

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: P1586671

Luminaire Tested: 22CZSP-A-43HE-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586671
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-A-43HE-L950
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

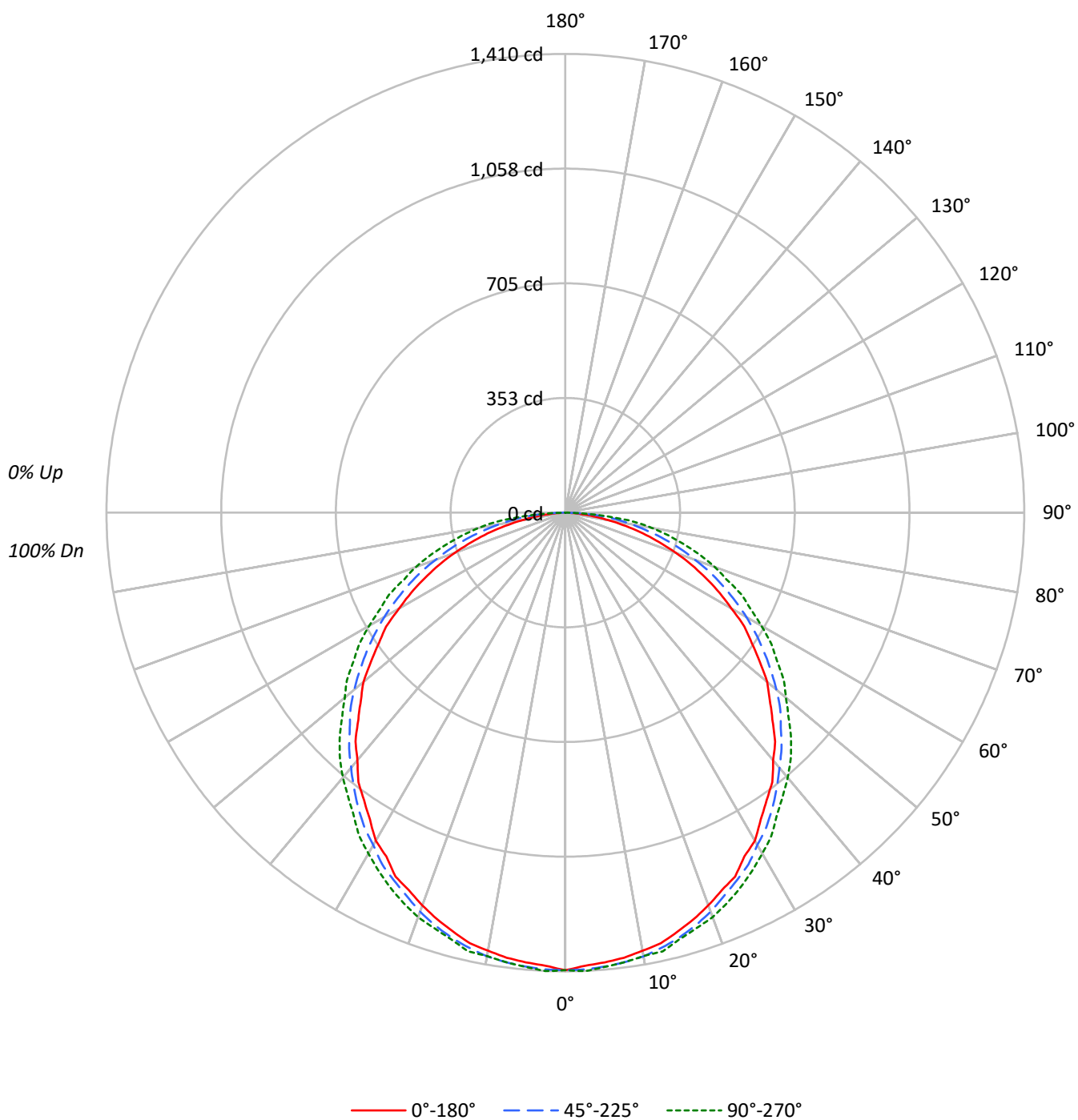
Lumens per Lamp: N/A
Luminaire Lumens: 4143.0 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.2
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	50	30	10
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°	4405	4405	4405
5°	4362	4402	4405
10°	4348	4404	4400
15°	4322	4383	4400
20°	4282	4349	4409
25°	4264	4308	4396
30°	4211	4266	4376
35°	4122	4239	4335
40°	4061	4185	4346
45°	3984	4147	4343
50°	3944	4124	4309
55°	3819	4068	4331
60°	3690	4024	4357
65°	3531	3963	4432
70°	3318	3886	4478
75°	2990	3817	4568
80°	2445	3747	4867
85°	1595	3733	4552

