

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: P1587667

Luminaire Tested: 22CZSP-SB-37HE-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587667
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-L940
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

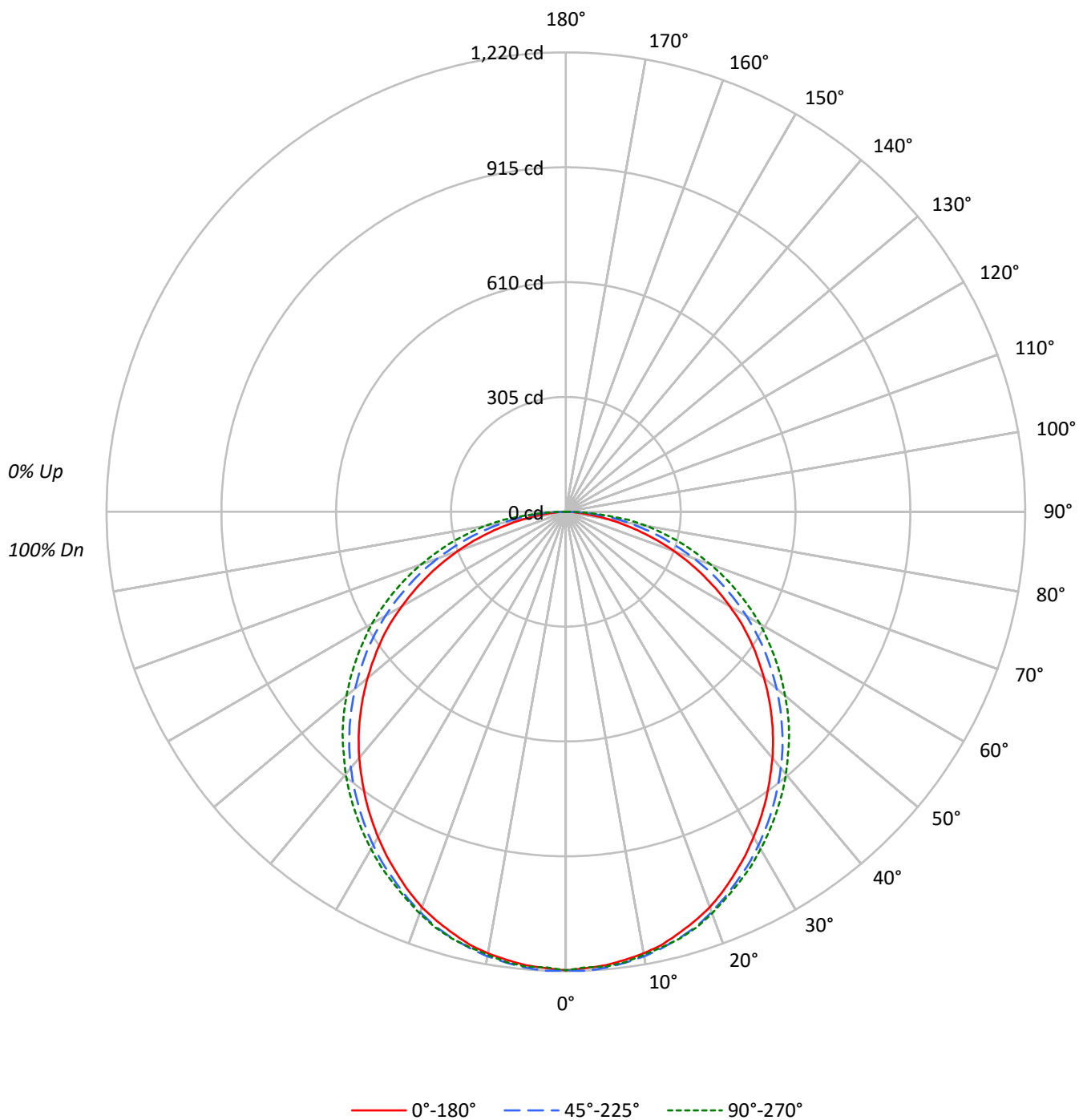
Lumens per Lamp: N/A
Luminaire Lumens: 3554.0 lumens
Efficiency: N/A
Efficacy: 147.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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			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°	3813	3813	3813
5°	3800	3821	3811
10°	3786	3812	3798
15°	3758	3797	3802
20°	3725	3770	3782
25°	3664	3729	3755
30°	3606	3699	3740
35°	3548	3663	3727
40°	3490	3631	3717
45°	3424	3598	3714
50°	3349	3558	3705
55°	3273	3519	3704
60°	3151	3467	3726
65°	3004	3399	3728
70°	2802	3306	3739
75°	2494	3186	3804
80°	2049	3051	3947
85°	1351	2863	3568

