

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: P1587612

Luminaire Tested: 22CZSP-SB-33HE-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587612
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-L830-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 3000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

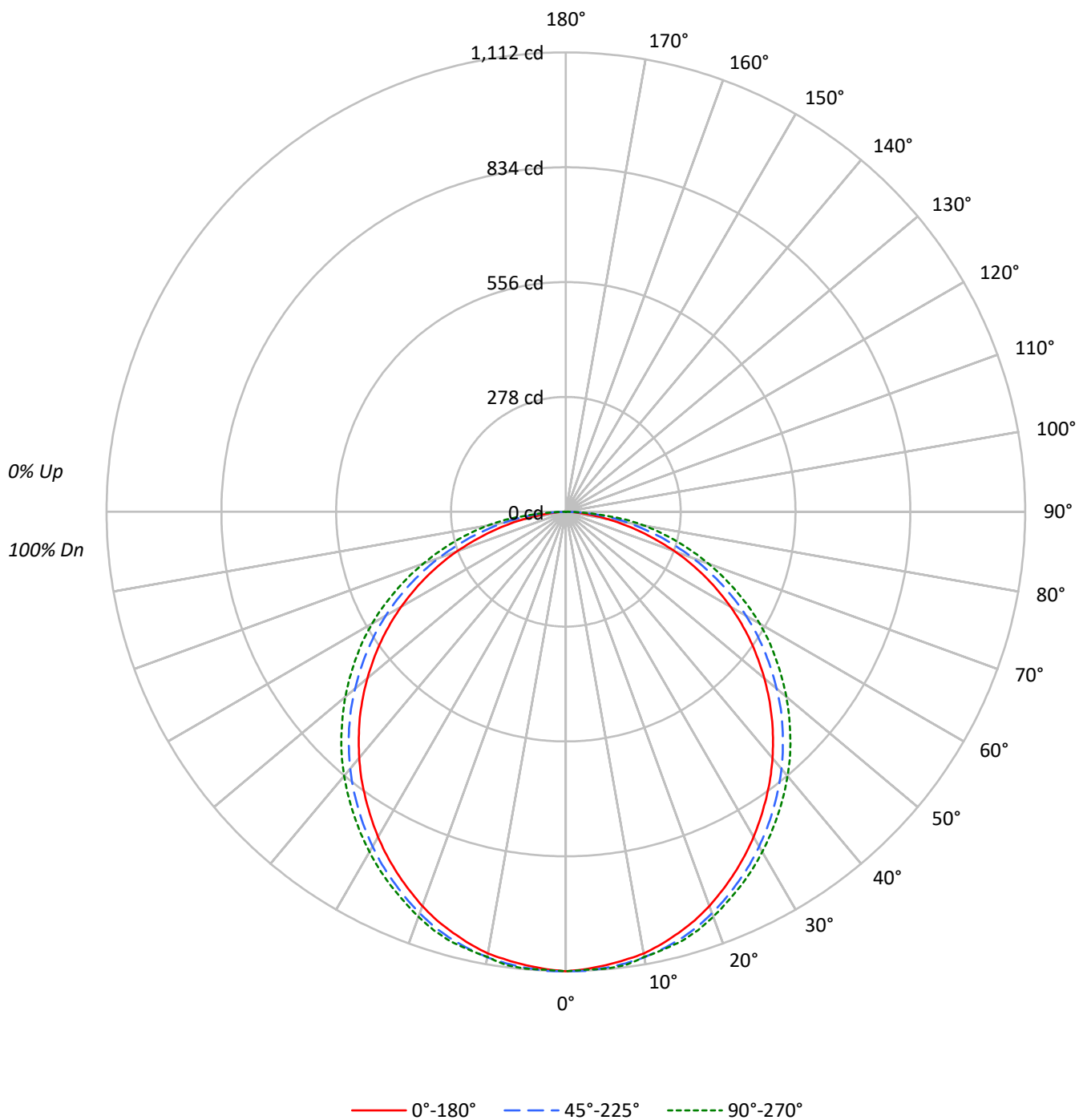
Lumens per Lamp: N/A
Luminaire Lumens: 3236.0 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	3483	3483	3483
5°	3464	3483	3490
10°	3453	3482	3479
15°	3421	3471	3491
20°	3385	3447	3477
25°	3336	3413	3456
30°	3287	3383	3438
35°	3233	3350	3422
40°	3181	3321	3412
45°	3123	3286	3403
50°	3055	3245	3394
55°	2980	3204	3390
60°	2886	3156	3392
65°	2754	3090	3373
70°	2574	2996	3366
75°	2283	2881	3378
80°	1857	2737	3477
85°	1200	2526	3000

