

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: P1587653

Luminaire Tested: 22CZSP-SB-37HE-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587653
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-L830
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 3500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

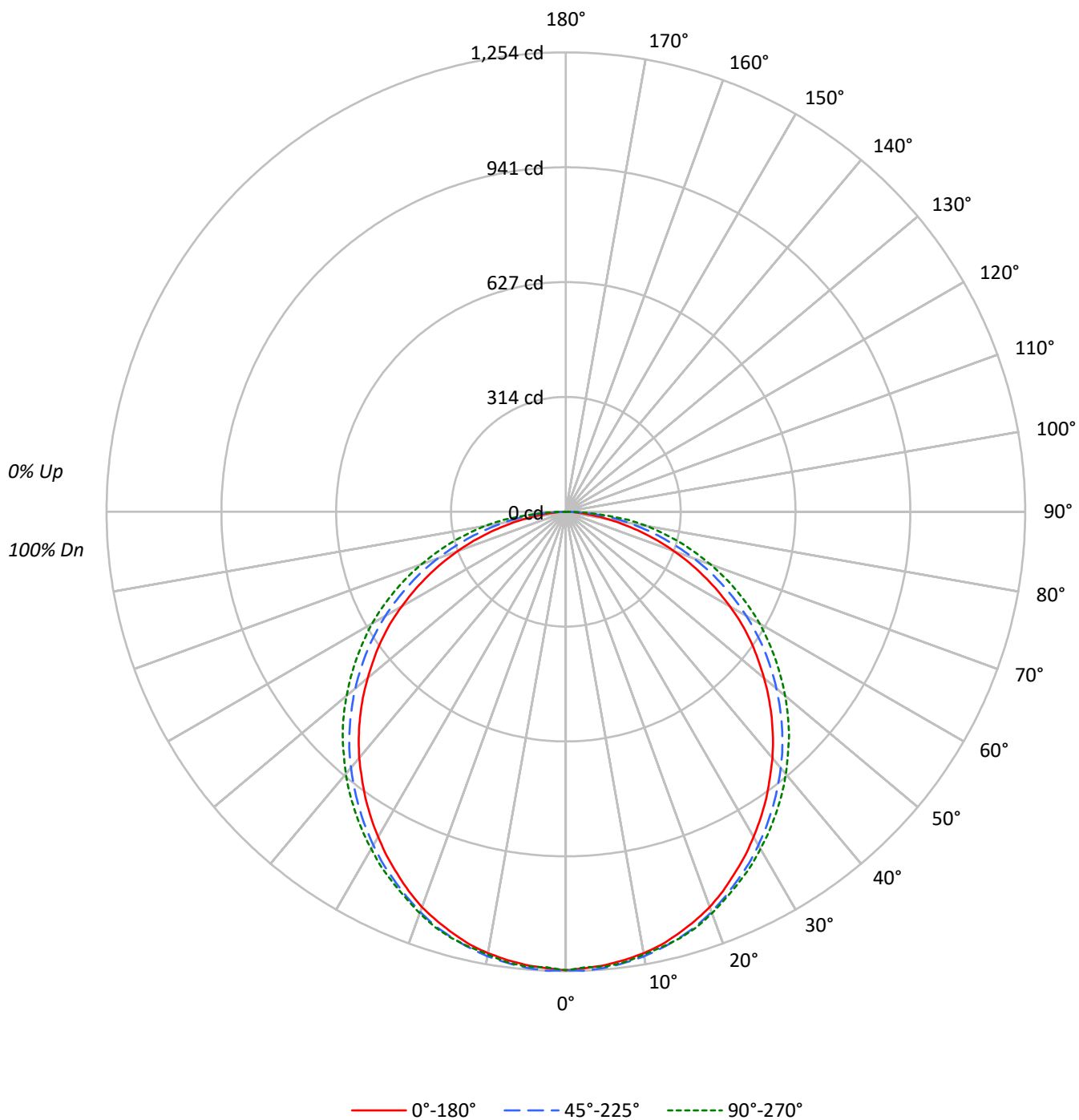
Lumens per Lamp: N/A
Luminaire Lumens: 3652.0 lumens
Efficiency: N/A
Efficacy: 151.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1587653

CATALOG NUMBER: 22CZSP-SB-37HE-L830

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°	3919	3919	3919
5°	3904	3926	3917
10°	3891	3918	3903
15°	3861	3901	3906
20°	3827	3874	3887
25°	3765	3832	3859
30°	3706	3801	3843
35°	3646	3764	3829
40°	3586	3731	3820
45°	3519	3697	3816
50°	3442	3656	3807
55°	3363	3616	3806
60°	3238	3563	3829
65°	3087	3494	3831
70°	2880	3397	3843
75°	2562	3273	3909
80°	2104	3136	4056
85°	1387	2942	3665

