

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: P1587654

Luminaire Tested: 22CZSP-SB-37HE-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587654
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-L835-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 3500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

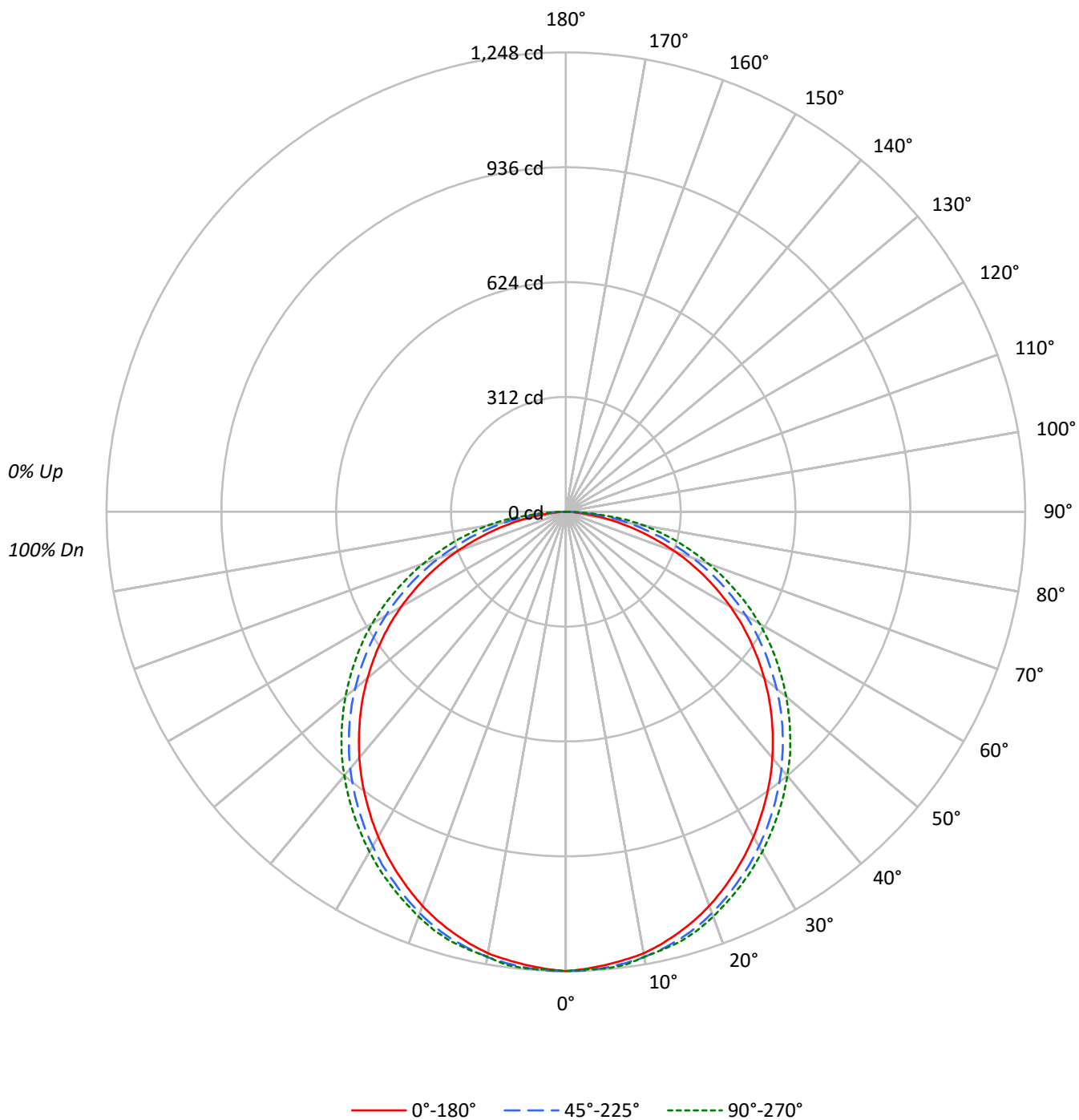
Lumens per Lamp: N/A
Luminaire Lumens: 3630.0 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	3908	3908	3908
5°	3886	3908	3915
10°	3873	3906	3903
15°	3838	3893	3916
20°	3796	3867	3901
25°	3742	3829	3877
30°	3687	3795	3857
35°	3627	3758	3839
40°	3569	3725	3827
45°	3503	3686	3818
50°	3428	3640	3808
55°	3342	3594	3803
60°	3238	3541	3805
65°	3090	3466	3784
70°	2889	3360	3775
75°	2560	3232	3788
80°	2085	3069	3900
85°	1347	2835	3366

