

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: P1587623

Luminaire Tested: 22CZSP-SB-33HE-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587623
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-33HE-L930
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 3000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

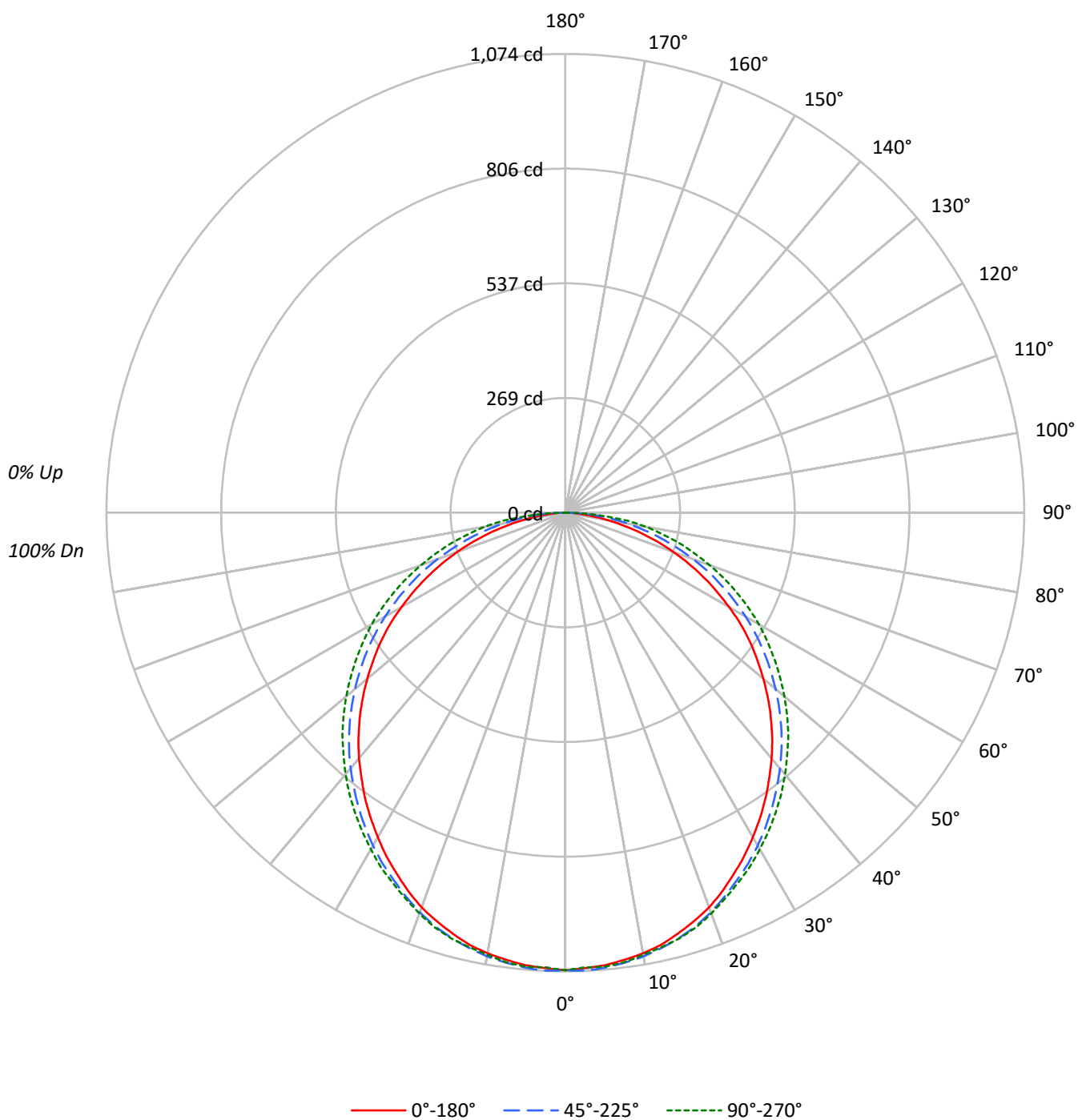
Lumens per Lamp: N/A
Luminaire Lumens: 3127.0 lumens
Efficiency: N/A
Efficacy: 144.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3355	3355	3355
5°	3343	3362	3354
10°	3331	3355	3342
15°	3306	3341	3345
20°	3277	3317	3328
25°	3224	3281	3304
30°	3173	3255	3290
35°	3122	3223	3279
40°	3071	3195	3271
45°	3013	3165	3268
50°	2947	3130	3260
55°	2880	3097	3259
60°	2773	3051	3278
65°	2643	2991	3281
70°	2466	2909	3290
75°	2193	2802	3346
80°	1801	2685	3473
85°	1189	2522	3140

