

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: P1586363

Luminaire Tested: 22CZSP-35-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586363
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-772-10)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-35-L930
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 3500 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

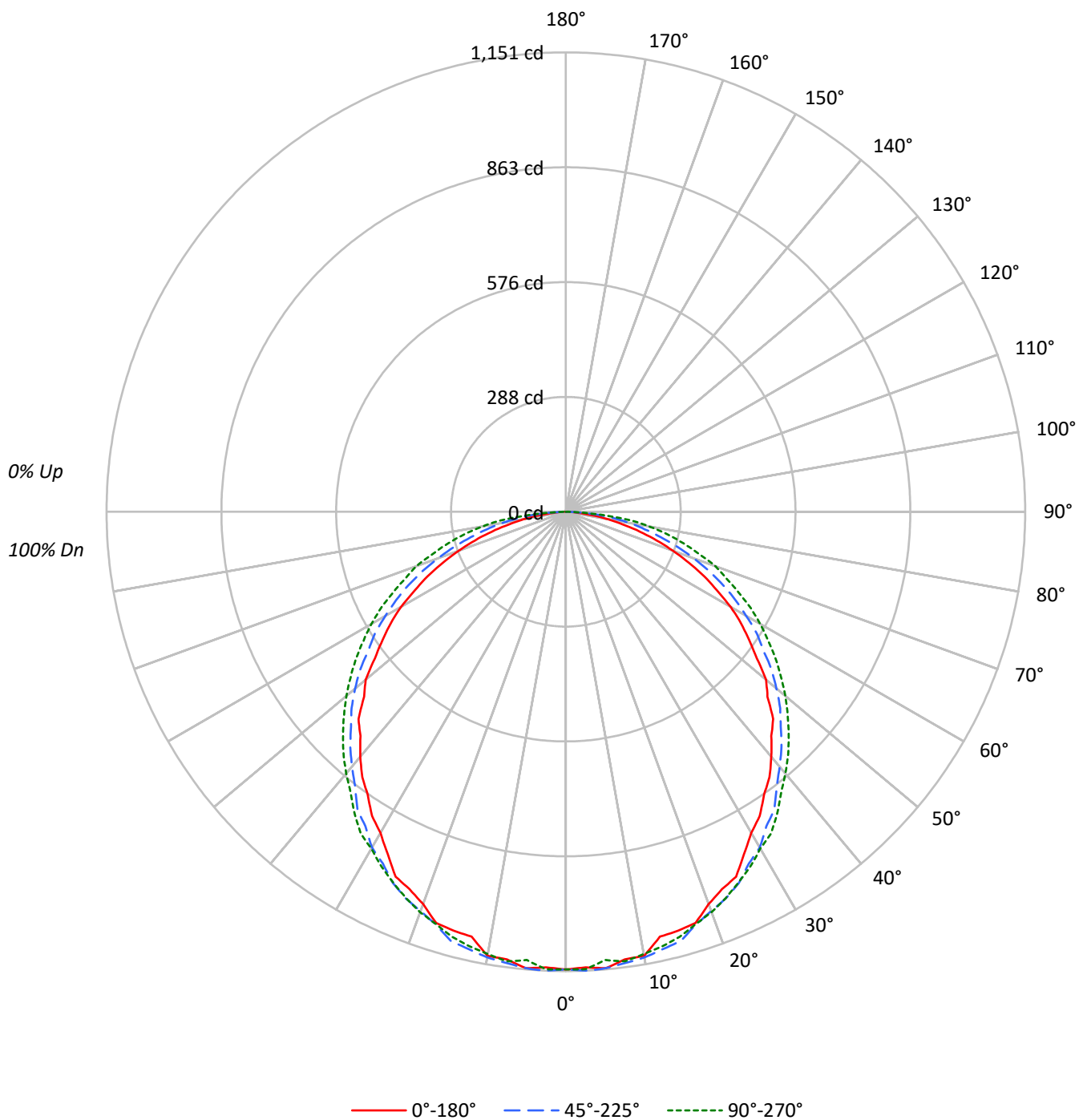
Lumens per Lamp: N/A
Luminaire Lumens: 3348.0 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1586363

CATALOG NUMBER: 22CZSP-35-L930

Luminous Intensity Polar Plot



TEST NUMBER: P1586363

CATALOG NUMBER: 22CZSP-35-L930

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	68
3	89	79	70	63	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	31	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°	3591	3591	3591
5°	3609	3609	3544
10°	3592	3605	3578
15°	3523	3608	3574
20°	3486	3548	3557
25°	3486	3545	3540
30°	3359	3514	3524
35°	3308	3480	3529
40°	3275	3406	3499
45°	3254	3370	3497
50°	3189	3356	3496
55°	3060	3294	3504
60°	2987	3268	3523
65°	2836	3222	3534
70°	2615	3118	3654
75°	2324	2980	3689
80°	1931	2923	3825
85°	1178	2616	3234

