

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: P1587706

Luminaire Tested: 22CZSP-SB-43HE-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587706
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-L940-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

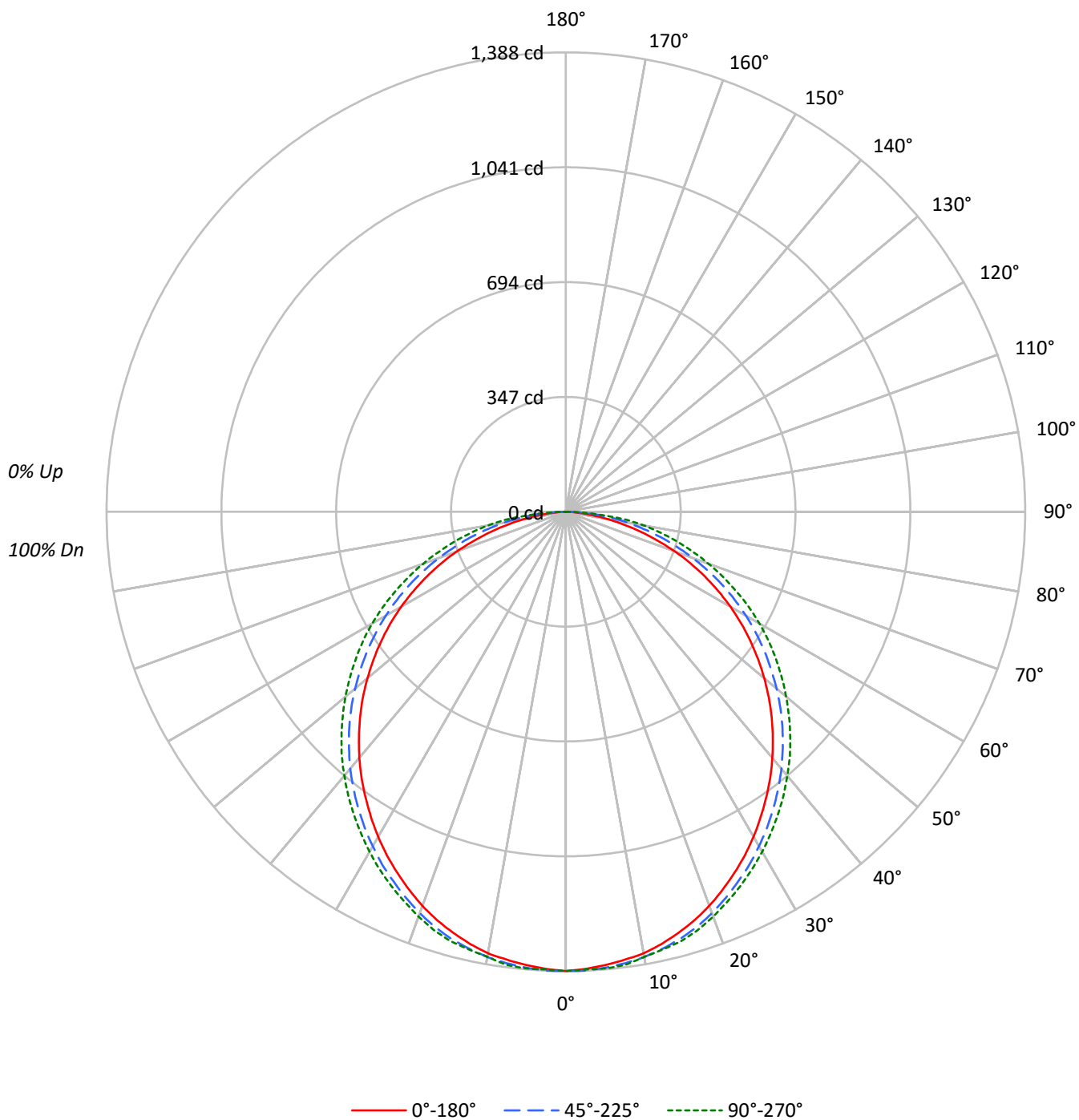
Lumens per Lamp: N/A
Luminaire Lumens: 4037.0 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	4346	4346	4346
5°	4321	4346	4354
10°	4308	4344	4341
15°	4268	4330	4355
20°	4222	4300	4338
25°	4162	4258	4312
30°	4101	4220	4289
35°	4034	4180	4269
40°	3969	4143	4256
45°	3896	4100	4246
50°	3812	4049	4235
55°	3717	3997	4229
60°	3600	3938	4232
65°	3436	3854	4209
70°	3213	3737	4198
75°	2847	3593	4213
80°	2317	3414	4339
85°	1498	3151	3744

