

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: P1587693

Luminaire Tested: 22CZSP-SB-43HE-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587693
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-43HE-L830
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

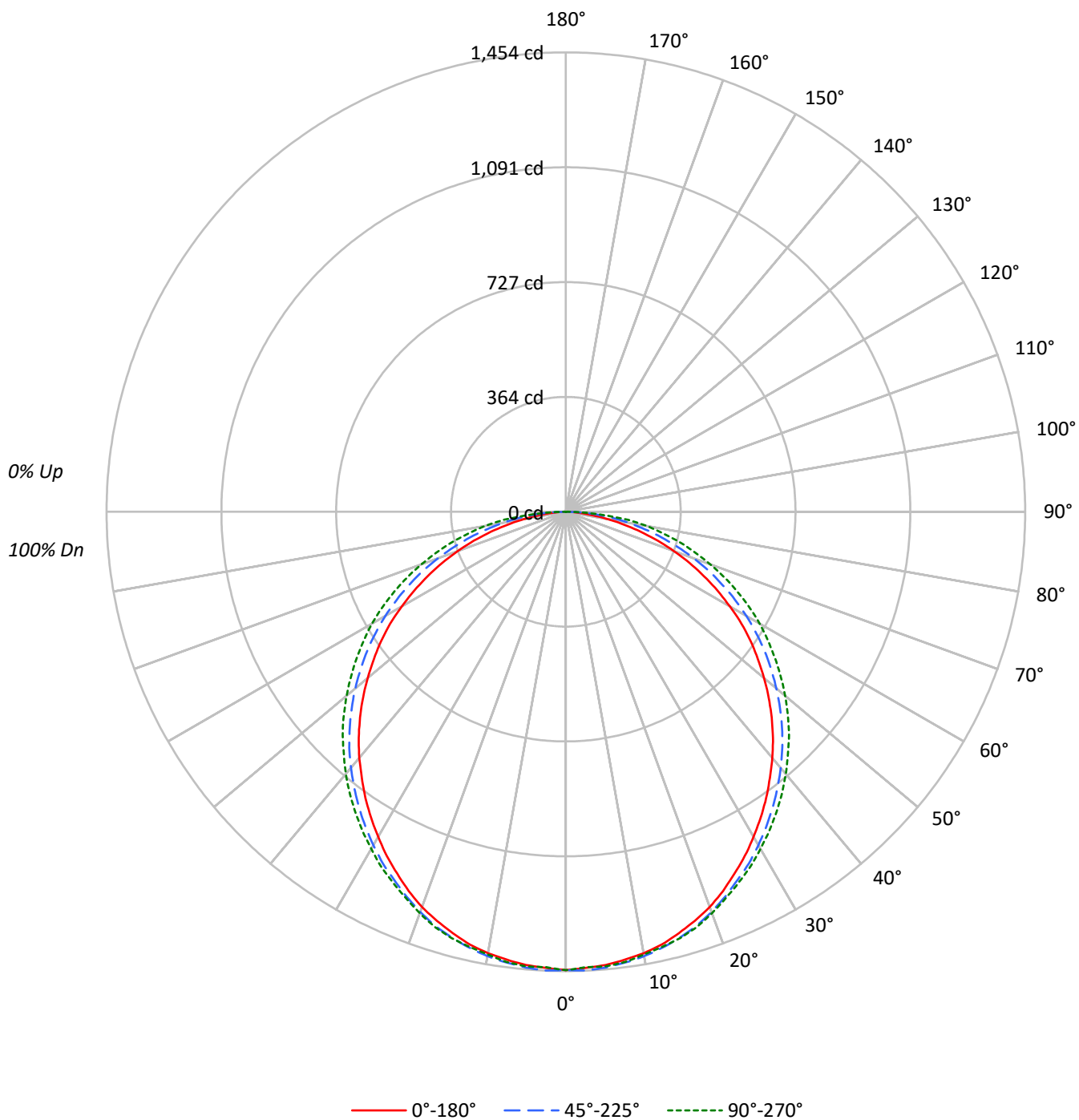
Lumens per Lamp: N/A
Luminaire Lumens: 4234.0 lumens
Efficiency: N/A
Efficacy: 150.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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
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	63	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°	4543	4543	4543
5°	4527	4552	4540
10°	4511	4542	4525
15°	4477	4523	4529
20°	4437	4491	4506
25°	4365	4443	4474
30°	4297	4407	4455
35°	4227	4364	4440
40°	4158	4326	4429
45°	4079	4286	4425
50°	3990	4239	4414
55°	3899	4193	4413
60°	3754	4130	4439
65°	3579	4050	4442
70°	3339	3938	4455
75°	2970	3794	4532
80°	2440	3635	4703
85°	1610	3413	4250