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3954 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.1	3.3
10°-20°	338.2	9.3
20°-30°	509.9	14.0
30°-40°	613.5	16.9
40°-50°	639.9	17.6
50°-60°	586.6	16.2
60°-70°	460.6	12.7
70°-80°	280.3	7.7
80°-90°	82.9	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°	966.1	26.6
0°-40°	1579.6	43.5
0°-60°	2806.1	77.3
0°-90°	3630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3630.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1248	1248	1248	1248	1248	
5°	1236	1244	1243	1242	1246	117
15°	1184	1196	1201	1203	1208	334
25°	1083	1098	1108	1115	1122	499
35°	949	964	983	997	1004	594
45°	791	807	832	852	862	610
55°	612	628	658	685	697	547
65°	417	433	468	499	511	412
75°	212	231	267	299	313	224
85°	38	53	79	88	94	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1247.9	1247.9	1247.9	1247.9	1247.9
2.5°	1243.2	1249.4	1247.9	1242.4	1244.7
5°	1236.2	1244.0	1243.2	1241.6	1245.5
7.5°	1227.6	1236.2	1236.9	1236.9	1241.6
10°	1218.2	1226.8	1228.3	1226.0	1227.6
12.5°	1202.6	1212.7	1215.9	1215.9	1218.2
15°	1183.8	1195.5	1201.0	1202.6	1208.0
17.5°	1163.5	1176.0	1183.1	1187.0	1191.6
20°	1139.3	1152.6	1160.4	1165.1	1170.6
22.5°	1112.0	1126.8	1135.4	1140.1	1146.4
25°	1083.1	1097.9	1108.1	1115.1	1122.1
27.5°	1052.6	1066.7	1080.8	1089.3	1095.6
30°	1019.8	1034.7	1049.5	1060.5	1066.7
32.5°	984.7	1000.3	1017.5	1029.2	1036.2
35°	948.8	963.6	983.1	997.2	1004.2
37.5°	912.1	927.7	948.0	962.8	971.4
40°	873.0	889.4	911.3	927.7	936.3
42.5°	832.4	848.1	872.3	891.0	901.2
45°	791.0	807.4	832.4	852.0	862.1
47.5°	748.1	763.7	791.0	813.7	822.3
50°	703.6	718.4	747.3	771.5	781.7
52.5°	658.3	673.9	702.8	728.6	739.5
55°	612.2	627.8	658.3	684.8	696.6
57.5°	565.4	581.0	612.2	639.6	653.6
60°	517.0	532.6	565.4	593.5	607.5
62.5°	467.0	483.4	517.0	545.8	560.7
65°	417.0	432.6	467.8	499.0	510.7
67.5°	367.0	382.6	417.0	448.2	462.3
70°	315.5	333.4	367.0	399.8	412.3
72.5°	261.6	281.9	315.5	349.8	362.3
75°	211.6	231.1	267.1	299.1	313.1
77.5°	162.4	183.5	217.1	249.9	263.9
80°	115.6	135.9	170.2	201.5	216.3
82.5°	73.4	91.4	125.7	153.8	164.8
85°	37.5	53.1	78.9	88.2	93.7
87.5°	10.9	18.7	28.1	35.1	39.0
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	16.23	17.89	16.60	18.21	18.52	16.97	18.63	17.33	18.94	19.26
	3H	18.00	19.51	18.38	19.83	20.19	19.05	20.55	19.43	20.88	21.24
	4H	18.62	20.04	19.02	20.39	20.76	19.91	21.33	20.31	21.68	22.06
	6H	19.03	20.35	19.44	20.71	21.10	20.66	21.98	21.07	22.34	22.73
	8H	19.13	20.39	19.56	20.78	21.18	20.95	22.21	21.38	22.60	23.00
	12H	19.18	20.39	19.61	20.77	21.20	21.15	22.36	21.58	22.74	23.17
4H	2H	17.00	18.42	17.40	18.77	19.15	17.57	18.99	17.97	19.34	19.72
	3H	18.99	20.19	19.40	20.59	20.99	19.89	21.08	20.30	21.48	21.88
	4H	19.74	20.82	20.17	21.23	21.67	20.91	21.99	21.34	22.40	22.84
	6H	20.27	21.21	20.72	21.65	22.11	21.81	22.76	22.26	23.20	23.65
	8H	20.41	21.30	20.87	21.74	22.20	22.18	23.07	22.64	23.51	23.97
	12H	20.49	21.29	20.97	21.76	22.23	22.43	23.23	22.91	23.71	24.18
8H	4H	20.18	21.07	20.64	21.51	21.98	21.20	22.09	21.66	22.53	23.00
	6H	20.85	21.59	21.34	22.07	22.55	22.26	23.00	22.75	23.49	23.96
	8H	21.05	21.72	21.56	22.23	22.71	22.73	23.40	23.24	23.90	24.39
	12H	21.19	21.78	21.70	22.27	22.83	23.08	23.67	23.59	24.16	24.72
12H	4H	20.26	21.06	20.74	21.54	22.01	21.23	22.03	21.71	22.50	22.97
	6H	20.97	21.64	21.48	22.14	22.63	22.31	22.98	22.82	23.48	23.97
	8H	21.25	21.84	21.75	22.33	22.88	22.85	23.44	23.35	23.93	24.49