

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: P1586391

Luminaire Tested: 22CZSP-37HE-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-668-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-37HE-L950
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 3500 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

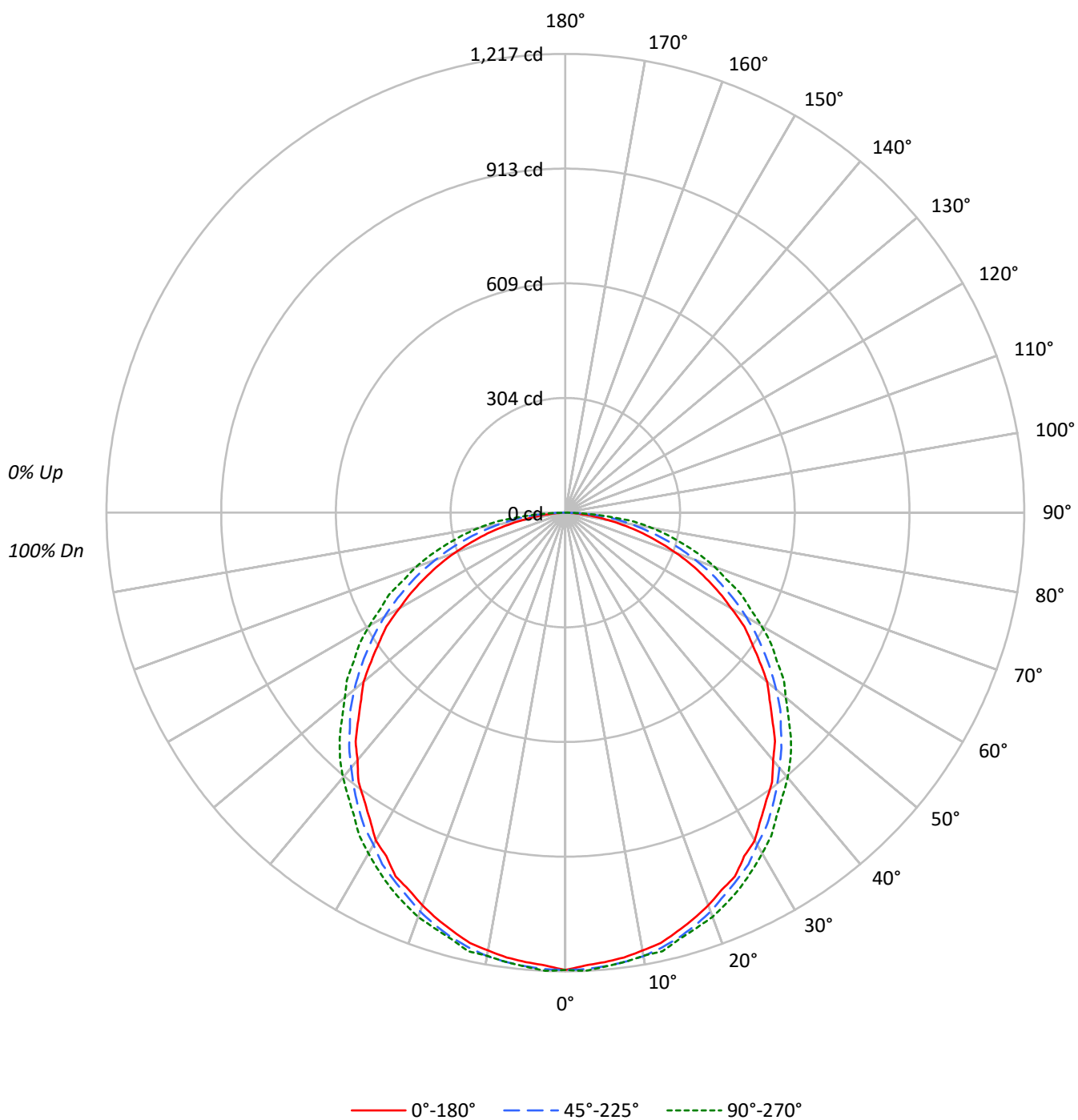
Lumens per Lamp: N/A
Luminaire Lumens: 3574.0 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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: P1586391

CATALOG NUMBER: 22CZSP-37HE-L950

Luminous Intensity Polar Plot



TEST NUMBER: P1586391

CATALOG NUMBER: 22CZSP-37HE-L950

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	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45		56	50	44		55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39		51	44	39		49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35		46	40	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		41	35	31	29
9	56	42	34	28	54	41	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3800	3800	3800
5°	3763	3797	3800
10°	3750	3799	3796
15°	3728	3781	3795
20°	3694	3752	3803
25°	3679	3717	3792
30°	3632	3680	3775
35°	3556	3656	3740
40°	3503	3611	3749
45°	3437	3577	3747
50°	3403	3557	3717
55°	3294	3509	3736
60°	3183	3471	3758
65°	3045	3418	3823
70°	2862	3353	3864
75°	2579	3293	3942
80°	2110	3233	4198
85°	1376	3219	3927

