

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: P1587692

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-43HE-L830-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

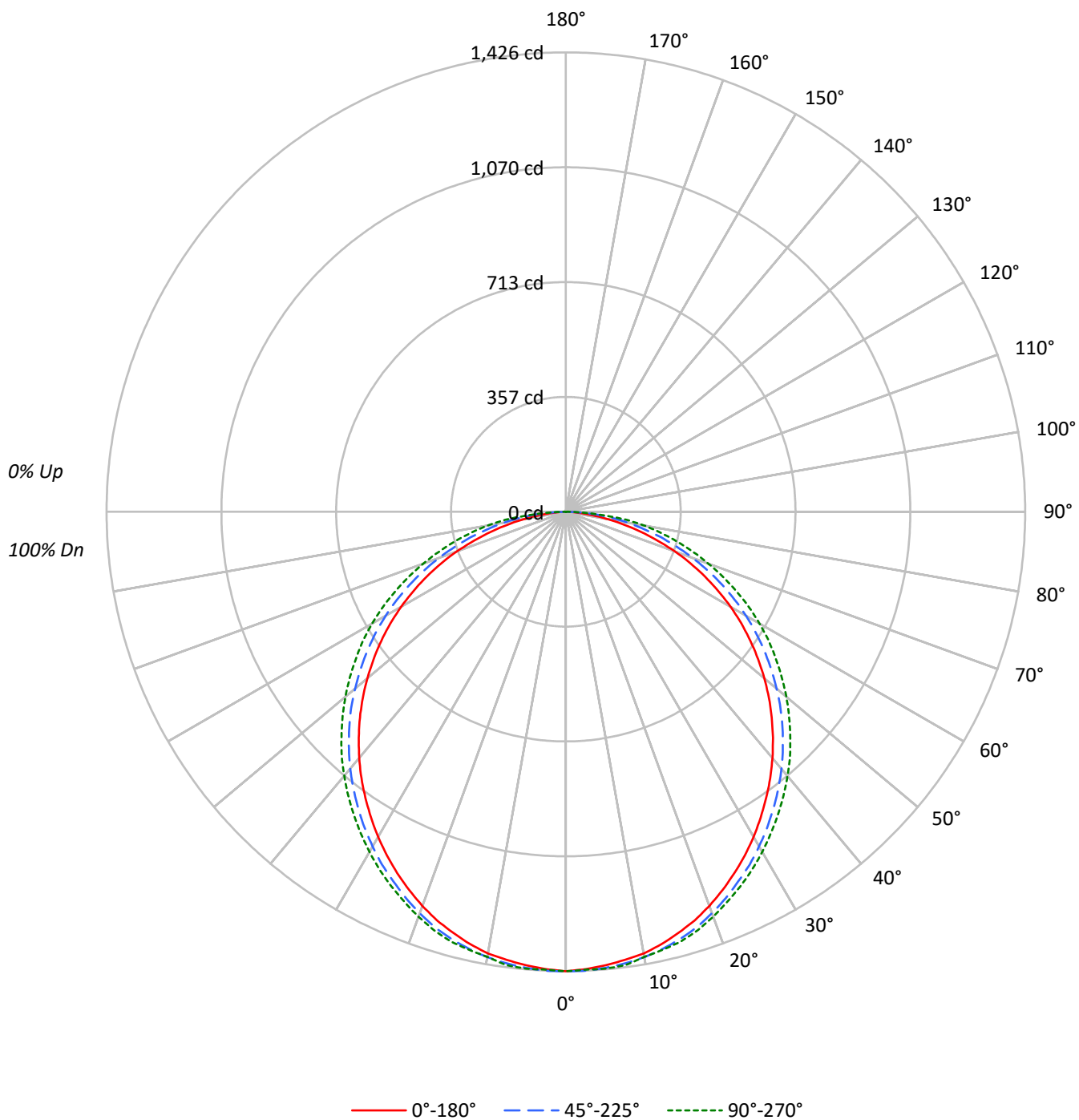
Lumens per Lamp: N/A
Luminaire Lumens: 4149.0 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	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	94	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	69
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53		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	45	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4466	4466	4466
5°	4441	4466	4475
10°	4427	4464	4461
15°	4386	4450	4476
20°	4339	4420	4458
25°	4277	4376	4431
30°	4215	4337	4408
35°	4145	4296	4388
40°	4079	4258	4375
45°	4004	4214	4364
50°	3918	4161	4352
55°	3820	4108	4346
60°	3701	4047	4349
65°	3531	3961	4325
70°	3301	3841	4315
75°	2927	3692	4330
80°	2382	3509	4458
85°	1538	3237	3848