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3956 cd/sqm

TEST NUMBER: P1586363

CATALOG NUMBER: 22CZSP-35-L930

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.7	3.2
10°-20°	310.7	9.3
20°-30°	468.7	14.0
30°-40°	562.9	16.8
40°-50°	587.6	17.6
50°-60°	541.0	16.2
60°-70°	427.2	12.8
70°-80°	263.1	7.9
80°-90°	78.0	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°	888.1	26.5
0°-40°	1451.0	43.3
0°-60°	2579.6	77.1
0°-90°	3348.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3348.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1147	1147	1147	1147	1147	
5°	1148	1137	1148	1150	1127	109
15°	1087	1102	1113	1108	1102	307
25°	1009	1016	1026	1022	1025	460
35°	865	881	910	915	923	544
45°	735	740	761	778	790	562
55°	560	576	603	630	642	503
65°	383	396	435	466	477	377
75°	192	211	246	286	305	204
85°	33	47	73	86	90	44
90°	0	0	0	0	0	

TEST NUMBER: P1586363

CATALOG NUMBER: 22CZSP-35-L930

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1146.7	1146.7	1146.7	1146.7	1146.7
2.5°	1142.4	1154.5	1151.0	1153.1	1147.4
5°	1148.1	1136.7	1148.1	1149.5	1127.4
7.5°	1131.0	1132.4	1140.3	1142.4	1136.0
10°	1129.6	1133.8	1133.8	1126.7	1125.3
12.5°	1090.3	1111.7	1122.4	1127.4	1115.3
15°	1086.7	1101.7	1113.1	1108.1	1102.4
17.5°	1080.3	1076.0	1083.9	1089.6	1083.1
20°	1046.0	1053.2	1064.6	1066.0	1067.4
22.5°	1023.2	1025.3	1048.2	1050.3	1047.4
25°	1008.9	1016.0	1026.0	1021.7	1024.6
27.5°	966.8	983.9	993.2	1001.7	1001.7
30°	928.9	948.9	971.8	974.6	974.6
32.5°	903.9	917.5	934.6	940.3	956.1
35°	865.4	881.1	910.4	914.6	923.2
37.5°	838.2	853.9	867.5	882.5	886.1
40°	801.1	817.5	833.2	850.4	856.1
42.5°	761.8	779.0	799.7	817.5	824.7
45°	734.7	740.4	761.1	777.5	789.7
47.5°	685.4	701.9	728.3	749.0	754.0
50°	654.7	661.2	689.0	716.9	717.6
52.5°	603.3	622.6	649.7	676.2	679.7
55°	560.5	575.5	603.3	630.5	641.9
57.5°	520.5	531.9	567.6	594.8	601.2
60°	477.0	489.1	521.9	553.4	562.6
62.5°	426.3	443.4	479.1	509.1	521.9
65°	382.7	396.3	434.8	466.2	477.0
67.5°	333.4	352.0	388.4	423.4	434.8
70°	285.6	304.2	340.6	377.0	399.1
72.5°	238.5	257.8	294.2	336.3	348.4
75°	192.1	210.6	246.3	285.6	304.9
77.5°	146.4	166.4	202.8	242.0	260.6
80°	107.1	122.8	162.1	196.4	212.1
82.5°	66.4	82.8	119.2	151.4	164.9
85°	32.8	47.1	72.8	86.4	90.0
87.5°	10.0	15.0	22.8	30.0	34.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1586363
CATALOG NUMBER: 22CZSP-35-L930

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	15.91	17.57	16.27	17.88	18.20	16.73	18.39	17.10	18.71	19.02
	3H	17.66	19.17	18.04	19.50	19.85	18.88	20.39	19.25	20.71	21.07
	4H	18.27	19.70	18.67	20.04	20.42	19.79	21.21	20.19	21.56	21.94
	6H	18.68	20.00	19.09	20.36	20.75	20.59	21.91	21.00	22.28	22.67
	8H	18.78	20.04	19.20	20.43	20.83	20.92	22.18	21.34	22.57	22.96
	12H	18.83	20.04	19.25	20.42	20.85	21.12	22.33	21.55	22.71	23.14
4H	2H	16.70	18.12	17.10	18.47	18.84	17.34	18.76	17.73	19.11	19.48
	3H	18.67	19.87	19.08	20.27	20.67	19.72	20.91	20.13	21.31	21.71
	4H	19.40	20.49	19.84	20.90	21.34	20.78	21.87	21.21	22.28	22.72
	6H	19.92	20.88	20.38	21.32	21.77	21.75	22.70	22.20	23.14	23.60
	8H	20.06	20.96	20.52	21.40	21.86	22.15	23.04	22.61	23.48	23.95
	12H	20.14	20.94	20.62	21.42	21.89	22.42	23.22	22.89	23.69	24.16
8H	4H	19.87	20.76	20.33	21.20	21.67	21.07	21.96	21.53	22.41	22.87
	6H	20.53	21.27	21.02	21.76	22.23	22.20	22.94	22.69	23.43	23.90
	8H	20.73	21.40	21.24	21.90	22.39	22.71	23.37	23.21	23.88	24.36
	12H	20.86	21.45	21.36	21.94	22.50	23.07	23.67	23.58	24.16	24.71
12H	4H	19.96	20.77	20.44	21.24	21.71	21.10	21.90	21.58	22.38	22.84
	6H	20.66	21.33	21.17	21.84	22.32	22.25	22.92	22.75	23.42	23.91
	8H	20.94	21.53	21.44	22.02	22.58	22.82	23.41	23.33	23.90	24.46