

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: P1586597

Luminaire Tested: 22CZSP-A-35-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586597
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-L840
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

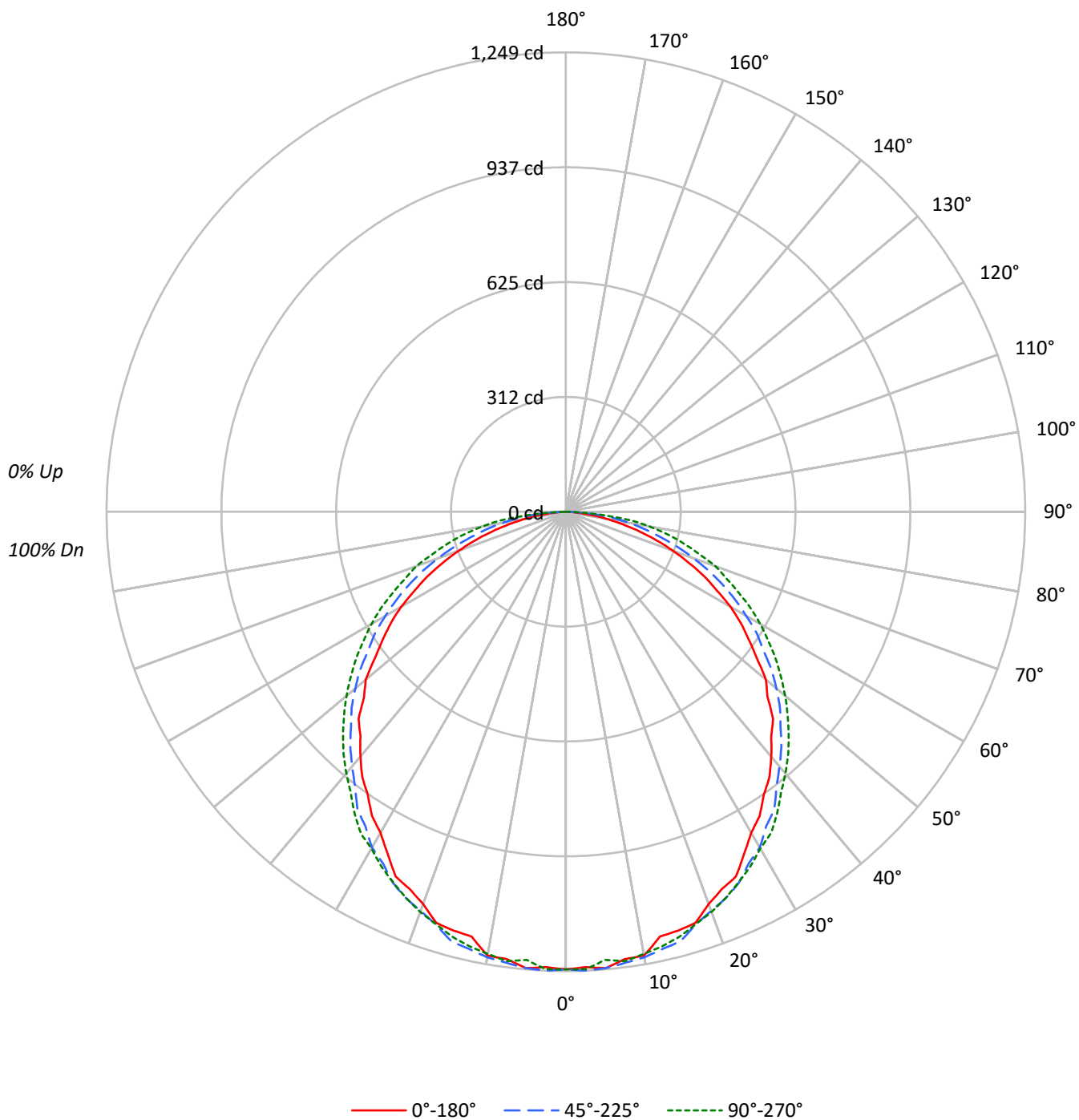
Lumens per Lamp: N/A
Luminaire Lumens: 3632.0 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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

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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			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°	3895	3895	3895
5°	3915	3915	3844
10°	3896	3911	3881
15°	3822	3915	3877
20°	3781	3848	3859
25°	3782	3846	3840
30°	3644	3812	3823
35°	3589	3775	3828
40°	3553	3695	3796
45°	3529	3657	3794
50°	3460	3641	3792
55°	3319	3573	3801
60°	3240	3546	3823
65°	3076	3495	3834
70°	2836	3383	3964
75°	2521	3233	4001
80°	2095	3170	4147
85°	1279	2838	3507

