

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: P1587687

Luminaire Tested: 22CZSP-SB-42-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587687
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-42-L940
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

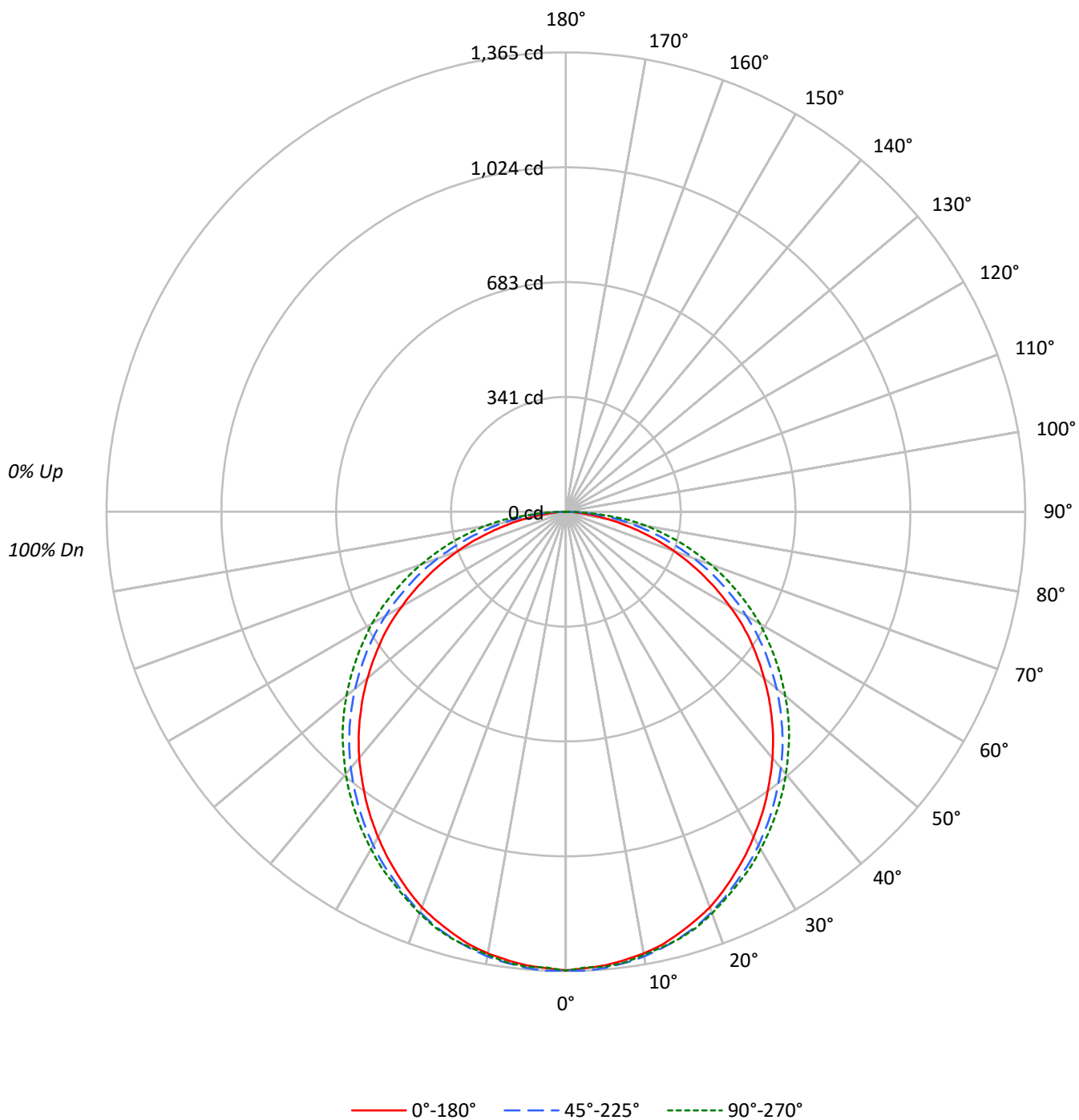
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3977.0 lumens
Efficiency: N/A
Efficacy: 137.6 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): 28.9
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	93	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	68
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		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	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4267	4267	4267
5°	4252	4275	4265
10°	4237	4266	4250
15°	4205	4249	4254
20°	4168	4219	4233
25°	4100	4173	4202
30°	4036	4139	4185
35°	3971	4099	4170
40°	3905	4064	4160
45°	3832	4026	4156
50°	3748	3981	4146
55°	3663	3938	4145
60°	3526	3880	4170
65°	3362	3805	4172
70°	3137	3699	4185
75°	2790	3564	4256
80°	2292	3415	4416
85°	1513	3205	3992

