

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: P1587652

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587652
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-37HE-L830-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 3500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

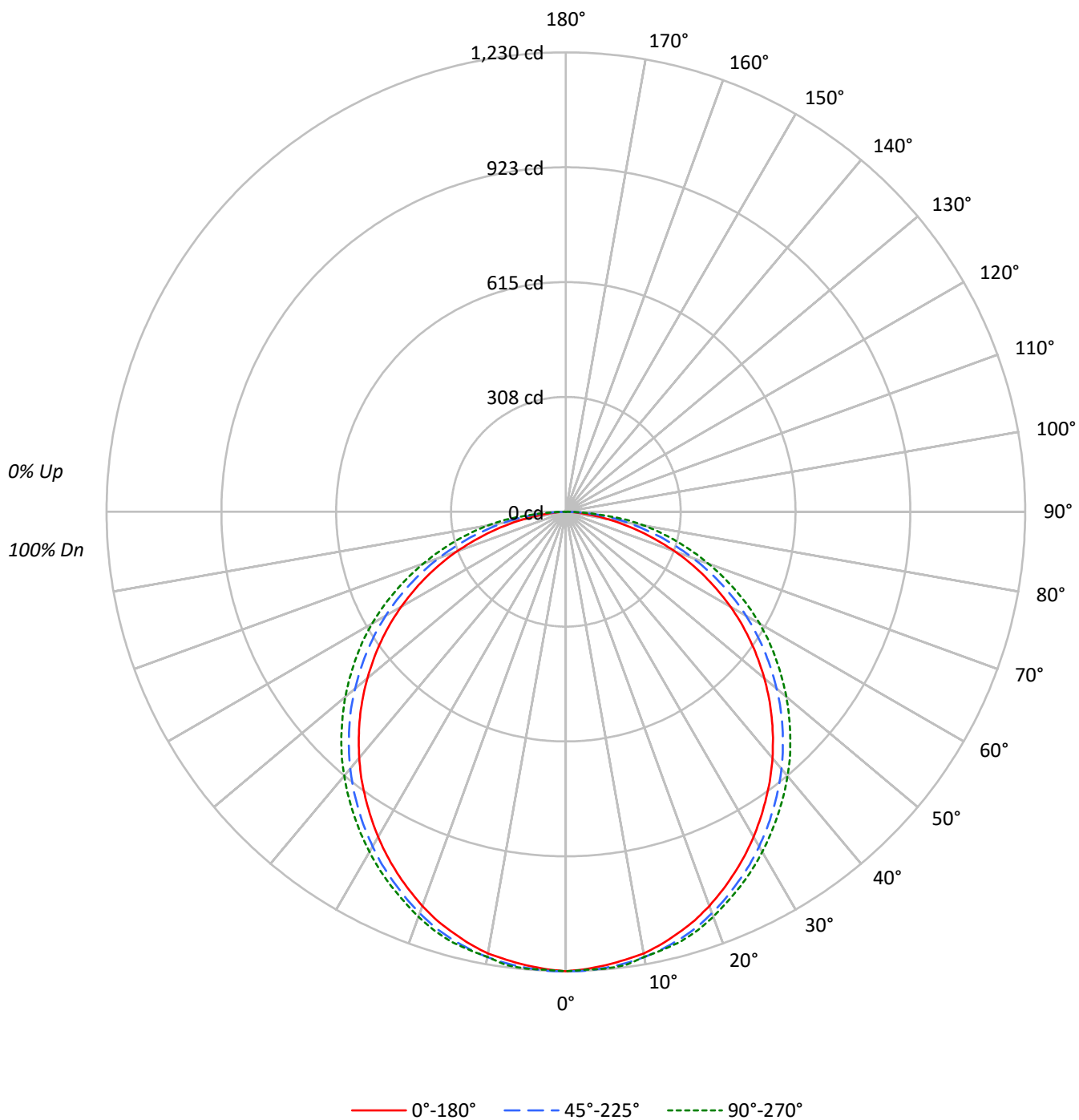
Lumens per Lamp: N/A
Luminaire Lumens: 3579.0 lumens
Efficiency: N/A
Efficacy: 148.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3852	3852	3852
5°	3831	3853	3860
10°	3819	3851	3848
15°	3784	3839	3861
20°	3743	3812	3846
25°	3690	3775	3823
30°	3636	3742	3803
35°	3576	3705	3785
40°	3519	3673	3773
45°	3454	3634	3764
50°	3379	3589	3754
55°	3295	3543	3749
60°	3192	3491	3751
65°	3046	3417	3731
70°	2847	3313	3722
75°	2524	3186	3735
80°	2054	3026	3846
85°	1329	2795	3320