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3555 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.4	3.2
10°-20°	290.1	9.3
20°-30°	437.3	14.0
30°-40°	526.6	16.8
40°-50°	550.2	17.6
50°-60°	505.4	16.2
60°-70°	398.0	12.7
70°-80°	244.0	7.8
80°-90°	74.0	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°	828.8	26.5
0°-40°	1355.4	43.3
0°-60°	2411.0	77.1
0°-90°	3127.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3127.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1072	1072	1072	1072	1072	
5°	1064	1066	1070	1068	1067	101
15°	1020	1024	1030	1034	1032	288
25°	933	939	950	960	956	430
35°	817	827	843	858	858	511
45°	680	695	715	735	738	525
55°	528	543	567	592	597	471
65°	357	375	404	431	443	353
75°	181	202	232	259	277	193
85°	33	49	70	78	87	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1071.5	1071.5	1071.5	1071.5	1071.5
2.5°	1067.5	1070.2	1073.5	1068.2	1065.5
5°	1063.6	1065.5	1069.5	1068.2	1066.9
7.5°	1056.3	1057.6	1062.9	1062.9	1061.6
10°	1047.7	1050.3	1055.0	1054.3	1051.0
12.5°	1036.4	1038.4	1043.7	1043.7	1041.7
15°	1019.9	1023.8	1030.5	1034.4	1031.8
17.5°	1002.7	1006.6	1015.2	1019.2	1017.9
20°	983.5	986.8	995.4	1001.3	998.7
22.5°	959.6	963.6	973.5	980.2	977.5
25°	933.2	939.1	949.7	959.6	956.3
27.5°	906.7	913.3	926.6	936.5	935.2
30°	877.6	886.2	900.1	912.7	910.0
32.5°	847.8	857.7	872.3	885.5	884.9
35°	816.7	827.3	843.2	858.4	857.7
37.5°	783.6	796.2	812.7	829.3	829.9
40°	751.2	763.1	781.6	799.5	800.1
42.5°	716.8	729.3	749.2	767.7	768.4
45°	680.4	694.9	714.8	734.6	737.9
47.5°	643.3	658.5	679.0	700.2	704.2
50°	604.9	620.8	642.6	665.1	669.1
52.5°	565.9	582.4	604.9	627.4	633.4
55°	527.5	542.7	567.2	591.7	597.0
57.5°	487.1	501.0	527.5	553.3	559.9
60°	442.8	460.0	487.1	512.9	523.5
62.5°	399.7	418.3	446.1	471.9	483.8
65°	356.7	375.3	403.7	430.8	442.8
67.5°	313.0	332.2	362.7	388.5	401.7
70°	269.4	288.6	317.7	345.5	359.4
72.5°	225.7	246.2	274.7	303.1	317.0
75°	181.3	202.5	231.6	259.4	276.6
77.5°	139.6	160.2	189.3	217.7	232.3
80°	99.9	120.5	148.9	177.4	192.6
82.5°	63.5	82.7	110.5	134.4	148.2
85°	33.1	49.0	70.2	78.1	87.4
87.5°	9.9	19.2	27.1	30.4	37.7
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	15.72	17.38	16.08	17.70	18.01	16.47	18.13	16.83	18.44	18.76
	3H	17.48	18.99	17.86	19.32	19.67	18.56	20.07	18.94	20.39	20.75
	4H	18.11	19.53	18.50	19.88	20.25	19.45	20.87	19.84	21.21	21.59
	6H	18.52	19.84	18.93	20.20	20.59	20.21	21.53	20.62	21.90	22.29
	8H	18.62	19.89	19.05	20.28	20.67	20.52	21.79	20.95	22.18	22.57
	12H	18.68	19.89	19.11	20.27	20.70	20.74	21.95	21.17	22.33	22.76
4H	2H	16.49	17.91	16.89	18.26	18.63	17.07	18.49	17.47	18.84	19.21
	3H	18.48	19.68	18.89	20.08	20.48	19.40	20.60	19.81	20.99	21.39
	4H	19.24	20.32	19.67	20.74	21.17	20.43	21.52	20.86	21.93	22.37
	6H	19.77	20.73	20.23	21.16	21.62	21.36	22.32	21.82	22.75	23.21
	8H	19.92	20.81	20.38	21.25	21.72	21.75	22.64	22.21	23.08	23.54
	12H	20.01	20.81	20.48	21.28	21.75	22.02	22.83	22.50	23.30	23.77
8H	4H	19.69	20.58	20.15	21.02	21.49	20.73	21.62	21.19	22.07	22.53
	6H	20.37	21.11	20.86	21.60	22.07	21.82	22.56	22.31	23.05	23.52
	8H	20.59	21.26	21.09	21.76	22.24	22.30	22.97	22.81	23.48	23.96
	12H	20.73	21.33	21.24	21.82	22.37	22.68	23.27	23.18	23.76	24.32
12H	4H	19.77	20.58	20.25	21.05	21.52	20.76	21.56	21.24	22.04	22.51
	6H	20.49	21.16	21.00	21.67	22.15	21.87	22.54	22.38	23.04	23.53
	8H	20.79	21.38	21.29	21.87	22.43	22.42	23.01	22.93	23.50	24.06