	925.1
42.5°	826.5	835.2	858.8	884.0	891.1
45°	785.5	794.1	818.6	847.0	854.9
47.5°	742.1	752.3	777.6	807.6	816.2
50°	698.7	709.0	735.0	767.3	776.8
52.5°	654.6	664.8	691.6	725.5	735.8
55°	607.2	618.3	646.7	682.9	694.0
57.5°	558.3	572.5	602.5	639.6	650.6
60°	509.5	523.6	557.6	593.8	606.5
62.5°	461.3	474.8	509.5	548.1	561.5
65°	410.9	425.1	462.1	500.8	514.2
67.5°	361.2	375.4	412.4	452.7	466.9
70°	309.9	325.7	363.6	403.8	418.0
72.5°	258.7	275.2	313.9	354.9	368.3
75°	209.0	225.5	264.2	306.0	319.4
77.5°	160.1	178.2	216.1	258.7	271.3
80°	115.9	133.3	168.8	210.6	224.8
82.5°	74.1	89.1	124.6	164.0	174.3
85°	37.9	52.0	76.5	97.0	98.6
87.5°	11.8	16.6	25.2	37.9	38.6
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	16.17	17.83	16.53	18.14	18.46	17.00	18.66	17.36	18.97	19.29
	3H	17.92	19.43	18.30	19.75	20.11	19.11	20.62	19.49	20.95	21.31
	4H	18.54	19.96	18.94	20.31	20.68	20.00	21.42	20.40	21.77	22.15
	6H	18.95	20.27	19.36	20.64	21.03	20.78	22.10	21.19	22.47	22.86
	8H	19.06	20.32	19.48	20.71	21.11	21.10	22.37	21.53	22.75	23.15
	12H	19.11	20.32	19.54	20.70	21.13	21.31	22.53	21.74	22.91	23.33
4H	2H	16.94	18.36	17.34	18.71	19.08	17.58	19.01	17.98	19.35	19.73
	3H	18.91	20.11	19.32	20.51	20.91	19.94	21.14	20.35	21.53	21.93
	4H	19.65	20.74	20.08	21.15	21.59	20.99	22.08	21.42	22.49	22.92
	6H	20.18	21.13	20.63	21.57	22.03	21.94	22.90	22.40	23.34	23.79
	8H	20.33	21.22	20.79	21.66	22.12	22.34	23.23	22.80	23.67	24.14
	12H	20.41	21.21	20.89	21.69	22.16	22.62	23.42	23.10	23.90	24.36
8H	4H	20.11	21.00	20.57	21.44	21.91	21.28	22.17	21.74	22.61	23.08
	6H	20.77	21.52	21.26	22.00	22.48	22.39	23.14	22.88	23.62	24.10
	8H	20.98	21.65	21.49	22.16	22.64	22.90	23.57	23.41	24.08	24.56
	12H	21.12	21.71	21.63	22.20	22.76	23.29	23.88	23.80	24.37	24.93
12H	4H	20.20	21.00	20.68	21.48	21.95	21.31	22.11	21.78	22.58	23.05
	6H	20.90	21.57	21.41	22.08	22.56	22.44	23.11	22.95	23.61	24.10
	8H	21.18	21.77	21.69	22.26	22.82	23.02	23.61	23.52	24.10	24.66