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4815 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	3.2
10°-20°	392.8	9.3
20°-30°	592.1	14.0
30°-40°	713.0	16.8
40°-50°	744.9	17.6
50°-60°	684.4	16.2
60°-70°	538.9	12.7
70°-80°	330.4	7.8
80°-90°	100.2	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°	1122.2	26.5
0°-40°	1835.2	43.3
0°-60°	3264.5	77.1
0°-90°	4234.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4234.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1451	1451	1451	1451	1451	
5°	1440	1443	1448	1446	1444	137
15°	1381	1386	1395	1401	1397	390
25°	1264	1272	1286	1299	1295	582
35°	1106	1120	1142	1162	1161	692
45°	921	941	968	995	999	711
55°	714	735	768	801	808	637
65°	483	508	547	583	600	478
75°	246	274	314	351	375	261
85°	45	66	95	106	118	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1450.8	1450.8	1450.8	1450.8	1450.8
2.5°	1445.4	1449.0	1453.5	1446.3	1442.8
5°	1440.1	1442.8	1448.1	1446.3	1444.5
7.5°	1430.2	1432.0	1439.2	1439.2	1437.4
10°	1418.6	1422.1	1428.4	1427.5	1423.0
12.5°	1403.3	1406.0	1413.2	1413.2	1410.5
15°	1380.9	1386.3	1395.3	1400.6	1397.1
17.5°	1357.6	1363.0	1374.7	1380.0	1378.2
20°	1331.6	1336.1	1347.8	1355.8	1352.2
22.5°	1299.4	1304.8	1318.2	1327.2	1323.6
25°	1263.5	1271.6	1285.9	1299.4	1294.9
27.5°	1227.7	1236.6	1254.6	1268.0	1266.2
30°	1188.3	1199.9	1218.7	1235.8	1232.2
32.5°	1147.9	1161.4	1181.1	1199.0	1198.1
35°	1105.8	1120.2	1141.7	1162.3	1161.4
37.5°	1061.0	1078.0	1100.4	1122.8	1123.7
40°	1017.1	1033.2	1058.3	1082.5	1083.4
42.5°	970.5	987.5	1014.4	1039.5	1040.4
45°	921.2	940.9	967.8	994.7	999.2
47.5°	871.0	891.6	919.4	948.1	953.5
50°	819.1	840.6	870.1	900.6	906.0
52.5°	766.2	788.6	819.1	849.5	857.6
55°	714.2	734.8	768.0	801.1	808.3
57.5°	659.5	678.4	714.2	749.2	758.1
60°	599.5	622.8	659.5	694.5	708.8
62.5°	541.3	566.3	604.0	638.9	655.1
65°	483.0	508.1	546.6	583.4	599.5
67.5°	423.9	449.9	491.1	526.0	543.9
70°	364.7	390.7	430.1	467.8	486.6
72.5°	305.6	333.4	371.9	410.4	429.2
75°	245.5	274.2	313.6	351.3	374.6
77.5°	189.1	216.9	256.3	294.8	314.5
80°	135.3	163.1	201.6	240.2	260.8
82.5°	86.0	112.0	149.7	181.9	200.7
85°	44.8	66.3	95.0	105.7	118.3
87.5°	13.4	26.0	36.7	41.2	51.1
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	16.77	18.43	17.14	18.75	19.06	17.52	19.18	17.88	19.50	19.81
	3H	18.53	20.04	18.91	20.37	20.73	19.61	21.12	19.99	21.45	21.81
	4H	19.16	20.58	19.56	20.93	21.30	20.50	21.92	20.90	22.27	22.64
	6H	19.57	20.89	19.98	21.26	21.65	21.27	22.59	21.68	22.95	23.34
	8H	19.68	20.94	20.10	21.33	21.73	21.58	22.84	22.00	23.23	23.63
	12H	19.73	20.94	20.16	21.32	21.75	21.79	23.00	22.22	23.38	23.81
4H	2H	17.54	18.97	17.94	19.31	19.69	18.12	19.54	18.52	19.89	20.27
	3H	19.54	20.73	19.94	21.13	21.53	20.45	21.65	20.86	22.05	22.44
	4H	20.29	21.38	20.72	21.79	22.22	21.49	22.57	21.92	22.98	23.42
	6H	20.83	21.78	21.28	22.22	22.67	22.42	23.37	22.87	23.81	24.26
	8H	20.97	21.87	21.43	22.31	22.77	22.80	23.69	23.26	24.13	24.60
	12H	21.06	21.86	21.54	22.34	22.81	23.08	23.88	23.55	24.35	24.82
8H	4H	20.74	21.63	21.20	22.08	22.54	21.79	22.68	22.24	23.12	23.58
	6H	21.42	22.16	21.91	22.65	23.12	22.87	23.61	23.36	24.10	24.57
	8H	21.64	22.31	22.15	22.81	23.30	23.36	24.03	23.86	24.53	25.02
	12H	21.79	22.38	22.29	22.87	23.43	23.73	24.32	24.24	24.81	25.37
12H	4H	20.83	21.63	21.30	22.10	22.57	21.81	22.62	22.29	23.09	23.56
	6H	21.55	22.22	22.05	22.72	23.21	22.92	23.59	23.43	24.10	24.58
	8H	21.84	22.43	22.34	22.92	23.48	23.48	24.07	23.98	24.56	25.12