

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: P1587663

Luminaire Tested: 22CZSP-SB-37HE-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587663
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-37HE-L930
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 3500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

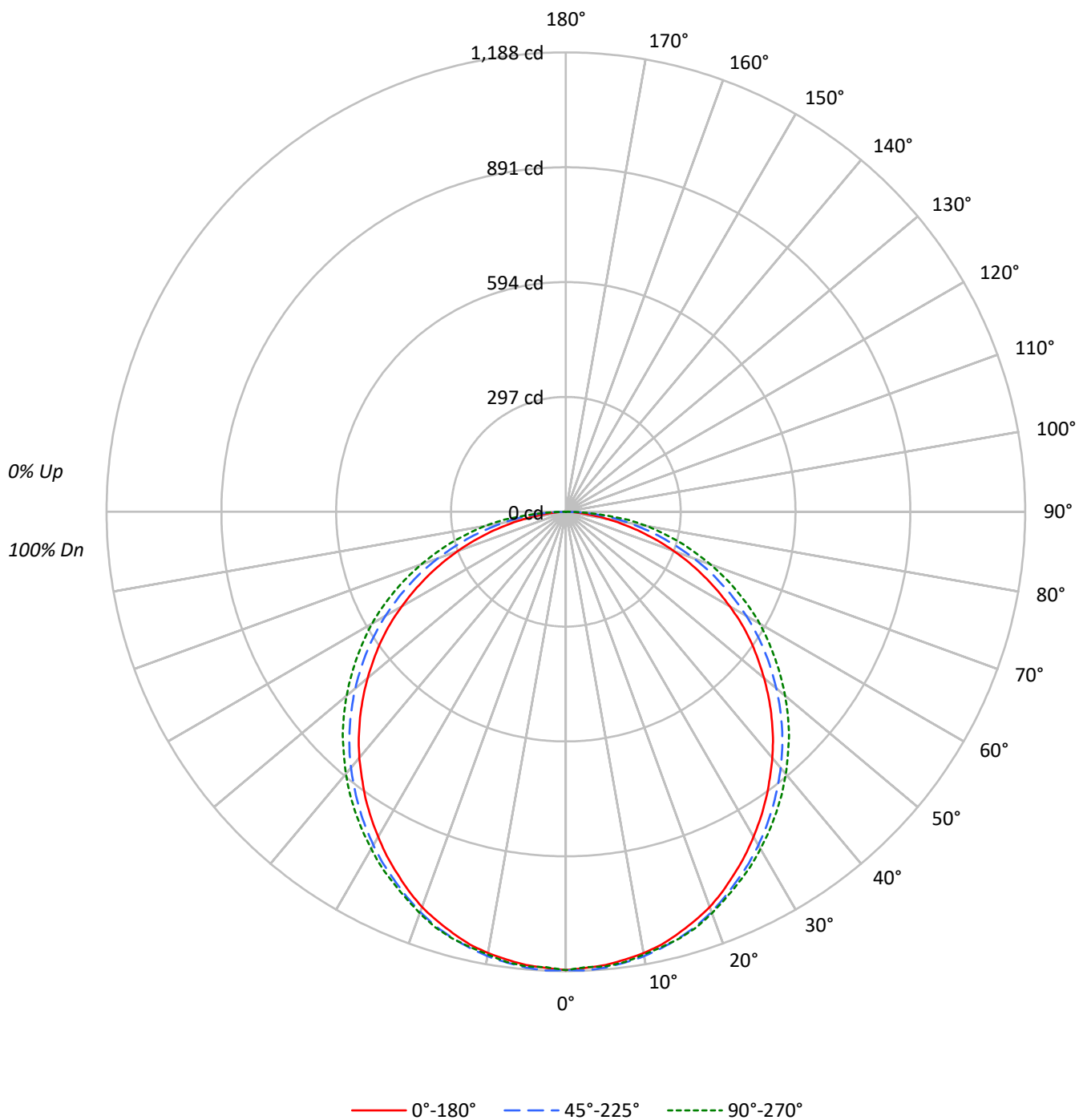
Lumens per Lamp: N/A
Luminaire Lumens: 3459.0 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.1
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°	3712	3712	3712
5°	3698	3719	3709
10°	3685	3711	3697
15°	3657	3695	3700
20°	3625	3669	3681
25°	3567	3630	3655
30°	3510	3600	3640
35°	3453	3565	3627
40°	3396	3534	3618
45°	3333	3502	3615
50°	3260	3463	3605
55°	3186	3425	3605
60°	3067	3374	3627
65°	2924	3309	3629
70°	2728	3217	3639
75°	2427	3100	3702
80°	1993	2970	3841
85°	1315	2788	3471