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4153 cd/sqm

TEST NUMBER: P1587653

CATALOG NUMBER: 22CZSP-SB-37HE-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	3.2
10°-20°	338.8	9.3
20°-30°	510.7	14.0
30°-40°	615.0	16.8
40°-50°	642.5	17.6
50°-60°	590.3	16.2
60°-70°	464.9	12.7
70°-80°	285.0	7.8
80°-90°	86.4	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°	967.9	26.5
0°-40°	1582.9	43.3
0°-60°	2815.7	77.1
0°-90°	3652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3652.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1251	1251	1251	1251	1251	
5°	1242	1244	1249	1248	1246	118
15°	1191	1196	1204	1208	1205	336
25°	1090	1097	1109	1121	1117	502
35°	954	966	985	1002	1002	597
45°	795	812	835	858	862	613
55°	616	634	662	691	697	550
65°	417	438	472	503	517	412
75°	212	236	270	303	323	225
85°	39	57	82	91	102	50
90°	0	0	0	0	0	

TEST NUMBER: P1587653

CATALOG NUMBER: 22CZSP-SB-37HE-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1251.4	1251.4	1251.4	1251.4	1251.4
2.5°	1246.8	1249.8	1253.7	1247.5	1244.4
5°	1242.1	1244.4	1249.1	1247.5	1246.0
7.5°	1233.6	1235.2	1241.3	1241.3	1239.8
10°	1223.6	1226.7	1232.1	1231.3	1227.4
12.5°	1210.4	1212.7	1218.9	1218.9	1216.6
15°	1191.1	1195.7	1203.5	1208.1	1205.0
17.5°	1171.0	1175.6	1185.7	1190.3	1188.8
20°	1148.6	1152.5	1162.5	1169.5	1166.4
22.5°	1120.8	1125.4	1137.0	1144.7	1141.6
25°	1089.8	1096.8	1109.2	1120.8	1116.9
27.5°	1058.9	1066.7	1082.1	1093.7	1092.2
30°	1024.9	1035.0	1051.2	1065.9	1062.8
32.5°	990.1	1001.7	1018.7	1034.2	1033.4
35°	953.8	966.2	984.7	1002.5	1001.7
37.5°	915.2	929.9	949.2	968.5	969.3
40°	877.3	891.2	912.8	933.7	934.5
42.5°	837.1	851.8	875.0	896.6	897.4
45°	794.6	811.6	834.8	858.0	861.8
47.5°	751.3	769.1	793.0	817.8	822.4
50°	706.5	725.0	750.5	776.8	781.4
52.5°	660.9	680.2	706.5	732.7	739.7
55°	616.0	633.8	662.4	691.0	697.2
57.5°	568.9	585.1	616.0	646.2	653.9
60°	517.1	537.2	568.9	599.0	611.4
62.5°	466.9	488.5	521.0	551.1	565.0
65°	416.6	438.3	471.5	503.2	517.1
67.5°	365.6	388.0	423.6	453.7	469.2
70°	314.6	337.0	371.0	403.5	419.7
72.5°	263.6	287.5	320.8	354.0	370.2
75°	211.8	236.5	270.5	303.0	323.1
77.5°	163.1	187.1	221.1	254.3	271.3
80°	116.7	140.7	173.9	207.1	224.9
82.5°	74.2	96.6	129.1	156.9	173.1
85°	38.6	57.2	81.9	91.2	102.0
87.5°	11.6	22.4	31.7	35.6	44.1
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1587653

CATALOG NUMBER: 22CZSP-SB-37HE-L830

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	16.26	17.92	16.62	18.24	18.55	17.00	18.67	17.37	18.98	19.30
	3H	18.02	19.53	18.40	19.85	20.21	19.10	20.61	19.48	20.93	21.29
	4H	18.65	20.07	19.04	20.42	20.79	19.98	21.41	20.38	21.75	22.13
	6H	19.06	20.38	19.47	20.74	21.13	20.75	22.07	21.16	22.44	22.83
	8H	19.16	20.43	19.59	20.82	21.21	21.06	22.33	21.49	22.71	23.11
	12H	19.22	20.43	19.64	20.81	21.24	21.28	22.49	21.70	22.87	23.30
4H	2H	17.03	18.45	17.43	18.80	19.17	17.61	19.03	18.01	19.38	19.75
	3H	19.02	20.22	19.43	20.62	21.02	19.94	21.14	20.35	21.53	21.93
	4H	19.78	20.86	20.21	21.27	21.71	20.97	22.06	21.40	22.47	22.91
	6H	20.31	21.26	20.76	21.70	22.16	21.90	22.85	22.35	23.29	23.75
	8H	20.46	21.35	20.92	21.79	22.26	22.29	23.18	22.74	23.62	24.08
	12H	20.55	21.35	21.02	21.82	22.29	22.56	23.36	23.04	23.84	24.31
8H	4H	20.23	21.12	20.69	21.56	22.03	21.27	22.16	21.73	22.61	23.07
	6H	20.91	21.65	21.40	22.14	22.61	22.36	23.10	22.85	23.59	24.06
	8H	21.13	21.79	21.63	22.30	22.78	22.84	23.51	23.35	24.02	24.50
	12H	21.27	21.87	21.78	22.36	22.91	23.22	23.81	23.72	24.30	24.86
12H	4H	20.31	21.12	20.79	21.59	22.06	21.30	22.10	21.78	22.58	23.05
	6H	21.03	21.70	21.54	22.21	22.69	22.41	23.08	22.91	23.58	24.07
	8H	21.32	21.92	21.83	22.41	22.96	22.96	23.55	23.47	24.04	24.60