

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: P1587620

Luminaire Tested: 22CZSP-SB-33HE-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587620
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-33HE-L850-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 3000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

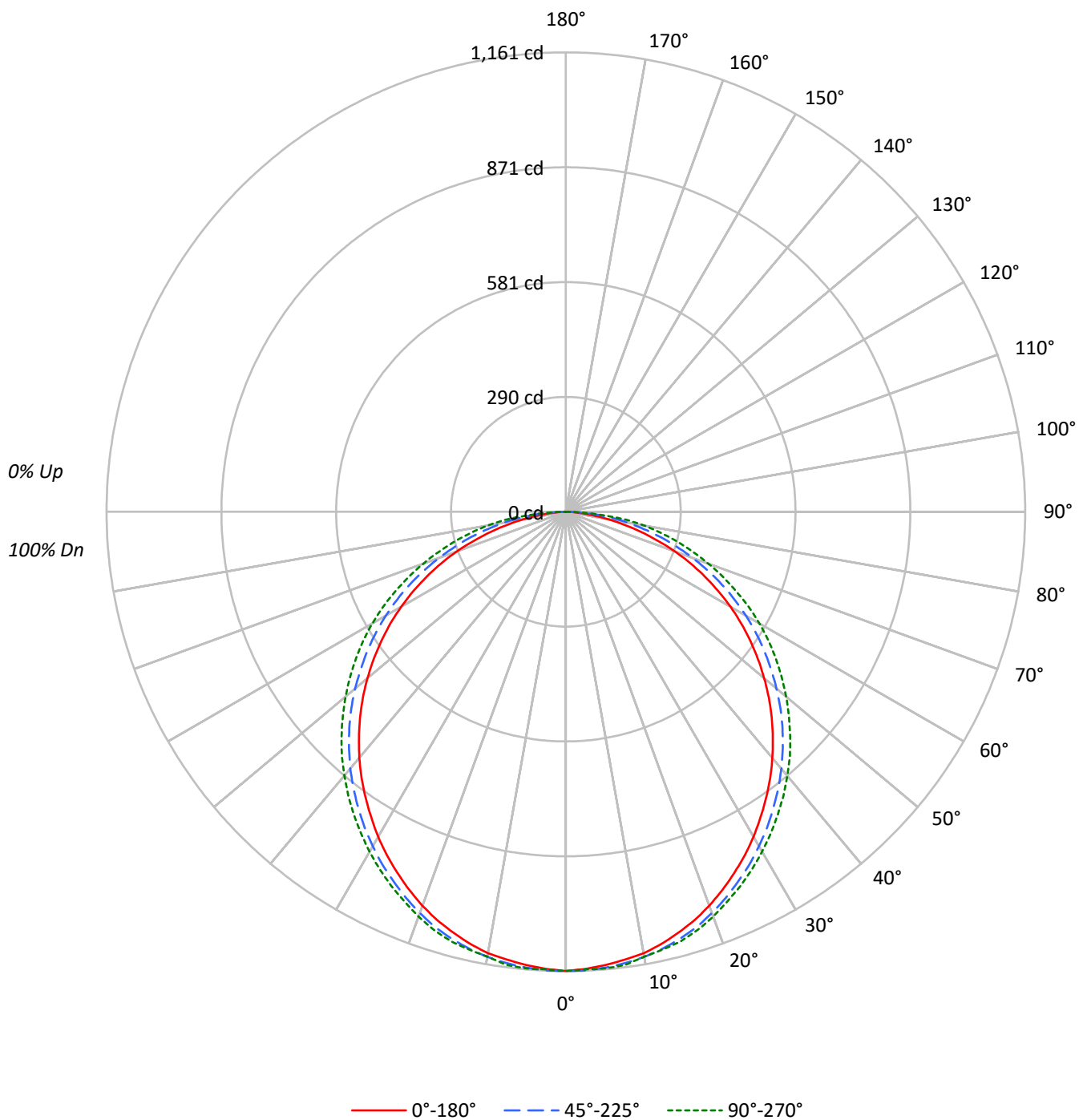
Lumens per Lamp: N/A
Luminaire Lumens: 3376.0 lumens
Efficiency: N/A
Efficacy: 155.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
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°	3634	3634	3634
5°	3614	3634	3641
10°	3603	3632	3630
15°	3569	3621	3642
20°	3531	3596	3628
25°	3480	3561	3606
30°	3430	3529	3587
35°	3373	3495	3570
40°	3319	3464	3560
45°	3258	3428	3551
50°	3188	3386	3542
55°	3109	3342	3537
60°	3011	3293	3538
65°	2873	3223	3519
70°	2686	3125	3511
75°	2381	3005	3523
80°	1939	2855	3628
85°	1254	2637	3133