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4407 cd/sqm

TEST NUMBER: P1586391

CATALOG NUMBER: 22CZSP-37HE-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	3.2
10°-20°	328.4	9.2
20°-30°	496.4	13.9
30°-40°	598.7	16.8
40°-50°	625.8	17.5
50°-60°	577.1	16.1
60°-70°	457.3	12.8
70°-80°	285.9	8.0
80°-90°	89.7	2.5
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°	939.5	26.3
0°-40°	1538.1	43.0
0°-60°	2741.1	76.7
0°-90°	3574.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3574.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1213	1213	1213	1213	1213	
5°	1197	1202	1208	1212	1209	114
15°	1150	1156	1166	1174	1171	324
25°	1065	1062	1076	1091	1098	488
35°	930	941	956	973	978	583
45°	776	787	808	829	846	601
55°	603	618	643	678	684	541
65°	411	428	461	497	516	407
75°	213	231	272	310	326	225
85°	38	55	90	105	109	50
90°	0	0	0	0	0	

TEST NUMBER: P1586391

CATALOG NUMBER: 22CZSP-37HE-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1213.4	1213.4	1213.4	1213.4	1213.4
2.5°	1202.5	1207.9	1212.3	1211.2	1216.7
5°	1197.0	1202.5	1207.9	1212.3	1209.0
7.5°	1190.4	1195.9	1202.5	1209.0	1202.5
10°	1179.5	1182.8	1194.8	1195.9	1193.7
12.5°	1169.7	1173.0	1181.7	1189.4	1191.5
15°	1150.0	1155.5	1166.4	1174.1	1170.8
17.5°	1130.3	1138.0	1147.8	1155.5	1155.5
20°	1108.5	1113.9	1126.0	1131.4	1141.3
22.5°	1083.3	1089.9	1099.7	1115.0	1120.5
25°	1064.7	1061.5	1075.7	1091.0	1097.5
27.5°	1027.6	1031.9	1051.6	1065.8	1071.3
30°	1004.6	1006.8	1017.7	1037.4	1044.0
32.5°	964.2	970.7	990.4	1004.6	1016.6
35°	930.3	941.2	956.5	972.9	978.4
37.5°	900.8	902.9	920.4	942.3	946.7
40°	857.0	870.2	883.3	910.6	917.2
42.5°	823.1	829.7	848.3	874.5	884.4
45°	776.1	787.1	807.8	828.6	846.1
47.5°	734.6	745.5	772.9	799.1	802.4
50°	698.5	702.9	730.2	759.7	763.0
52.5°	649.3	660.3	686.5	719.3	730.2
55°	603.4	617.6	642.8	677.8	684.3
57.5°	563.0	569.5	599.1	634.0	647.1
60°	508.3	526.9	554.2	588.1	600.1
62.5°	461.3	478.8	508.3	540.0	553.1
65°	411.0	428.5	461.3	497.4	516.0
67.5°	362.9	377.1	416.5	453.7	462.4
70°	312.6	329.0	366.2	404.5	422.0
72.5°	260.2	278.8	320.3	356.4	375.0
75°	213.2	230.7	272.2	310.5	325.8
77.5°	164.0	183.7	224.1	262.4	279.8
80°	117.0	136.6	179.3	217.5	232.8
82.5°	75.4	96.2	136.6	170.5	183.7
85°	38.3	54.7	89.6	104.9	109.3
87.5°	12.0	19.7	30.6	35.0	35.0
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1586391

CATALOG NUMBER: 22CZSP-37HE-L950

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	16.16	17.83	16.53	18.14	18.46	16.95	18.62	17.32	18.93	19.25
	3H	17.94	19.46	18.32	19.78	20.14	19.10	20.61	19.47	20.93	21.29
	4H	18.58	20.01	18.98	20.36	20.73	20.02	21.45	20.42	21.79	22.17
	6H	19.01	20.33	19.42	20.70	21.09	20.84	22.17	21.26	22.53	22.92
	8H	19.12	20.39	19.54	20.78	21.18	21.19	22.46	21.61	22.85	23.25
	12H	19.18	20.39	19.60	20.77	21.20	21.43	22.65	21.86	23.03	23.46
4H	2H	16.94	18.36	17.33	18.71	19.08	17.55	18.98	17.95	19.32	19.70
	3H	18.94	20.15	19.35	20.55	20.94	19.93	21.14	20.34	21.54	21.93
	4H	19.71	20.80	20.14	21.21	21.65	21.02	22.11	21.45	22.53	22.96
	6H	20.25	21.21	20.71	21.65	22.10	22.02	22.98	22.47	23.42	23.87
	8H	20.41	21.31	20.87	21.75	22.21	22.45	23.34	22.91	23.79	24.25
	12H	20.50	21.31	20.98	21.78	22.25	22.76	23.57	23.24	24.04	24.51
8H	4H	20.19	21.08	20.64	21.53	21.99	21.33	22.23	21.79	22.67	23.13
	6H	20.88	21.63	21.37	22.11	22.59	22.49	23.24	22.99	23.73	24.20
	8H	21.10	21.78	21.61	22.28	22.77	23.04	23.71	23.55	24.22	24.70
	12H	21.25	21.85	21.76	22.34	22.90	23.47	24.06	23.97	24.55	25.11
12H	4H	20.28	21.09	20.76	21.57	22.03	21.36	22.17	21.84	22.64	23.11
	6H	21.02	21.70	21.53	22.20	22.69	22.55	23.23	23.06	23.73	24.21
	8H	21.33	21.92	21.83	22.41	22.97	23.17	23.76	23.67	24.25	24.81

END OF REPORT