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4517 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	3.3
10°-20°	386.5	9.3
20°-30°	582.8	14.0
30°-40°	701.2	16.9
40°-50°	731.4	17.6
50°-60°	670.4	16.2
60°-70°	526.5	12.7
70°-80°	320.4	7.7
80°-90°	94.8	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°	1104.3	26.6
0°-40°	1805.5	43.5
0°-60°	3207.3	77.3
0°-90°	4149.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1426	1426	1426	1426	1426	
5°	1413	1422	1421	1419	1424	134
15°	1353	1366	1373	1374	1381	382
25°	1238	1255	1266	1275	1283	570
35°	1084	1101	1124	1140	1148	679
45°	904	923	952	974	985	697
55°	700	718	752	783	796	625
65°	477	494	535	570	584	471
75°	242	264	305	342	358	256
85°	43	61	90	101	107	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1426.3	1426.3	1426.3	1426.3	1426.3
2.5°	1420.9	1428.1	1426.3	1420.0	1422.7
5°	1412.9	1421.8	1420.9	1419.1	1423.6
7.5°	1403.1	1412.9	1413.8	1413.8	1419.1
10°	1392.4	1402.2	1404.0	1401.3	1403.1
12.5°	1374.5	1386.1	1389.7	1389.7	1392.4
15°	1353.1	1366.5	1372.7	1374.5	1380.8
17.5°	1329.9	1344.2	1352.2	1356.7	1362.0
20°	1302.2	1317.4	1326.3	1331.7	1337.9
22.5°	1271.0	1287.9	1297.8	1303.1	1310.3
25°	1238.0	1254.9	1266.5	1274.6	1282.6
27.5°	1203.1	1219.2	1235.3	1245.1	1252.2
30°	1165.7	1182.6	1199.6	1212.1	1219.2
32.5°	1125.5	1143.3	1163.0	1176.4	1184.4
35°	1084.4	1101.4	1123.7	1139.8	1147.8
37.5°	1042.5	1060.3	1083.5	1100.5	1110.3
40°	997.9	1016.6	1041.6	1060.3	1070.2
42.5°	951.5	969.3	997.0	1018.4	1030.0
45°	904.1	922.9	951.5	973.8	985.4
47.5°	855.1	872.9	904.1	930.0	939.8
50°	804.2	821.1	854.2	881.8	893.4
52.5°	752.4	770.3	803.3	832.7	845.2
55°	699.8	717.6	752.4	782.8	796.1
57.5°	646.2	664.1	699.8	731.0	747.1
60°	590.9	608.7	646.2	678.3	694.4
62.5°	533.7	552.5	590.9	623.9	640.8
65°	476.6	494.5	534.6	570.3	583.7
67.5°	419.5	437.3	476.6	512.3	528.4
70°	360.6	381.1	419.5	457.0	471.3
72.5°	299.0	322.2	360.6	399.9	414.1
75°	241.9	264.2	305.2	341.8	357.9
77.5°	185.6	209.7	248.1	285.6	301.7
80°	132.1	155.3	194.6	230.3	247.2
82.5°	83.9	104.4	143.7	175.8	188.3
85°	42.8	60.7	90.1	100.9	107.1
87.5°	12.5	21.4	32.1	40.2	44.6
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	16.70	18.36	17.06	18.67	18.99	17.43	19.09	17.80	19.41	19.72
	3H	18.47	19.97	18.84	20.30	20.66	19.51	21.02	19.89	21.34	21.70
	4H	19.09	20.51	19.48	20.85	21.23	20.38	21.80	20.78	22.15	22.52
	6H	19.50	20.81	19.91	21.18	21.57	21.12	22.44	21.53	22.80	23.19
	8H	19.60	20.86	20.02	21.25	21.65	21.42	22.68	21.84	23.07	23.46
	12H	19.65	20.85	20.08	21.24	21.66	21.61	22.82	22.04	23.20	23.63
4H	2H	17.47	18.89	17.87	19.23	19.61	18.04	19.46	18.44	19.81	20.18
	3H	19.46	20.65	19.87	21.05	21.45	20.35	21.55	20.76	21.94	22.34
	4H	20.20	21.28	20.63	21.70	22.13	21.37	22.45	21.80	22.87	23.30
	6H	20.73	21.68	21.18	22.12	22.57	22.28	23.23	22.73	23.66	24.12
	8H	20.87	21.76	21.33	22.20	22.67	22.64	23.53	23.10	23.97	24.44
	12H	20.95	21.75	21.43	22.23	22.70	22.90	23.70	23.38	24.17	24.64
8H	4H	20.65	21.54	21.11	21.98	22.44	21.67	22.56	22.13	23.00	23.46
	6H	21.31	22.05	21.80	22.54	23.01	22.73	23.47	23.22	23.95	24.43
	8H	21.52	22.18	22.03	22.69	23.17	23.20	23.86	23.70	24.37	24.85
	12H	21.66	22.25	22.16	22.73	23.29	23.55	24.14	24.05	24.63	25.19
12H	4H	20.73	21.53	21.21	22.00	22.47	21.69	22.49	22.17	22.97	23.44
	6H	21.43	22.10	21.94	22.61	23.09	22.78	23.44	23.28	23.95	24.43
	8H	21.71	22.30	22.22	22.79	23.35	23.31	23.90	23.82	24.39	24.95