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4292 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	3.2
10°-20°	337.1	9.3
20°-30°	508.4	14.0
30°-40°	610.7	16.8
40°-50°	637.4	17.6
50°-60°	586.9	16.2
60°-70°	463.5	12.8
70°-80°	285.4	7.9
80°-90°	84.6	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°	963.5	26.5
0°-40°	1574.1	43.3
0°-60°	2798.5	77.1
0°-90°	3632.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3632.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1244	1244	1244	1244	1244	
5°	1246	1233	1246	1247	1223	118
15°	1179	1195	1208	1202	1196	333
25°	1094	1102	1113	1108	1112	499
35°	939	956	988	992	1002	590
45°	797	803	826	844	857	609
55°	608	624	654	684	696	546
65°	415	430	472	506	517	409
75°	208	228	267	310	331	221
85°	36	51	79	94	98	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1244.0	1244.0	1244.0	1244.0	1244.0
2.5°	1239.3	1252.5	1248.6	1250.9	1244.7
5°	1245.5	1233.1	1245.5	1247.1	1223.0
7.5°	1226.9	1228.5	1237.0	1239.3	1232.3
10°	1225.4	1230.0	1230.0	1222.3	1220.7
12.5°	1182.8	1206.0	1217.6	1223.0	1209.9
15°	1178.9	1195.2	1207.6	1202.1	1195.9
17.5°	1171.9	1167.3	1175.8	1182.0	1175.0
20°	1134.7	1142.5	1154.9	1156.4	1158.0
22.5°	1110.0	1112.3	1137.1	1139.4	1136.3
25°	1094.5	1102.2	1113.1	1108.4	1111.5
27.5°	1048.8	1067.4	1077.4	1086.7	1086.7
30°	1007.7	1029.4	1054.2	1057.3	1057.3
32.5°	980.6	995.3	1013.9	1020.1	1037.1
35°	938.8	955.8	987.6	992.2	1001.5
37.5°	909.3	926.4	941.1	957.4	961.2
40°	869.1	886.9	903.9	922.5	928.7
42.5°	826.5	845.1	867.5	886.9	894.6
45°	797.0	803.2	825.7	843.5	856.7
47.5°	743.6	761.4	790.1	812.5	817.9
50°	710.3	717.3	747.5	777.7	778.4
52.5°	654.5	675.4	704.9	733.5	737.4
55°	608.0	624.3	654.5	683.9	696.3
57.5°	564.7	577.1	615.8	645.2	652.2
60°	517.4	530.6	566.2	600.3	610.4
62.5°	462.4	481.0	519.7	552.3	566.2
65°	415.2	429.9	471.7	505.8	517.4
67.5°	361.7	381.9	421.4	459.3	471.7
70°	309.8	330.0	369.5	409.0	433.0
72.5°	258.7	279.6	319.1	364.8	378.0
75°	208.4	228.5	267.2	309.8	330.7
77.5°	158.8	180.5	220.0	262.6	282.7
80°	116.2	133.2	175.8	213.0	230.0
82.5°	72.0	89.9	129.4	164.2	178.9
85°	35.6	51.1	79.0	93.7	97.6
87.5°	10.8	16.3	24.8	32.5	37.2
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	16.19	17.85	16.56	18.17	18.48	17.01	18.68	17.38	18.99	19.30
	3H	17.94	19.45	18.32	19.78	20.14	19.16	20.67	19.54	20.99	21.35
	4H	18.56	19.98	18.96	20.33	20.70	20.07	21.50	20.47	21.84	22.22
	6H	18.96	20.28	19.37	20.65	21.04	20.88	22.20	21.29	22.56	22.95
	8H	19.06	20.33	19.49	20.72	21.11	21.20	22.46	21.62	22.85	23.25
	12H	19.11	20.32	19.54	20.70	21.13	21.40	22.61	21.83	23.00	23.42
4H	2H	16.98	18.41	17.38	18.75	19.13	17.62	19.04	18.02	19.39	19.76
	3H	18.96	20.15	19.36	20.55	20.95	20.00	21.20	20.41	21.59	21.99
	4H	19.69	20.77	20.12	21.19	21.62	21.07	22.15	21.50	22.56	23.00
	6H	20.21	21.16	20.66	21.60	22.05	22.03	22.99	22.49	23.42	23.88
	8H	20.35	21.24	20.81	21.68	22.15	22.43	23.32	22.89	23.76	24.23
	12H	20.42	21.23	20.90	21.70	22.17	22.70	23.50	23.18	23.98	24.44
8H	4H	20.15	21.05	20.61	21.49	21.95	21.36	22.25	21.81	22.69	23.15
	6H	20.81	21.55	21.30	22.04	22.51	22.48	23.22	22.97	23.71	24.19
	8H	21.01	21.68	21.52	22.19	22.67	22.99	23.66	23.49	24.16	24.65
	12H	21.14	21.73	21.65	22.22	22.78	23.36	23.95	23.86	24.44	25.00
12H	4H	20.24	21.05	20.72	21.52	21.99	21.38	22.18	21.86	22.66	23.13
	6H	20.95	21.62	21.45	22.12	22.61	22.53	23.20	23.04	23.70	24.19
	8H	21.22	21.81	21.73	22.30	22.86	23.10	23.69	23.61	24.18	24.74