

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: P1586606

Luminaire Tested: 22CZSP-A-35-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586606
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-35-L940-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

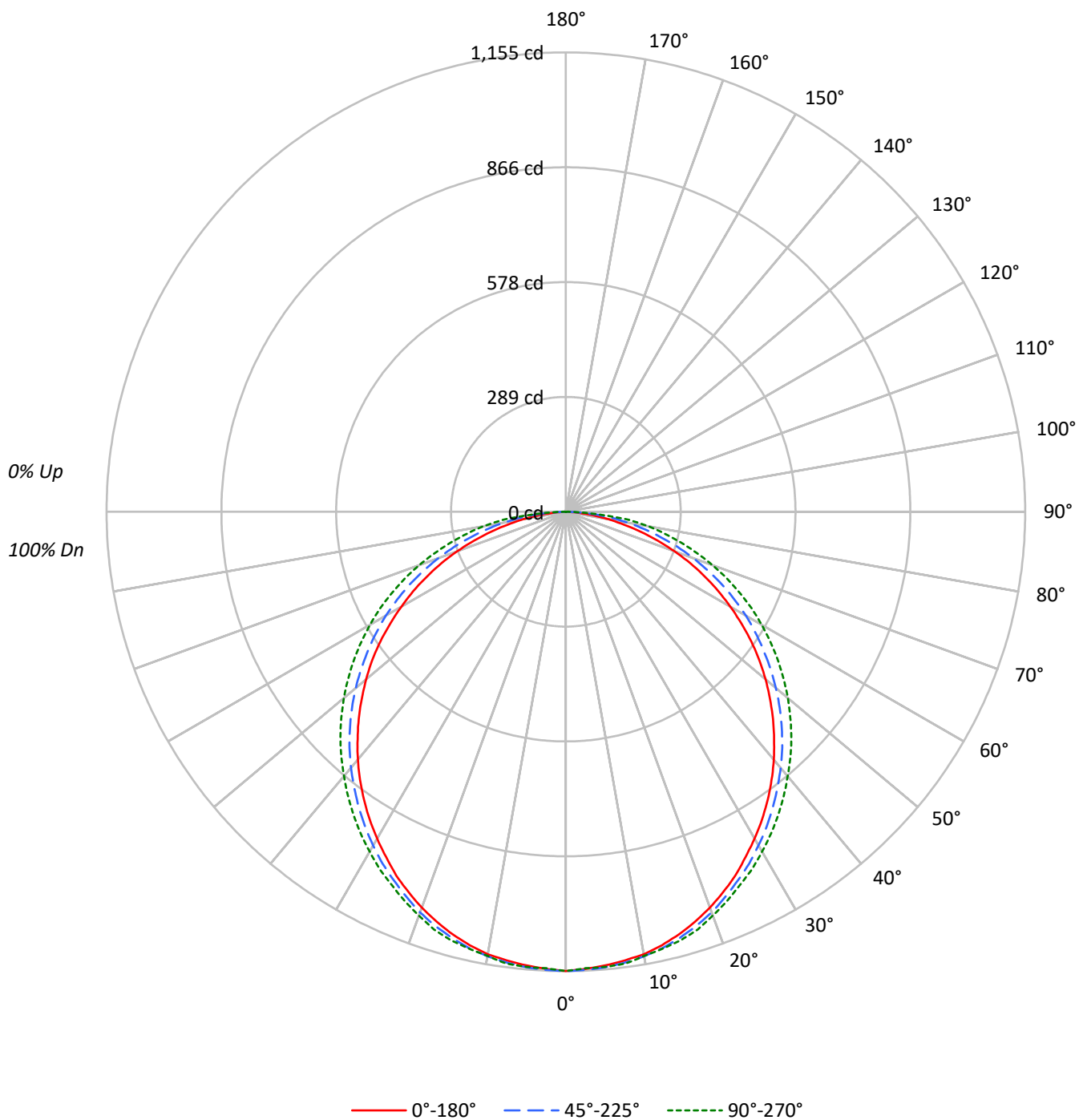
Lumens per Lamp: N/A
Luminaire Lumens: 3371.0 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.7
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