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5107 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.9	3.2
10°-20°	380.7	9.2
20°-30°	575.4	13.9
30°-40°	694.0	16.8
40°-50°	725.5	17.5
50°-60°	669.0	16.1
60°-70°	530.1	12.8
70°-80°	331.4	8.0
80°-90°	104.0	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°	1089.0	26.3
0°-40°	1783.0	43.0
0°-60°	3177.5	76.7
0°-90°	4143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4143.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1407	1407	1407	1407	1407	
5°	1388	1394	1400	1405	1402	132
15°	1333	1339	1352	1361	1357	376
25°	1234	1230	1247	1265	1272	566
35°	1078	1091	1109	1128	1134	676
45°	900	912	936	960	981	696
55°	700	716	745	786	793	627
65°	476	497	535	577	598	472
75°	247	267	316	360	378	260
85°	44	63	104	122	127	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1406.6	1406.6	1406.6	1406.6	1406.6
2.5°	1393.9	1400.3	1405.3	1404.1	1410.4
5°	1387.6	1393.9	1400.3	1405.3	1401.5
7.5°	1380.0	1386.3	1393.9	1401.5	1393.9
10°	1367.3	1371.1	1385.0	1386.3	1383.8
12.5°	1355.9	1359.7	1369.8	1378.7	1381.2
15°	1333.1	1339.4	1352.1	1361.0	1357.2
17.5°	1310.3	1319.2	1330.6	1339.4	1339.4
20°	1284.9	1291.3	1305.2	1311.5	1323.0
22.5°	1255.8	1263.4	1274.8	1292.5	1298.9
25°	1234.2	1230.4	1246.9	1264.7	1272.3
27.5°	1191.2	1196.2	1219.0	1235.5	1241.9
30°	1164.6	1167.1	1179.8	1202.6	1210.2
32.5°	1117.7	1125.3	1148.1	1164.6	1178.5
35°	1078.4	1091.1	1108.8	1127.8	1134.1
37.5°	1044.2	1046.7	1067.0	1092.3	1097.4
40°	993.5	1008.7	1023.9	1055.6	1063.2
42.5°	954.2	961.8	983.3	1013.8	1025.2
45°	899.7	912.4	936.5	960.5	980.8
47.5°	851.6	864.2	895.9	926.3	930.1
50°	809.7	814.8	846.5	880.7	884.5
52.5°	752.7	765.4	795.8	833.8	846.5
55°	699.5	716.0	745.1	785.7	793.3
57.5°	652.6	660.2	694.4	735.0	750.2
60°	589.2	610.8	642.5	681.8	695.7
62.5°	534.8	555.0	589.2	626.0	641.2
65°	476.5	496.7	534.8	576.6	598.1
67.5°	420.7	437.2	482.8	525.9	536.0
70°	362.4	381.4	424.5	468.9	489.1
72.5°	301.6	323.1	371.3	413.1	434.6
75°	247.1	267.4	315.5	359.9	377.6
77.5°	190.1	212.9	259.8	304.1	324.4
80°	135.6	158.4	207.8	252.2	269.9
82.5°	87.4	111.5	158.4	197.7	212.9
85°	44.4	63.4	103.9	121.7	126.7
87.5°	13.9	22.8	35.5	40.6	40.6
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	16.68	18.34	17.04	18.66	18.97	17.47	19.13	17.83	19.45	19.76
	3H	18.46	19.97	18.83	20.30	20.66	19.61	21.12	19.99	21.45	21.81
	4H	19.09	20.52	19.49	20.87	21.24	20.53	21.96	20.93	22.31	22.68
	6H	19.52	20.85	19.93	21.21	21.60	21.36	22.68	21.77	23.05	23.44
	8H	19.63	20.90	20.06	21.29	21.69	21.70	22.97	22.13	23.36	23.76
	12H	19.69	20.90	20.12	21.29	21.71	21.95	23.16	22.38	23.54	23.97
4H	2H	17.45	18.88	17.85	19.22	19.60	18.06	19.49	18.46	19.84	20.21
	3H	19.46	20.66	19.87	21.06	21.46	20.45	21.65	20.86	22.05	22.45
	4H	20.22	21.31	20.65	21.72	22.16	21.54	22.63	21.97	23.04	23.47
	6H	20.77	21.73	21.22	22.16	22.62	22.53	23.49	22.99	23.93	24.38
	8H	20.92	21.82	21.38	22.26	22.73	22.96	23.86	23.42	24.30	24.76
	12H	21.01	21.82	21.49	22.29	22.76	23.27	24.08	23.75	24.56	25.02
8H	4H	20.70	21.60	21.16	22.04	22.50	21.84	22.74	22.30	23.18	23.65
	6H	21.39	22.14	21.88	22.63	23.10	23.01	23.76	23.50	24.24	24.72
	8H	21.62	22.29	22.12	22.80	23.28	23.55	24.23	24.06	24.73	25.21
	12H	21.76	22.36	22.27	22.85	23.41	23.98	24.58	24.49	25.07	25.63
12H	4H	20.80	21.61	21.28	22.08	22.55	21.87	22.68	22.35	23.15	23.62
	6H	21.54	22.21	22.04	22.72	23.20	23.06	23.74	23.57	24.24	24.73
	8H	21.84	22.44	22.35	22.93	23.49	23.68	24.28	24.19	24.77	25.32