

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: P1586414

Luminaire Tested: 22CZSP-43HE-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586414
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-43HE-L835-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

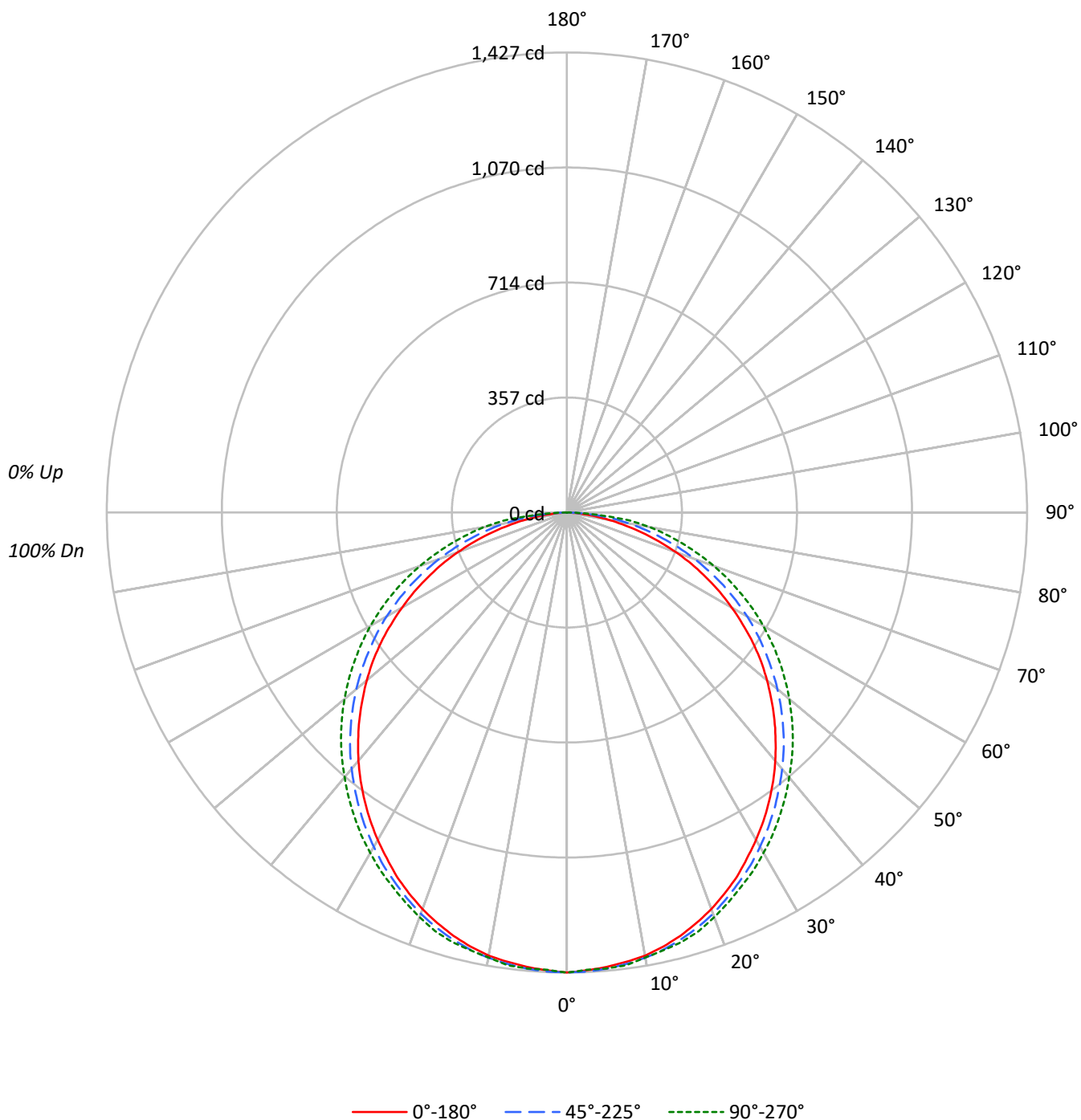
Lumens per Lamp: N/A
Luminaire Lumens: 4166.0 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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°	4468	4468	4468
5°	4448	4465	4463
10°	4438	4459	4456
15°	4407	4442	4469
20°	4362	4414	4451
25°	4308	4368	4422
30°	4241	4330	4409
35°	4179	4287	4396
40°	4110	4245	4383
45°	4032	4202	4388
50°	3945	4151	4386
55°	3843	4092	4391
60°	3698	4048	4403
65°	3529	3969	4416
70°	3290	3858	4436
75°	2930	3705	4479
80°	2424	3527	4697
85°	1577	3187	4107

