

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: P1586612

Luminaire Tested: 22CZSP-A-37HE-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586612
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-L830-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 3500 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

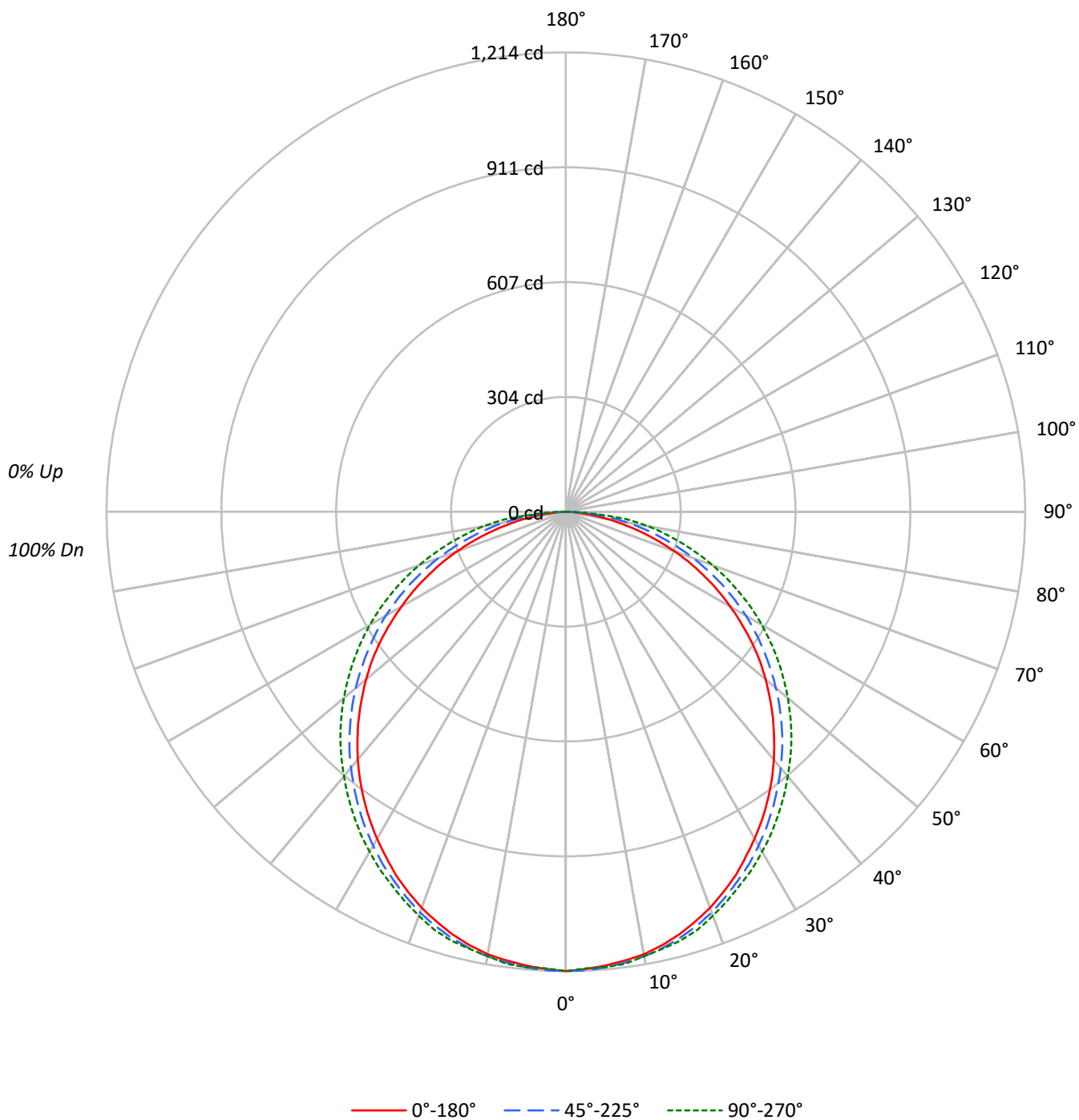
Lumens per Lamp: N/A
Luminaire Lumens: 3544.0 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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
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	93	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	65	61		69
4	82	69	60	54	79	68	60	53	66	58	52		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	44	39		50
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3801	3801	3801
5°	3784	3799	3796
10°	3776	3793	3790
15°	3749	3779	3802
20°	3711	3755	3786
25°	3665	3716	3761
30°	3607	3683	3751
35°	3555	3648	3740
40°	3497	3611	3729
45°	3430	3575	3733
50°	3356	3531	3732
55°	3269	3481	3736
60°	3146	3443	3745
65°	3002	3376	3757
70°	2798	3282	3774
75°	2494	3152	3810
80°	2061	3001	3996
85°	1340	2709	3492

