

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: P1586624

Luminaire Tested: 22CZSP-A-37HE-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586624
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-L935-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 3500 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

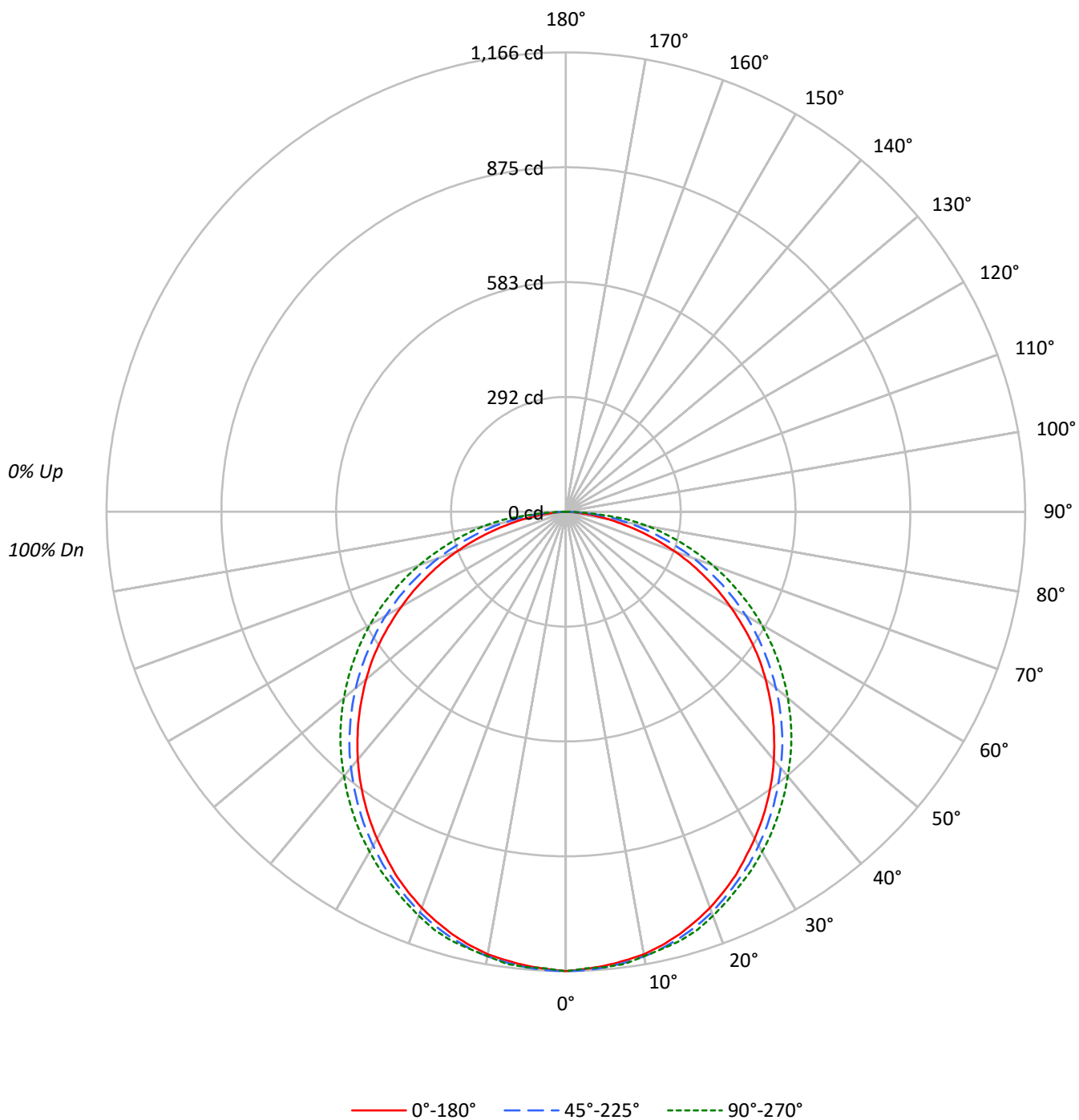
Lumens per Lamp: N/A
Luminaire Lumens: 3404.0 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.1
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

TEST NUMBER: P1586624

CATALOG NUMBER: 22CZSP-A-37HE-L935-S

Luminous Intensity Polar Plot



TEST NUMBER: P1586624

CATALOG NUMBER: 22CZSP-A-37HE-L935-S

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°	3651	3651	3651
5°	3635	3648	3646
10°	3627	3643	3641
15°	3601	3630	3652
20°	3564	3607	3637
25°	3520	3569	3613
30°	3465	3538	3603
35°	3415	3503	3592
40°	3358	3468	3582
45°	3294	3433	3586
50°	3224	3391	3584
55°	3140	3344	3588
60°	3022	3307	3597
65°	2884	3243	3608
70°	2687	3152	3625
75°	2394	3027	3660
80°	1980	2882	3839
85°	1290	2605	3356