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4522 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.9	3.2
10°-20°	369.0	9.3
20°-30°	556.1	14.0
30°-40°	669.7	16.8
40°-50°	699.7	17.6
50°-60°	642.8	16.2
60°-70°	506.2	12.7
70°-80°	310.4	7.8
80°-90°	94.1	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°	1054.0	26.5
0°-40°	1723.8	43.3
0°-60°	3066.3	77.1
0°-90°	3977.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3977.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1363	1363	1363	1363	1363	
5°	1353	1355	1360	1359	1357	128
15°	1297	1302	1311	1316	1312	366
25°	1187	1194	1208	1220	1216	547
35°	1039	1052	1072	1092	1091	650
45°	865	884	909	934	938	667
55°	671	690	721	752	759	599
65°	454	477	514	548	563	449
75°	231	258	295	330	352	245
85°	42	62	89	99	111	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1362.8	1362.8	1362.8	1362.8	1362.8
2.5°	1357.7	1361.1	1365.3	1358.6	1355.2
5°	1352.7	1355.2	1360.2	1358.6	1356.9
7.5°	1343.4	1345.1	1351.8	1351.8	1350.1
10°	1332.5	1335.8	1341.7	1340.9	1336.7
12.5°	1318.1	1320.7	1327.4	1327.4	1324.9
15°	1297.1	1302.2	1310.6	1315.6	1312.3
17.5°	1275.2	1280.3	1291.2	1296.3	1294.6
20°	1250.8	1255.0	1266.0	1273.5	1270.2
22.5°	1220.5	1225.6	1238.2	1246.6	1243.2
25°	1186.8	1194.4	1207.9	1220.5	1216.3
27.5°	1153.2	1161.6	1178.4	1191.0	1189.4
30°	1116.1	1127.1	1144.8	1160.7	1157.4
32.5°	1078.3	1090.9	1109.4	1126.2	1125.4
35°	1038.7	1052.2	1072.4	1091.7	1090.9
37.5°	996.6	1012.6	1033.6	1054.7	1055.5
40°	955.4	970.5	994.1	1016.8	1017.6
42.5°	911.6	927.6	952.8	976.4	977.2
45°	865.3	883.8	909.1	934.3	938.5
47.5°	818.2	837.5	863.6	890.5	895.6
50°	769.3	789.5	817.3	845.9	851.0
52.5°	719.7	740.7	769.3	798.0	805.5
55°	670.9	690.2	721.4	752.5	759.2
57.5°	619.5	637.2	670.9	703.7	712.1
60°	563.1	585.0	619.5	652.3	665.8
62.5°	508.4	532.0	567.3	600.2	615.3
65°	453.7	477.3	513.5	548.0	563.1
67.5°	398.1	422.5	461.3	494.1	510.9
70°	342.6	367.0	404.0	439.4	457.1
72.5°	287.0	313.1	349.3	385.5	403.2
75°	230.6	257.6	294.6	330.0	351.8
77.5°	177.6	203.7	240.7	276.9	295.4
80°	127.1	153.2	189.4	225.6	244.9
82.5°	80.8	105.2	140.6	170.9	188.5
85°	42.1	62.3	89.2	99.3	111.1
87.5°	12.6	24.4	34.5	38.7	48.0
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	16.55	18.22	16.92	18.53	18.85	17.30	18.96	17.67	19.28	19.59
	3H	18.32	19.82	18.69	20.15	20.51	19.40	20.90	19.77	21.23	21.59
	4H	18.94	20.36	19.34	20.71	21.09	20.28	21.70	20.68	22.05	22.43
	6H	19.35	20.67	19.76	21.04	21.43	21.05	22.37	21.46	22.73	23.12
	8H	19.46	20.72	19.88	21.11	21.51	21.36	22.62	21.78	23.01	23.41
	12H	19.51	20.72	19.94	21.10	21.53	21.57	22.78	22.00	23.16	23.59
4H	2H	17.33	18.75	17.72	19.09	19.47	17.90	19.33	18.30	19.67	20.05
	3H	19.32	20.52	19.73	20.91	21.31	20.23	21.43	20.64	21.83	22.23
	4H	20.07	21.16	20.50	21.57	22.01	21.27	22.35	21.70	22.77	23.20
	6H	20.61	21.56	21.06	22.00	22.45	22.20	23.15	22.65	23.59	24.04
	8H	20.76	21.65	21.21	22.09	22.55	22.58	23.47	23.04	23.92	24.38
	12H	20.84	21.65	21.32	22.12	22.59	22.86	23.66	23.34	24.14	24.60
8H	4H	20.52	21.42	20.98	21.86	22.32	21.57	22.46	22.03	22.90	23.37
	6H	21.20	21.95	21.69	22.43	22.91	22.65	23.40	23.14	23.88	24.36
	8H	21.42	22.09	21.93	22.60	23.08	23.14	23.81	23.65	24.31	24.80
	12H	21.57	22.16	22.07	22.65	23.21	23.51	24.11	24.02	24.60	25.15
12H	4H	20.61	21.41	21.09	21.89	22.35	21.60	22.40	22.07	22.87	23.34
	6H	21.33	22.00	21.84	22.50	22.99	22.70	23.37	23.21	23.88	24.36
	8H	21.62	22.21	22.13	22.70	23.26	23.26	23.85	23.76	24.34	24.90