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3934 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	3.2
10°-20°	320.9	9.3
20°-30°	483.7	14.0
30°-40°	582.5	16.8
40°-50°	608.6	17.6
50°-60°	559.1	16.2
60°-70°	440.3	12.7
70°-80°	269.9	7.8
80°-90°	81.8	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°	916.8	26.5
0°-40°	1499.3	43.3
0°-60°	2666.9	77.1
0°-90°	3459.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3459.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1185	1185	1185	1185	1185	
5°	1176	1179	1183	1182	1180	112
15°	1128	1133	1140	1144	1141	318
25°	1032	1039	1051	1062	1058	476
35°	903	915	933	950	949	565
45°	753	769	791	813	816	580
55°	584	600	627	654	660	521
65°	395	415	447	477	490	390
75°	201	224	256	287	306	213
85°	37	54	78	86	97	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1185.3	1185.3	1185.3	1185.3	1185.3
2.5°	1180.9	1183.8	1187.5	1181.6	1178.7
5°	1176.5	1178.7	1183.1	1181.6	1180.1
7.5°	1168.4	1169.9	1175.7	1175.7	1174.3
10°	1158.9	1161.8	1167.0	1166.2	1162.6
12.5°	1146.5	1148.7	1154.5	1154.5	1152.3
15°	1128.2	1132.6	1139.9	1144.3	1141.3
17.5°	1109.1	1113.5	1123.0	1127.4	1126.0
20°	1087.9	1091.6	1101.1	1107.7	1104.7
22.5°	1061.5	1065.9	1076.9	1084.2	1081.3
25°	1032.3	1038.8	1050.6	1061.5	1057.9
27.5°	1003.0	1010.3	1024.9	1035.9	1034.4
30°	970.8	980.3	995.6	1009.6	1006.6
32.5°	937.8	948.8	964.9	979.5	978.8
35°	903.4	915.1	932.7	949.5	948.8
37.5°	866.8	880.7	899.0	917.3	918.0
40°	830.9	844.1	864.6	884.4	885.1
42.5°	792.9	806.8	828.7	849.2	850.0
45°	752.6	768.7	790.7	812.6	816.3
47.5°	711.6	728.4	751.1	774.6	778.9
50°	669.1	686.7	710.9	735.8	740.1
52.5°	625.9	644.2	669.1	694.0	700.6
55°	583.5	600.3	627.4	654.5	660.3
57.5°	538.8	554.2	583.5	612.0	619.4
60°	489.8	508.8	538.8	567.4	579.1
62.5°	442.2	462.7	493.4	522.0	535.2
65°	394.6	415.1	446.6	476.6	489.8
67.5°	346.3	367.5	401.2	429.7	444.4
70°	298.0	319.2	351.4	382.2	397.5
72.5°	249.6	272.3	303.8	335.3	350.7
75°	200.6	224.0	256.2	287.0	306.0
77.5°	154.5	177.2	209.4	240.9	257.0
80°	110.5	133.2	164.7	196.2	213.0
82.5°	70.3	91.5	122.3	148.6	164.0
85°	36.6	54.2	77.6	86.4	96.6
87.5°	11.0	21.2	30.0	33.7	41.7
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	16.07	17.73	16.43	18.05	18.36	16.82	18.48	17.18	18.79	19.11
	3H	17.83	19.34	18.21	19.67	20.03	18.91	20.42	19.29	20.75	21.10
	4H	18.46	19.88	18.85	20.23	20.60	19.80	21.22	20.19	21.57	21.94
	6H	18.87	20.19	19.28	20.55	20.94	20.56	21.88	20.97	22.25	22.64
	8H	18.98	20.24	19.40	20.63	21.02	20.87	22.14	21.30	22.53	22.92
	12H	19.03	20.24	19.46	20.62	21.05	21.09	22.30	21.52	22.68	23.11
4H	2H	16.84	18.26	17.24	18.61	18.98	17.42	18.84	17.82	19.19	19.56
	3H	18.83	20.03	19.24	20.43	20.83	19.75	20.95	20.16	21.34	21.74
	4H	19.59	20.67	20.02	21.09	21.52	20.78	21.87	21.21	22.28	22.72
	6H	20.12	21.08	20.58	21.52	21.97	21.71	22.67	22.17	23.11	23.56
	8H	20.27	21.16	20.73	21.60	22.07	22.10	22.99	22.56	23.43	23.89
	12H	20.36	21.16	20.84	21.63	22.10	22.37	23.18	22.85	23.65	24.12
8H	4H	20.04	20.93	20.50	21.37	21.84	21.08	21.97	21.54	22.42	22.88
	6H	20.72	21.46	21.21	21.95	22.42	22.17	22.91	22.66	23.40	23.87
	8H	20.94	21.61	21.44	22.11	22.60	22.65	23.32	23.16	23.83	24.31
	12H	21.08	21.68	21.59	22.17	22.73	23.03	23.62	23.53	24.11	24.67
12H	4H	20.12	20.93	20.60	21.40	21.87	21.11	21.91	21.59	22.39	22.86
	6H	20.84	21.51	21.35	22.02	22.50	22.22	22.89	22.73	23.39	23.88
	8H	21.14	21.73	21.64	22.22	22.78	22.77	23.37	23.28	23.85	24.41