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4846 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	3.2
10°-20°	386.4	9.3
20°-30°	582.8	14.0
30°-40°	702.0	16.8
40°-50°	733.1	17.6
50°-60°	673.3	16.2
60°-70°	530.3	12.7
70°-80°	325.3	7.8
80°-90°	97.9	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°	1104.2	26.5
0°-40°	1806.1	43.4
0°-60°	3212.5	77.1
0°-90°	4166.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4166.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1427	1427	1427	1427	1427	
5°	1415	1417	1421	1425	1420	134
15°	1359	1362	1370	1378	1378	383
25°	1247	1250	1264	1280	1280	574
35°	1093	1099	1122	1144	1150	684
45°	910	920	949	982	991	702
55°	704	717	750	792	804	628
65°	476	493	536	580	596	471
75°	242	261	306	355	370	257
85°	44	60	89	112	114	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1427.0	1427.0	1427.0	1427.0	1427.0
2.5°	1421.5	1424.2	1425.1	1426.1	1419.7
5°	1415.1	1416.9	1420.6	1425.1	1419.7
7.5°	1405.9	1407.8	1412.3	1418.7	1416.0
10°	1395.9	1396.8	1402.3	1406.9	1401.4
12.5°	1379.4	1382.2	1388.6	1392.2	1390.4
15°	1359.3	1362.1	1370.3	1378.5	1378.5
17.5°	1335.6	1339.2	1349.3	1360.2	1361.1
20°	1309.0	1311.8	1324.6	1335.6	1335.6
22.5°	1278.9	1282.5	1295.3	1307.2	1309.0
25°	1246.9	1249.6	1264.3	1279.8	1279.8
27.5°	1209.4	1214.9	1233.2	1248.7	1252.4
30°	1172.8	1177.4	1197.5	1216.7	1219.5
32.5°	1134.4	1139.9	1161.0	1182.0	1186.5
35°	1093.3	1098.8	1121.6	1144.5	1150.0
37.5°	1050.3	1056.7	1080.5	1107.0	1112.5
40°	1005.5	1012.9	1038.5	1066.8	1072.3
42.5°	958.0	968.1	995.5	1024.7	1033.0
45°	910.5	920.5	948.9	981.8	990.9
47.5°	860.2	872.1	901.3	936.1	946.1
50°	809.9	821.8	852.0	889.5	900.4
52.5°	758.7	770.6	801.7	841.0	852.9
55°	703.9	716.7	749.6	791.6	804.4
57.5°	647.2	663.7	698.4	741.4	754.2
60°	590.5	607.0	646.3	688.3	703.0
62.5°	534.8	550.3	590.5	635.3	650.9
65°	476.3	492.7	535.7	580.5	596.0
67.5°	418.7	435.1	478.1	524.7	541.2
70°	359.3	377.5	421.4	468.0	484.5
72.5°	299.8	319.0	363.8	411.4	426.9
75°	242.2	261.4	306.2	354.7	370.2
77.5°	185.6	206.6	250.5	299.8	314.5
80°	134.4	154.5	195.6	244.1	260.5
82.5°	85.9	103.3	144.4	190.1	202.0
85°	43.9	60.3	88.7	112.4	114.3
87.5°	13.7	19.2	29.3	43.9	44.8
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	17.51	19.17	17.87	19.49	19.80
	3H	18.43	19.94	18.81	20.27	20.63	19.63	21.13	20.00	21.46	21.82
	4H	19.05	20.48	19.45	20.82	21.20	20.51	21.94	20.91	22.28	22.66
	6H	19.46	20.79	19.87	21.15	21.54	21.30	22.62	21.71	22.98	23.37
	8H	19.57	20.83	20.00	21.22	21.62	21.62	22.88	22.04	23.27	23.67
	12H	19.62	20.83	20.05	21.22	21.64	21.83	23.04	22.26	23.42	23.85
4H	2H	17.45	18.87	17.85	19.22	19.60	18.10	19.52	18.50	19.87	20.24
	3H	19.43	20.63	19.84	21.02	21.42	20.45	21.65	20.86	22.05	22.45
	4H	20.16	21.25	20.60	21.66	22.10	21.50	22.59	21.93	23.00	23.44
	6H	20.69	21.65	21.15	22.09	22.54	22.46	23.41	22.91	23.85	24.30
	8H	20.84	21.73	21.30	22.17	22.64	22.85	23.75	23.31	24.19	24.65
	12H	20.92	21.73	21.40	22.20	22.67	23.13	23.93	23.61	24.41	24.88
8H	4H	20.62	21.52	21.08	21.96	22.42	21.79	22.69	22.25	23.13	23.59
	6H	21.29	22.03	21.78	22.52	22.99	22.91	23.65	23.40	24.14	24.61
	8H	21.50	22.16	22.00	22.67	23.15	23.42	24.09	23.92	24.59	25.07
	12H	21.64	22.23	22.14	22.72	23.28	23.80	24.39	24.31	24.88	25.44
12H	4H	20.71	21.52	21.19	21.99	22.46	21.82	22.62	22.30	23.10	23.56
	6H	21.42	22.09	21.92	22.59	23.08	22.95	23.62	23.46	24.13	24.61
	8H	21.70	22.29	22.20	22.78	23.34	23.53	24.12	24.04	24.61	25.17