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4395 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	3.3
10°-20°	376.1	9.3
20°-30°	567.0	14.0
30°-40°	682.3	16.9
40°-50°	711.7	17.6
50°-60°	652.3	16.2
60°-70°	512.2	12.7
70°-80°	311.8	7.7
80°-90°	92.2	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°	1074.4	26.6
0°-40°	1756.7	43.5
0°-60°	3120.8	77.3
0°-90°	4037.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4037.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1388	1388	1388	1388	1388	
5°	1375	1383	1383	1381	1385	131
15°	1317	1330	1336	1337	1344	371
25°	1204	1221	1232	1240	1248	555
35°	1055	1072	1093	1109	1117	660
45°	880	898	926	948	959	678
55°	681	698	732	762	775	608
65°	464	481	520	555	568	459
75°	235	257	297	333	348	249
85°	42	59	88	98	104	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1387.8	1387.8	1387.8	1387.8	1387.8
2.5°	1382.6	1389.5	1387.8	1381.7	1384.3
5°	1374.8	1383.4	1382.6	1380.8	1385.2
7.5°	1365.2	1374.8	1375.6	1375.6	1380.8
10°	1354.8	1364.3	1366.1	1363.5	1365.2
12.5°	1337.4	1348.7	1352.2	1352.2	1354.8
15°	1316.6	1329.6	1335.7	1337.4	1343.5
17.5°	1294.0	1307.9	1315.7	1320.0	1325.3
20°	1267.1	1281.8	1290.5	1295.7	1301.8
22.5°	1236.7	1253.2	1262.7	1267.9	1274.9
25°	1204.5	1221.0	1232.3	1240.1	1248.0
27.5°	1170.7	1186.3	1201.9	1211.5	1218.4
30°	1134.2	1150.7	1167.2	1179.4	1186.3
32.5°	1095.1	1112.5	1131.6	1144.6	1152.4
35°	1055.2	1071.7	1093.4	1109.0	1116.8
37.5°	1014.3	1031.7	1054.3	1070.8	1080.3
40°	970.9	989.2	1013.5	1031.7	1041.3
42.5°	925.8	943.1	970.1	990.9	1002.2
45°	879.7	898.0	925.8	947.5	958.8
47.5°	832.0	849.3	879.7	904.9	914.5
50°	782.5	799.0	831.1	858.0	869.3
52.5°	732.1	749.5	781.6	810.3	822.4
55°	680.9	698.2	732.1	761.6	774.7
57.5°	628.8	646.1	680.9	711.3	726.9
60°	574.9	592.3	628.8	660.0	675.7
62.5°	519.3	537.6	574.9	607.0	623.5
65°	463.8	481.1	520.2	554.9	568.0
67.5°	408.2	425.5	463.8	498.5	514.1
70°	350.9	370.8	408.2	444.6	458.5
72.5°	290.9	313.5	350.9	389.1	403.0
75°	235.3	257.1	297.0	332.6	348.2
77.5°	180.6	204.1	241.4	277.9	293.5
80°	128.5	151.1	189.3	224.1	240.6
82.5°	81.6	101.6	139.8	171.1	183.2
85°	41.7	59.1	87.7	98.1	104.2
87.5°	12.2	20.8	31.3	39.1	43.4
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	16.60	18.26	16.97	18.58	18.89	17.34	19.00	17.70	19.31	19.63
	3H	18.37	19.88	18.75	20.20	20.56	19.42	20.92	19.79	21.25	21.61
	4H	18.99	20.41	19.39	20.76	21.13	20.28	21.70	20.68	22.05	22.43
	6H	19.40	20.72	19.81	21.08	21.47	21.03	22.35	21.44	22.71	23.10
	8H	19.50	20.76	19.93	21.15	21.55	21.32	22.58	21.75	22.97	23.37
	12H	19.55	20.76	19.98	21.14	21.57	21.52	22.72	21.95	23.11	23.53
4H	2H	17.37	18.79	17.77	19.14	19.51	17.94	19.36	18.34	19.71	20.09
	3H	19.36	20.56	19.77	20.96	21.35	20.26	21.45	20.67	21.85	22.25
	4H	20.11	21.19	20.54	21.60	22.04	21.28	22.36	21.71	22.77	23.21
	6H	20.63	21.58	21.09	22.02	22.48	22.18	23.13	22.63	23.57	24.02
	8H	20.78	21.67	21.24	22.11	22.57	22.55	23.44	23.01	23.88	24.34
	12H	20.86	21.66	21.34	22.13	22.60	22.80	23.60	23.28	24.08	24.55
8H	4H	20.55	21.44	21.01	21.88	22.35	21.57	22.46	22.03	22.90	23.37
	6H	21.21	21.96	21.71	22.44	22.92	22.63	23.37	23.12	23.86	24.33
	8H	21.42	22.09	21.93	22.59	23.08	23.10	23.77	23.61	24.27	24.76
	12H	21.56	22.15	22.07	22.64	23.20	23.45	24.04	23.96	24.53	25.09
12H	4H	20.63	21.43	21.11	21.91	22.38	21.60	22.40	22.08	22.87	23.34
	6H	21.34	22.01	21.85	22.51	23.00	22.68	23.35	23.19	23.85	24.34
	8H	21.62	22.21	22.12	22.69	23.25	23.22	23.81	23.72	24.30	24.86