

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: P1586607

Luminaire Tested: 22CZSP-A-35-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586607
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-A-35-L940
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

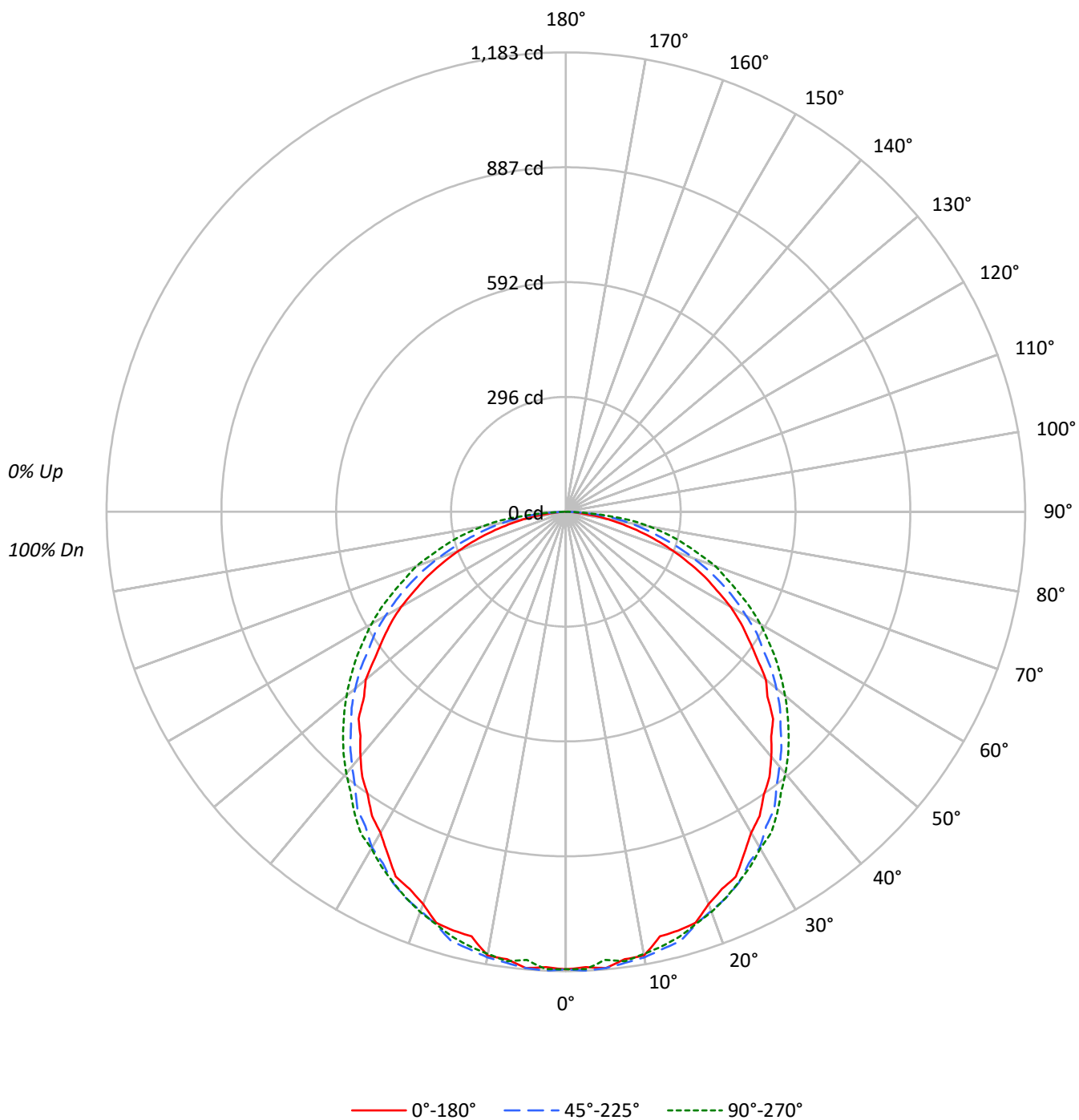
Lumens per Lamp: N/A
Luminaire Lumens: 3440.0 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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: P1586607

CATALOG NUMBER: 22CZSP-A-35-L940

Luminous Intensity Polar Plot



TEST NUMBER: P1586607

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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	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°	3689	3689	3689
5°	3708	3708	3641
10°	3690	3704	3676
15°	3620	3708	3672
20°	3582	3645	3655
25°	3581	3642	3637
30°	3451	3610	3621
35°	3399	3576	3626
40°	3365	3499	3596
45°	3343	3463	3593
50°	3277	3449	3592
55°	3144	3384	3600
60°	3069	3359	3620
65°	2913	3310	3631
70°	2686	3203	3755
75°	2387	3062	3790
80°	1984	3002	3929
85°	1211	2687	3320