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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°	3616	3616	3616
5°	3599	3613	3611
10°	3591	3608	3605
15°	3566	3594	3616
20°	3530	3572	3601
25°	3486	3535	3578
30°	3431	3504	3568
35°	3382	3469	3557
40°	3326	3435	3547
45°	3262	3400	3551
50°	3193	3358	3549
55°	3110	3311	3553
60°	2992	3275	3562
65°	2856	3212	3574
70°	2661	3122	3589
75°	2371	2998	3625
80°	1960	2855	3801
85°	1275	2580	3323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3922 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.2	3.2
10°-20°	312.7	9.3
20°-30°	471.6	14.0
30°-40°	568.0	16.8
40°-50°	593.2	17.6
50°-60°	544.8	16.2
60°-70°	429.1	12.7
70°-80°	263.3	7.8
80°-90°	79.2	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°	893.5	26.5
0°-40°	1461.5	43.4
0°-60°	2599.4	77.1
0°-90°	3371.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3371.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1155	1155	1155	1155	1155	
5°	1145	1146	1150	1153	1149	109
15°	1100	1102	1109	1116	1116	310
25°	1009	1011	1023	1036	1036	464
35°	885	889	908	926	930	553
45°	737	745	768	794	802	568
55°	570	580	606	641	651	508
65°	385	399	434	470	482	381
75°	196	212	248	287	300	208
85°	36	49	72	91	92	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1154.7	1154.7	1154.7	1154.7	1154.7
2.5°	1150.2	1152.4	1153.2	1153.9	1148.7
5°	1145.0	1146.5	1149.5	1153.2	1148.7
7.5°	1137.6	1139.1	1142.8	1148.0	1145.8
10°	1129.5	1130.2	1134.7	1138.4	1133.9
12.5°	1116.2	1118.4	1123.6	1126.5	1125.1
15°	1099.9	1102.1	1108.8	1115.5	1115.5
17.5°	1080.7	1083.6	1091.8	1100.7	1101.4
20°	1059.2	1061.5	1071.8	1080.7	1080.7
22.5°	1034.8	1037.8	1048.1	1057.8	1059.2
25°	1008.9	1011.2	1023.0	1035.6	1035.6
27.5°	978.6	983.0	997.8	1010.4	1013.4
30°	949.0	952.7	969.0	984.5	986.7
32.5°	918.0	922.4	939.4	956.4	960.1
35°	884.7	889.1	907.6	926.1	930.5
37.5°	849.9	855.1	874.3	895.8	900.2
40°	813.7	819.6	840.3	863.2	867.7
42.5°	775.2	783.3	805.5	829.2	835.9
45°	736.7	744.9	767.8	794.4	801.8
47.5°	696.0	705.7	729.3	757.4	765.6
50°	655.4	665.0	689.4	719.7	728.6
52.5°	613.9	623.6	648.7	680.5	690.1
55°	569.6	579.9	606.5	640.6	650.9
57.5°	523.7	537.0	565.1	599.9	610.2
60°	477.8	491.2	523.0	557.0	568.8
62.5°	432.7	445.3	477.8	514.1	526.7
65°	385.4	398.7	433.5	469.7	482.3
67.5°	338.8	352.1	386.9	424.6	437.9
70°	290.7	305.5	341.0	378.7	392.0
72.5°	242.6	258.2	294.4	332.9	345.4
75°	196.0	211.6	247.8	287.0	299.6
77.5°	150.2	167.2	202.7	242.6	254.5
80°	108.7	125.0	158.3	197.5	210.8
82.5°	69.5	83.6	116.9	153.9	163.5
85°	35.5	48.8	71.8	91.0	92.5
87.5°	11.1	15.5	23.7	35.5	36.2
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	15.94	17.61	16.31	17.92	18.23	16.77	18.44	17.14	18.75	19.06
	3H	17.70	19.21	18.08	19.53	19.89	18.89	20.40	19.27	20.72	21.08
	4H	18.32	19.74	18.72	20.09	20.46	19.78	21.20	20.18	21.55	21.92
	6H	18.73	20.05	19.14	20.41	20.80	20.56	21.88	20.97	22.24	22.63
	8H	18.84	20.10	19.26	20.49	20.89	20.88	22.14	21.30	22.53	22.93
	12H	18.89	20.10	19.32	20.48	20.91	21.09	22.30	21.52	22.68	23.11
4H	2H	16.72	18.14	17.11	18.48	18.86	17.36	18.78	17.76	19.13	19.51
	3H	18.69	19.89	19.10	20.29	20.69	19.72	20.91	20.13	21.31	21.71
	4H	19.43	20.52	19.86	20.93	21.36	20.77	21.86	21.20	22.27	22.70
	6H	19.96	20.91	20.41	21.35	21.80	21.72	22.67	22.17	23.11	23.57
	8H	20.10	21.00	20.56	21.44	21.90	22.12	23.01	22.58	23.45	23.92
	12H	20.19	20.99	20.67	21.47	21.93	22.40	23.20	22.87	23.67	24.14
8H	4H	19.89	20.78	20.35	21.22	21.69	21.06	21.95	21.52	22.39	22.86
	6H	20.55	21.29	21.04	21.78	22.25	22.17	22.91	22.66	23.40	23.87
	8H	20.76	21.43	21.27	21.93	22.42	22.68	23.35	23.19	23.85	24.34
	12H	20.90	21.49	21.40	21.98	22.54	23.07	23.66	23.57	24.15	24.71
12H	4H	19.98	20.78	20.46	21.26	21.72	21.08	21.89	21.56	22.36	22.83
	6H	20.68	21.35	21.19	21.86	22.34	22.22	22.89	22.72	23.39	23.88
	8H	20.96	21.55	21.47	22.04	22.60	22.80	23.39	23.30	23.88	24.44