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4124 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	3.2
10°-20°	328.7	9.3
20°-30°	495.8	14.0
30°-40°	597.2	16.8
40°-50°	623.6	17.6
50°-60°	572.7	16.2
60°-70°	451.1	12.7
70°-80°	276.7	7.8
80°-90°	83.3	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°	939.3	26.5
0°-40°	1536.5	43.4
0°-60°	2732.9	77.1
0°-90°	3544.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3544.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1214	1214	1214	1214	1214	
5°	1204	1205	1208	1212	1208	114
15°	1156	1159	1166	1173	1173	326
25°	1061	1063	1076	1089	1089	488
35°	930	935	954	974	978	582
45°	774	783	807	835	843	597
55°	599	610	638	673	684	535
65°	405	419	456	494	507	401
75°	206	222	260	302	315	219
85°	37	51	75	96	97	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1213.9	1213.9	1213.9	1213.9	1213.9
2.5°	1209.2	1211.6	1212.4	1213.1	1207.7
5°	1203.8	1205.4	1208.5	1212.4	1207.7
7.5°	1196.0	1197.6	1201.5	1206.9	1204.6
10°	1187.5	1188.3	1192.9	1196.8	1192.1
12.5°	1173.5	1175.8	1181.3	1184.4	1182.8
15°	1156.4	1158.7	1165.7	1172.7	1172.7
17.5°	1136.1	1139.3	1147.8	1157.1	1157.9
20°	1113.6	1115.9	1126.8	1136.1	1136.1
22.5°	1087.9	1091.0	1101.9	1112.0	1113.6
25°	1060.7	1063.1	1075.5	1088.7	1088.7
27.5°	1028.8	1033.5	1049.1	1062.3	1065.4
30°	997.7	1001.6	1018.7	1035.1	1037.4
32.5°	965.1	969.7	987.6	1005.5	1009.4
35°	930.1	934.7	954.2	973.6	978.3
37.5°	893.5	899.0	919.2	941.7	946.4
40°	855.4	861.6	883.4	907.5	912.2
42.5°	815.0	823.5	846.9	871.7	878.7
45°	774.5	783.1	807.2	835.2	843.0
47.5°	731.8	741.9	766.8	796.3	804.9
50°	689.0	699.1	724.8	756.7	766.0
52.5°	645.5	655.6	682.0	715.4	725.5
55°	598.8	609.7	637.7	673.4	684.3
57.5°	550.6	564.6	594.1	630.7	641.6
60°	502.4	516.4	549.8	585.6	598.0
62.5°	454.9	468.1	502.4	540.5	553.7
65°	405.2	419.2	455.7	493.8	507.0
67.5°	356.2	370.2	406.7	446.4	460.4
70°	305.6	321.2	358.5	398.2	412.2
72.5°	255.1	271.4	309.5	349.9	363.2
75°	206.1	222.4	260.5	301.7	314.9
77.5°	157.9	175.7	213.1	255.1	267.5
80°	114.3	131.4	166.4	207.6	221.6
82.5°	73.1	87.9	122.9	161.8	171.9
85°	37.3	51.3	75.4	95.7	97.2
87.5°	11.7	16.3	24.9	37.3	38.1
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	16.12	17.78	16.48	18.09	18.41	16.95	18.61	17.31	18.92	19.24
	3H	17.87	19.38	18.25	19.71	20.07	19.06	20.57	19.44	20.90	21.26
	4H	18.49	19.91	18.89	20.26	20.64	19.95	21.38	20.35	21.72	22.10
	6H	18.90	20.22	19.31	20.59	20.98	20.73	22.05	21.14	22.42	22.81
	8H	19.01	20.27	19.43	20.66	21.06	21.05	22.32	21.48	22.71	23.10
	12H	19.06	20.27	19.49	20.65	21.08	21.27	22.48	21.69	22.86	23.29
4H	2H	16.89	18.31	17.29	18.66	19.03	17.54	18.96	17.93	19.31	19.68
	3H	18.87	20.06	19.28	20.46	20.86	19.89	21.09	20.30	21.49	21.88
	4H	19.60	20.69	20.03	21.10	21.54	20.94	22.03	21.37	22.44	22.88
	6H	20.13	21.08	20.58	21.52	21.98	21.90	22.85	22.35	23.29	23.74
	8H	20.28	21.17	20.74	21.61	22.08	22.29	23.18	22.75	23.63	24.09
	12H	20.36	21.17	20.84	21.64	22.11	22.57	23.37	23.05	23.85	24.32
8H	4H	20.06	20.95	20.52	21.40	21.86	21.23	22.12	21.69	22.57	23.03
	6H	20.72	21.47	21.22	21.95	22.43	22.34	23.09	22.84	23.57	24.05
	8H	20.93	21.60	21.44	22.11	22.59	22.86	23.52	23.36	24.03	24.51
	12H	21.07	21.67	21.58	22.15	22.71	23.24	23.83	23.75	24.32	24.88
12H	4H	20.15	20.96	20.63	21.43	21.90	21.26	22.06	21.74	22.53	23.00
	6H	20.86	21.53	21.36	22.03	22.51	22.39	23.06	22.90	23.56	24.05
	8H	21.13	21.73	21.64	22.22	22.77	22.97	23.56	23.47	24.05	24.61