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4066 cd/sqm

TEST NUMBER: P1586607

CATALOG NUMBER: 22CZSP-A-35-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.7	3.2
10°-20°	319.3	9.3
20°-30°	481.5	14.0
30°-40°	578.4	16.8
40°-50°	603.7	17.6
50°-60°	555.9	16.2
60°-70°	439.0	12.8
70°-80°	270.3	7.9
80°-90°	80.1	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°	912.5	26.5
0°-40°	1490.9	43.3
0°-60°	2650.5	77.1
0°-90°	3440.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3440.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1178	1178	1178	1178	1178	
5°	1180	1168	1180	1181	1158	112
15°	1117	1132	1144	1139	1133	316
25°	1037	1044	1054	1050	1053	472
35°	889	905	935	940	949	559
45°	755	761	782	799	811	577
55°	576	591	620	648	660	517
65°	393	407	447	479	490	387
75°	197	216	253	293	313	209
85°	34	48	75	89	92	45
90°	0	0	0	0	0	

TEST NUMBER: P1586607

CATALOG NUMBER: 22CZSP-A-35-L940

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1178.2	1178.2	1178.2	1178.2	1178.2
2.5°	1173.8	1186.3	1182.6	1184.8	1178.9
5°	1179.7	1167.9	1179.7	1181.1	1158.4
7.5°	1162.1	1163.5	1171.6	1173.8	1167.2
10°	1160.6	1165.0	1165.0	1157.7	1156.2
12.5°	1120.2	1142.3	1153.3	1158.4	1145.9
15°	1116.6	1132.0	1143.7	1138.6	1132.7
17.5°	1110.0	1105.6	1113.6	1119.5	1112.9
20°	1074.8	1082.1	1093.8	1095.3	1096.8
22.5°	1051.3	1053.5	1077.0	1079.2	1076.2
25°	1036.6	1043.9	1054.2	1049.8	1052.7
27.5°	993.3	1010.9	1020.5	1029.3	1029.3
30°	954.4	975.0	998.5	1001.4	1001.4
32.5°	928.8	942.7	960.3	966.2	982.3
35°	889.2	905.3	935.4	939.8	948.6
37.5°	861.3	877.4	891.4	906.8	910.4
40°	823.1	840.0	856.1	873.7	879.6
42.5°	782.8	800.4	821.7	840.0	847.3
45°	754.9	760.8	782.0	798.9	811.4
47.5°	704.3	721.2	748.3	769.6	774.7
50°	672.7	679.3	707.9	736.6	737.3
52.5°	619.9	639.7	667.6	694.7	698.4
55°	575.9	591.3	619.9	647.8	659.5
57.5°	534.8	546.5	583.2	611.1	617.7
60°	490.1	502.5	536.3	568.6	578.1
62.5°	438.0	455.6	492.3	523.1	536.3
65°	393.2	407.2	446.8	479.1	490.1
67.5°	342.6	361.7	399.1	435.0	446.8
70°	293.4	312.5	349.9	387.4	410.1
72.5°	245.0	264.8	302.3	345.5	358.0
75°	197.3	216.4	253.1	293.4	313.3
77.5°	150.4	170.9	208.3	248.7	267.8
80°	110.0	126.2	166.5	201.7	217.9
82.5°	68.2	85.1	122.5	155.5	169.5
85°	33.7	48.4	74.8	88.8	92.4
87.5°	10.3	15.4	23.5	30.8	35.2
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1586607

CATALOG NUMBER: 22CZSP-A-35-L940

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	16.00	17.66	16.37	17.98	18.29	16.82	18.49	17.19	18.80	19.12
	3H	17.76	19.26	18.13	19.59	19.95	18.97	20.48	19.35	20.81	21.17
	4H	18.37	19.79	18.77	20.14	20.51	19.89	21.31	20.28	21.66	22.03
	6H	18.77	20.09	19.18	20.46	20.85	20.69	22.01	21.10	22.37	22.76
	8H	18.87	20.14	19.30	20.53	20.92	21.01	22.27	21.43	22.66	23.06
	12H	18.92	20.13	19.35	20.51	20.94	21.21	22.43	21.64	22.81	23.24
4H	2H	16.79	18.22	17.19	18.56	18.94	17.43	18.85	17.83	19.20	19.58
	3H	18.77	19.97	19.18	20.36	20.76	19.81	21.01	20.22	21.41	21.80
	4H	19.50	20.59	19.93	21.00	21.43	20.88	21.96	21.31	22.38	22.81
	6H	20.02	20.97	20.47	21.41	21.86	21.84	22.80	22.30	23.24	23.69
	8H	20.16	21.05	20.62	21.49	21.96	22.24	23.13	22.70	23.58	24.04
	12H	20.23	21.04	20.71	21.51	21.98	22.51	23.31	22.99	23.79	24.26
8H	4H	19.96	20.86	20.42	21.30	21.76	21.17	22.06	21.63	22.50	22.96
	6H	20.62	21.36	21.11	21.85	22.32	22.29	23.04	22.78	23.52	24.00
	8H	20.82	21.49	21.33	22.00	22.48	22.80	23.47	23.31	23.97	24.46
	12H	20.95	21.55	21.46	22.03	22.59	23.17	23.76	23.67	24.25	24.81
12H	4H	20.06	20.86	20.53	21.33	21.80	21.19	22.00	21.67	22.47	22.94
	6H	20.76	21.43	21.26	21.93	22.42	22.34	23.01	22.85	23.52	24.00
	8H	21.03	21.62	21.54	22.11	22.67	22.91	23.51	23.42	24.00	24.55