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3524 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	3.3
10°-20°	301.5	9.3
20°-30°	454.5	14.0
30°-40°	546.9	16.9
40°-50°	570.5	17.6
50°-60°	522.9	16.2
60°-70°	410.6	12.7
70°-80°	249.9	7.7
80°-90°	73.9	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°	861.3	26.6
0°-40°	1408.2	43.5
0°-60°	2501.6	77.3
0°-90°	3236.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3236.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1112	1112	1112	1112	1112	
5°	1102	1109	1108	1107	1110	105
15°	1055	1066	1071	1072	1077	298
25°	966	979	988	994	1000	445
35°	846	859	876	889	895	529
45°	705	720	742	760	768	544
55°	546	560	587	610	621	488
65°	372	386	417	445	455	368
75°	189	206	238	267	279	200
85°	33	47	70	79	84	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1112.4	1112.4	1112.4	1112.4	1112.4
2.5°	1108.2	1113.8	1112.4	1107.6	1109.6
5°	1102.0	1108.9	1108.2	1106.9	1110.3
7.5°	1094.3	1102.0	1102.7	1102.7	1106.9
10°	1086.0	1093.6	1095.0	1092.9	1094.3
12.5°	1072.0	1081.1	1083.9	1083.9	1086.0
15°	1055.3	1065.8	1070.7	1072.0	1076.9
17.5°	1037.2	1048.4	1054.6	1058.1	1062.3
20°	1015.7	1027.5	1034.5	1038.6	1043.5
22.5°	991.3	1004.5	1012.2	1016.4	1021.9
25°	965.5	978.8	987.8	994.1	1000.3
27.5°	938.4	950.9	963.5	971.1	976.7
30°	909.2	922.4	935.6	945.4	950.9
32.5°	877.8	891.7	907.1	917.5	923.8
35°	845.8	859.0	876.4	889.0	895.2
37.5°	813.1	827.0	845.1	858.3	866.0
40°	778.3	792.9	812.4	827.0	834.7
42.5°	742.1	756.0	777.6	794.3	803.3
45°	705.2	719.8	742.1	759.5	768.5
47.5°	666.9	680.8	705.2	725.4	733.0
50°	627.2	640.4	666.2	687.8	696.8
52.5°	586.8	600.8	626.5	649.5	659.2
55°	545.8	559.7	586.8	610.5	621.0
57.5°	504.0	517.9	545.8	570.1	582.7
60°	460.8	474.8	504.0	529.1	541.6
62.5°	416.3	430.9	460.8	486.6	499.8
65°	371.7	385.7	417.0	444.8	455.3
67.5°	327.2	341.1	371.7	399.6	412.1
70°	281.2	297.2	327.2	356.4	367.6
72.5°	233.2	251.3	281.2	311.9	323.0
75°	188.7	206.1	238.1	266.6	279.2
77.5°	144.8	163.6	193.5	222.8	235.3
80°	103.0	121.1	151.8	179.6	192.8
82.5°	65.4	81.4	112.1	137.1	146.9
85°	33.4	47.3	70.3	78.7	83.5
87.5°	9.7	16.7	25.1	31.3	34.8
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	15.84	17.50	16.20	17.81	18.12	16.57	18.23	16.94	18.54	18.86
	3H	17.60	19.11	17.98	19.43	19.79	18.65	20.15	19.03	20.48	20.84
	4H	18.22	19.64	18.62	19.99	20.36	19.52	20.93	19.91	21.28	21.66
	6H	18.63	19.95	19.04	20.31	20.70	20.26	21.58	20.67	21.94	22.33
	8H	18.73	19.99	19.16	20.38	20.78	20.55	21.81	20.98	22.20	22.60
	12H	18.78	19.99	19.21	20.37	20.80	20.75	21.96	21.18	22.34	22.77
4H	2H	16.60	18.02	17.00	18.37	18.75	17.18	18.59	17.57	18.94	19.32
	3H	18.59	19.79	19.00	20.19	20.59	19.49	20.68	19.90	21.08	21.48
	4H	19.34	20.42	19.77	20.83	21.27	20.51	21.59	20.94	22.00	22.44
	6H	19.87	20.82	20.32	21.26	21.71	21.41	22.36	21.86	22.80	23.26
	8H	20.01	20.90	20.47	21.34	21.80	21.78	22.67	22.24	23.11	23.57
	12H	20.09	20.89	20.57	21.36	21.83	22.03	22.83	22.51	23.31	23.78
8H	4H	19.78	20.67	20.24	21.11	21.58	20.80	21.69	21.26	22.14	22.60
	6H	20.45	21.19	20.94	21.67	22.15	21.86	22.60	22.35	23.09	23.56
	8H	20.66	21.32	21.16	21.83	22.31	22.33	23.00	22.84	23.50	23.99
	12H	20.79	21.38	21.30	21.87	22.43	22.69	23.28	23.19	23.76	24.32
12H	4H	19.86	20.66	20.34	21.14	21.61	20.83	21.63	21.31	22.11	22.57
	6H	20.57	21.24	21.08	21.74	22.23	21.91	22.58	22.42	23.08	23.57
	8H	20.85	21.44	21.35	21.93	22.49	22.45	23.04	22.96	23.53	24.09