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4042 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.2	3.2
10°-20°	329.7	9.3
20°-30°	497.0	14.0
30°-40°	598.5	16.8
40°-50°	625.3	17.6
50°-60°	574.5	16.2
60°-70°	452.4	12.7
70°-80°	277.4	7.8
80°-90°	84.1	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°	941.9	26.5
0°-40°	1540.4	43.3
0°-60°	2740.2	77.1
0°-90°	3554.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3554.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1218	1218	1218	1218	1218	
5°	1209	1211	1216	1214	1212	115
15°	1159	1164	1171	1176	1173	327
25°	1061	1067	1079	1091	1087	489
35°	928	940	958	976	975	581
45°	773	790	812	835	839	596
55°	600	617	645	672	678	535
65°	405	426	459	490	503	401
75°	206	230	263	295	314	219
85°	38	56	80	89	99	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1217.8	1217.8	1217.8	1217.8	1217.8
2.5°	1213.3	1216.3	1220.1	1214.1	1211.0
5°	1208.8	1211.0	1215.6	1214.1	1212.5
7.5°	1200.5	1202.0	1208.0	1208.0	1206.5
10°	1190.7	1193.7	1199.0	1198.3	1194.5
12.5°	1177.9	1180.2	1186.2	1186.2	1184.0
15°	1159.1	1163.7	1171.2	1175.7	1172.7
17.5°	1139.6	1144.1	1153.9	1158.4	1156.9
20°	1117.8	1121.5	1131.3	1138.1	1135.1
22.5°	1090.7	1095.2	1106.5	1114.0	1111.0
25°	1060.6	1067.4	1079.4	1090.7	1086.9
27.5°	1030.5	1038.0	1053.1	1064.4	1062.9
30°	997.4	1007.2	1023.0	1037.3	1034.3
32.5°	963.6	974.9	991.4	1006.4	1005.7
35°	928.2	940.3	958.3	975.6	974.9
37.5°	890.6	904.9	923.7	942.5	943.3
40°	853.7	867.3	888.3	908.7	909.4
42.5°	814.6	828.9	851.5	872.6	873.3
45°	773.3	789.8	812.4	834.9	838.7
47.5°	731.1	748.4	771.8	795.8	800.3
50°	687.5	705.6	730.4	756.0	760.5
52.5°	643.1	661.9	687.5	713.1	719.9
55°	599.5	616.8	644.6	672.5	678.5
57.5°	553.6	569.4	599.5	628.8	636.4
60°	503.2	522.8	553.6	583.0	595.0
62.5°	454.3	475.4	507.0	536.3	549.9
65°	405.4	426.5	458.8	489.7	503.2
67.5°	355.8	377.6	412.2	441.5	456.6
70°	306.1	328.0	361.1	392.6	408.4
72.5°	256.5	279.8	312.2	344.5	360.3
75°	206.1	230.2	263.3	294.9	314.4
77.5°	158.7	182.0	215.1	247.5	264.0
80°	113.6	136.9	169.2	201.6	218.9
82.5°	72.2	94.0	125.6	152.7	168.5
85°	37.6	55.7	79.7	88.8	99.3
87.5°	11.3	21.8	30.8	34.6	42.9
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	16.16	17.83	16.53	18.14	18.45	16.91	18.57	17.27	18.89	19.20
	3H	17.93	19.43	18.30	19.76	20.12	19.01	20.51	19.38	20.84	21.20
	4H	18.55	19.97	18.95	20.32	20.70	19.89	21.31	20.29	21.66	22.03
	6H	18.96	20.28	19.37	20.65	21.04	20.66	21.98	21.07	22.34	22.73
	8H	19.07	20.33	19.49	20.72	21.12	20.97	22.23	21.39	22.62	23.02
	12H	19.12	20.33	19.55	20.71	21.14	21.18	22.39	21.61	22.77	23.20
4H	2H	16.93	18.36	17.33	18.70	19.08	17.51	18.94	17.91	19.28	19.66
	3H	18.93	20.13	19.34	20.52	20.92	19.84	21.04	20.25	21.44	21.84
	4H	19.68	20.77	20.11	21.18	21.62	20.88	21.96	21.31	22.38	22.81
	6H	20.22	21.17	20.67	21.61	22.06	21.81	22.76	22.26	23.20	23.65
	8H	20.37	21.26	20.82	21.70	22.16	22.19	23.08	22.65	23.52	23.99
	12H	20.45	21.25	20.93	21.73	22.20	22.47	23.27	22.95	23.74	24.21
8H	4H	20.13	21.03	20.59	21.47	21.93	21.18	22.07	21.64	22.51	22.97
	6H	20.81	21.56	21.30	22.04	22.52	22.26	23.01	22.75	23.49	23.97
	8H	21.03	21.70	21.54	22.20	22.69	22.75	23.42	23.26	23.92	24.41
	12H	21.18	21.77	21.68	22.26	22.82	23.12	23.72	23.63	24.21	24.76
12H	4H	20.22	21.02	20.70	21.49	21.96	21.20	22.01	21.68	22.48	22.95
	6H	20.94	21.61	21.45	22.11	22.60	22.31	22.98	22.82	23.49	23.97
	8H	21.23	21.82	21.74	22.31	22.87	22.87	23.46	23.37	23.95	24.51