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3961 cd/sqm

TEST NUMBER: P1586624

CATALOG NUMBER: 22CZSP-A-37HE-L935-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	3.2
10°-20°	315.8	9.3
20°-30°	476.2	14.0
30°-40°	573.6	16.8
40°-50°	599.0	17.6
50°-60°	550.1	16.2
60°-70°	433.3	12.7
70°-80°	265.8	7.8
80°-90°	80.0	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°	902.2	26.5
0°-40°	1475.8	43.4
0°-60°	2624.9	77.1
0°-90°	3404.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3404.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1166	1166	1166	1166	1166	
5°	1156	1158	1161	1164	1160	110
15°	1111	1113	1120	1126	1126	313
25°	1019	1021	1033	1046	1046	469
35°	893	898	916	935	940	559
45°	744	752	775	802	810	574
55°	575	586	612	647	657	513
65°	389	403	438	474	487	385
75°	198	214	250	290	302	210
85°	36	49	72	92	93	47
90°	0	0	0	0	0	

TEST NUMBER: P1586624

CATALOG NUMBER: 22CZSP-A-37HE-L935-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1166.0	1166.0	1166.0	1166.0	1166.0
2.5°	1161.5	1163.7	1164.5	1165.2	1160.0
5°	1156.3	1157.7	1160.7	1164.5	1160.0
7.5°	1148.8	1150.3	1154.0	1159.2	1157.0
10°	1140.6	1141.3	1145.8	1149.5	1145.0
12.5°	1127.1	1129.4	1134.6	1137.6	1136.1
15°	1110.7	1112.9	1119.7	1126.4	1126.4
17.5°	1091.3	1094.3	1102.5	1111.4	1112.2
20°	1069.6	1071.8	1082.3	1091.3	1091.3
22.5°	1045.0	1047.9	1058.4	1068.1	1069.6
25°	1018.8	1021.1	1033.0	1045.7	1045.7
27.5°	988.2	992.7	1007.6	1020.3	1023.3
30°	958.3	962.0	978.5	994.2	996.4
32.5°	926.9	931.4	948.6	965.8	969.5
35°	893.3	897.8	916.5	935.2	939.6
37.5°	858.2	863.5	882.9	904.5	909.0
40°	821.6	827.6	848.5	871.7	876.2
42.5°	782.8	791.0	813.4	837.3	844.0
45°	743.9	752.2	775.3	802.2	809.7
47.5°	702.9	712.6	736.5	764.9	773.1
50°	661.8	671.5	696.1	726.8	735.7
52.5°	620.0	629.7	655.1	687.2	696.9
55°	575.1	585.6	612.5	646.8	657.3
57.5°	528.8	542.3	570.7	605.8	616.2
60°	482.5	496.0	528.1	562.4	574.4
62.5°	437.0	449.7	482.5	519.1	531.8
65°	389.2	402.6	437.7	474.3	487.0
67.5°	342.1	355.5	390.6	428.7	442.2
70°	293.5	308.5	344.3	382.4	395.9
72.5°	245.0	260.7	297.3	336.1	348.8
75°	197.9	213.6	250.2	289.8	302.5
77.5°	151.6	168.8	204.7	245.0	256.9
80°	109.8	126.2	159.8	199.4	212.9
82.5°	70.2	84.4	118.0	155.4	165.1
85°	35.9	49.3	72.5	91.9	93.4
87.5°	11.2	15.7	23.9	35.9	36.6
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1586624

CATALOG NUMBER: 22CZSP-A-37HE-L935-S

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	15.98	17.64	16.34	17.95	18.27	16.81	18.47	17.17	18.78	19.10
	3H	17.73	19.24	18.11	19.57	19.93	18.92	20.43	19.30	20.76	21.12
	4H	18.35	19.77	18.75	20.12	20.50	19.81	21.24	20.21	21.58	21.96
	6H	18.76	20.08	19.17	20.45	20.84	20.59	21.91	21.00	22.28	22.67
	8H	18.87	20.13	19.29	20.52	20.92	20.91	22.18	21.34	22.57	22.96
	12H	18.92	20.13	19.35	20.51	20.94	21.13	22.34	21.55	22.72	23.15
4H	2H	16.75	18.17	17.15	18.52	18.89	17.40	18.82	17.79	19.17	19.54
	3H	18.73	19.92	19.14	20.32	20.72	19.75	20.95	20.16	21.35	21.74
	4H	19.46	20.55	19.89	20.96	21.40	20.80	21.89	21.23	22.30	22.74
	6H	19.99	20.94	20.44	21.38	21.84	21.75	22.71	22.21	23.15	23.60
	8H	20.14	21.03	20.60	21.47	21.94	22.15	23.04	22.61	23.49	23.95
	12H	20.22	21.03	20.70	21.50	21.97	22.43	23.23	22.91	23.71	24.18
8H	4H	19.92	20.81	20.38	21.26	21.72	21.09	21.98	21.55	22.43	22.89
	6H	20.58	21.33	21.07	21.81	22.29	22.20	22.95	22.70	23.43	23.91
	8H	20.79	21.46	21.30	21.97	22.45	22.72	23.38	23.22	23.89	24.37
	12H	20.93	21.52	21.44	22.01	22.57	23.10	23.69	23.61	24.18	24.74
12H	4H	20.01	20.82	20.49	21.29	21.76	21.12	21.92	21.59	22.39	22.86
	6H	20.71	21.38	21.22	21.89	22.37	22.25	22.92	22.76	23.42	23.91
	8H	20.99	21.59	21.50	22.07	22.63	22.83	23.42	23.33	23.91	24.47