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3898 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.4	3.3
10°-20°	333.4	9.3
20°-30°	502.7	14.0
30°-40°	604.9	16.9
40°-50°	630.9	17.6
50°-60°	578.3	16.2
60°-70°	454.1	12.7
70°-80°	276.4	7.7
80°-90°	81.8	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°	952.6	26.6
0°-40°	1557.4	43.5
0°-60°	2766.7	77.3
0°-90°	3579.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3579.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1219	1226	1226	1224	1228	116
15°	1167	1179	1184	1186	1191	329
25°	1068	1082	1092	1099	1106	492
35°	936	950	969	983	990	585
45°	780	796	821	840	850	601
55°	604	619	649	675	687	539
65°	411	426	461	492	504	407
75°	209	228	263	295	309	221
85°	37	52	78	87	92	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1230.3	1230.3	1230.3	1230.3	1230.3
2.5°	1225.7	1231.9	1230.3	1224.9	1227.3
5°	1218.8	1226.5	1225.7	1224.2	1228.0
7.5°	1210.3	1218.8	1219.6	1219.6	1224.2
10°	1201.1	1209.5	1211.1	1208.8	1210.3
12.5°	1185.7	1195.7	1198.8	1198.8	1201.1
15°	1167.2	1178.8	1184.1	1185.7	1191.1
17.5°	1147.2	1159.5	1166.4	1170.3	1174.9
20°	1123.3	1136.4	1144.1	1148.7	1154.1
22.5°	1096.4	1111.0	1119.5	1124.1	1130.2
25°	1067.9	1082.5	1092.5	1099.4	1106.4
27.5°	1037.9	1051.7	1065.6	1074.0	1080.2
30°	1005.5	1020.1	1034.8	1045.6	1051.7
32.5°	970.9	986.3	1003.2	1014.8	1021.7
35°	935.5	950.1	969.3	983.2	990.1
37.5°	899.3	914.7	934.7	949.3	957.8
40°	860.8	876.9	898.5	914.7	923.1
42.5°	820.7	836.1	860.0	878.5	888.5
45°	779.9	796.1	820.7	840.0	850.0
47.5°	737.6	753.0	779.9	802.3	810.7
50°	693.7	708.3	736.8	760.7	770.7
52.5°	649.0	664.4	692.9	718.3	729.1
55°	603.6	619.0	649.0	675.2	686.8
57.5°	557.4	572.8	603.6	630.6	644.4
60°	509.7	525.1	557.4	585.1	599.0
62.5°	460.4	476.6	509.7	538.2	552.8
65°	411.1	426.5	461.2	492.0	503.5
67.5°	361.9	377.3	411.1	441.9	455.8
70°	311.0	328.8	361.9	394.2	406.5
72.5°	257.9	277.9	311.0	344.9	357.2
75°	208.6	227.9	263.3	294.9	308.7
77.5°	160.1	180.9	214.0	246.4	260.2
80°	113.9	134.0	167.8	198.6	213.3
82.5°	72.4	90.1	124.0	151.7	162.5
85°	37.0	52.4	77.8	87.0	92.4
87.5°	10.8	18.5	27.7	34.6	38.5
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	16.19	17.85	16.55	18.16	18.47	16.92	18.58	17.29	18.90	19.21
	3H	17.95	19.46	18.33	19.79	20.14	19.00	20.50	19.38	20.83	21.19
	4H	18.57	19.99	18.97	20.34	20.71	19.87	21.28	20.26	21.63	22.01
	6H	18.98	20.30	19.39	20.66	21.05	20.61	21.93	21.02	22.29	22.68
	8H	19.08	20.34	19.51	20.73	21.13	20.90	22.16	21.33	22.55	22.95
	12H	19.13	20.34	19.56	20.72	21.15	21.10	22.31	21.53	22.69	23.12
4H	2H	16.95	18.37	17.35	18.72	19.10	17.53	18.95	17.92	19.29	19.67
	3H	18.95	20.14	19.35	20.54	20.94	19.84	21.03	20.25	21.43	21.83
	4H	19.69	20.77	20.12	21.18	21.62	20.86	21.94	21.29	22.35	22.79
	6H	20.22	21.17	20.67	21.61	22.06	21.76	22.71	22.21	23.15	23.61
	8H	20.36	21.25	20.82	21.69	22.15	22.13	23.02	22.59	23.46	23.92
	12H	20.44	21.24	20.92	21.71	22.18	22.38	23.18	22.86	23.66	24.13
8H	4H	20.13	21.02	20.59	21.46	21.93	21.15	22.04	21.61	22.49	22.95
	6H	20.80	21.54	21.29	22.02	22.50	22.21	22.95	22.70	23.44	23.91
	8H	21.01	21.67	21.51	22.18	22.66	22.68	23.35	23.19	23.85	24.34
	12H	21.14	21.73	21.65	22.22	22.78	23.04	23.63	23.54	24.12	24.67
12H	4H	20.21	21.01	20.69	21.49	21.96	21.18	21.98	21.66	22.46	22.92
	6H	20.92	21.59	21.43	22.09	22.58	22.26	22.93	22.77	23.43	23.92
	8H	21.20	21.79	21.70	22.28	22.84	22.80	23.39	23.31	23.88	24.44