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3675 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.8	3.3
10°-20°	314.5	9.3
20°-30°	474.2	14.0
30°-40°	570.6	16.9
40°-50°	595.2	17.6
50°-60°	545.5	16.2
60°-70°	428.4	12.7
70°-80°	260.7	7.7
80°-90°	77.1	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°	898.5	26.6
0°-40°	1469.1	43.5
0°-60°	2609.8	77.3
0°-90°	3376.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3376.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1161	1161	1161	1161	1161	
5°	1150	1157	1156	1155	1158	109
15°	1101	1112	1117	1118	1124	311
25°	1007	1021	1031	1037	1044	464
35°	882	896	914	927	934	552
45°	736	751	774	792	802	567
55°	569	584	612	637	648	509
65°	388	402	435	464	475	384
75°	197	215	248	278	291	209
85°	35	49	73	82	87	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1160.6	1160.6	1160.6	1160.6	1160.6
2.5°	1156.2	1162.0	1160.6	1155.5	1157.6
5°	1149.7	1156.9	1156.2	1154.7	1158.4
7.5°	1141.7	1149.7	1150.4	1150.4	1154.7
10°	1133.0	1140.9	1142.4	1140.2	1141.7
12.5°	1118.4	1127.9	1130.8	1130.8	1133.0
15°	1101.0	1111.9	1117.0	1118.4	1123.5
17.5°	1082.1	1093.7	1100.3	1103.9	1108.3
20°	1059.6	1071.9	1079.2	1083.6	1088.7
22.5°	1034.2	1048.0	1056.0	1060.3	1066.1
25°	1007.3	1021.1	1030.6	1037.1	1043.6
27.5°	979.0	992.1	1005.1	1013.1	1018.9
30°	948.5	962.3	976.1	986.3	992.1
32.5°	915.8	930.3	946.3	957.2	963.7
35°	882.4	896.2	914.4	927.4	934.0
37.5°	848.3	862.8	881.7	895.5	903.5
40°	812.0	827.2	847.5	862.8	870.8
42.5°	774.2	788.7	811.2	828.7	838.1
45°	735.7	750.9	774.2	792.3	801.8
47.5°	695.8	710.3	735.7	756.8	764.7
50°	654.4	668.2	695.0	717.5	727.0
52.5°	612.2	626.8	653.6	677.6	687.8
55°	569.4	583.9	612.2	636.9	647.8
57.5°	525.8	540.3	569.4	594.8	607.9
60°	480.8	495.3	525.8	552.0	565.0
62.5°	434.3	449.6	480.8	507.7	521.4
65°	387.8	402.3	435.0	464.1	475.0
67.5°	341.3	355.9	387.8	416.9	429.9
70°	293.4	310.1	341.3	371.8	383.5
72.5°	243.3	262.2	293.4	325.4	337.0
75°	196.8	215.0	248.4	278.2	291.2
77.5°	151.1	170.7	201.9	232.4	245.5
80°	107.5	126.4	158.3	187.4	201.2
82.5°	68.3	85.0	116.9	143.1	153.2
85°	34.9	49.4	73.4	82.1	87.2
87.5°	10.2	17.4	26.1	32.7	36.3
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	15.98	17.64	16.35	17.96	18.27	16.72	18.38	17.08	18.69	19.01
	3H	17.75	19.26	18.13	19.58	19.94	18.80	20.30	19.17	20.63	20.99
	4H	18.37	19.79	18.77	20.14	20.51	19.66	21.08	20.06	21.43	21.80
	6H	18.78	20.10	19.19	20.46	20.85	20.41	21.72	20.82	22.09	22.48
	8H	18.88	20.14	19.31	20.53	20.93	20.70	21.96	21.13	22.35	22.75
	12H	18.93	20.14	19.36	20.52	20.95	20.90	22.10	21.32	22.49	22.91
4H	2H	16.75	18.17	17.15	18.52	18.89	17.32	18.74	17.72	19.09	19.46
	3H	18.74	19.94	19.15	20.33	20.73	19.64	20.83	20.04	21.23	21.63
	4H	19.48	20.57	19.92	20.98	21.42	20.65	21.74	21.08	22.15	22.58
	6H	20.01	20.96	20.47	21.40	21.86	21.56	22.51	22.01	22.95	23.40
	8H	20.16	21.04	20.61	21.49	21.95	21.93	22.82	22.39	23.26	23.72
	12H	20.24	21.04	20.72	21.51	21.98	22.18	22.98	22.66	23.46	23.92
8H	4H	19.93	20.82	20.39	21.26	21.73	20.95	21.84	21.41	22.28	22.75
	6H	20.59	21.34	21.09	21.82	22.30	22.01	22.75	22.50	23.24	23.71
	8H	20.80	21.47	21.31	21.97	22.46	22.48	23.15	22.99	23.65	24.14
	12H	20.94	21.53	21.45	22.02	22.58	22.83	23.42	23.34	23.91	24.47
12H	4H	20.01	20.81	20.49	21.29	21.75	20.98	21.78	21.46	22.25	22.72
	6H	20.72	21.38	21.22	21.89	22.37	22.06	22.73	22.57	23.23	23.72
	8H	20.99	21.58	21.50	22.07	22.63	22.60	23.19	23.10	23.68	24.24