

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: P1587622

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587622
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-L930-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 3000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

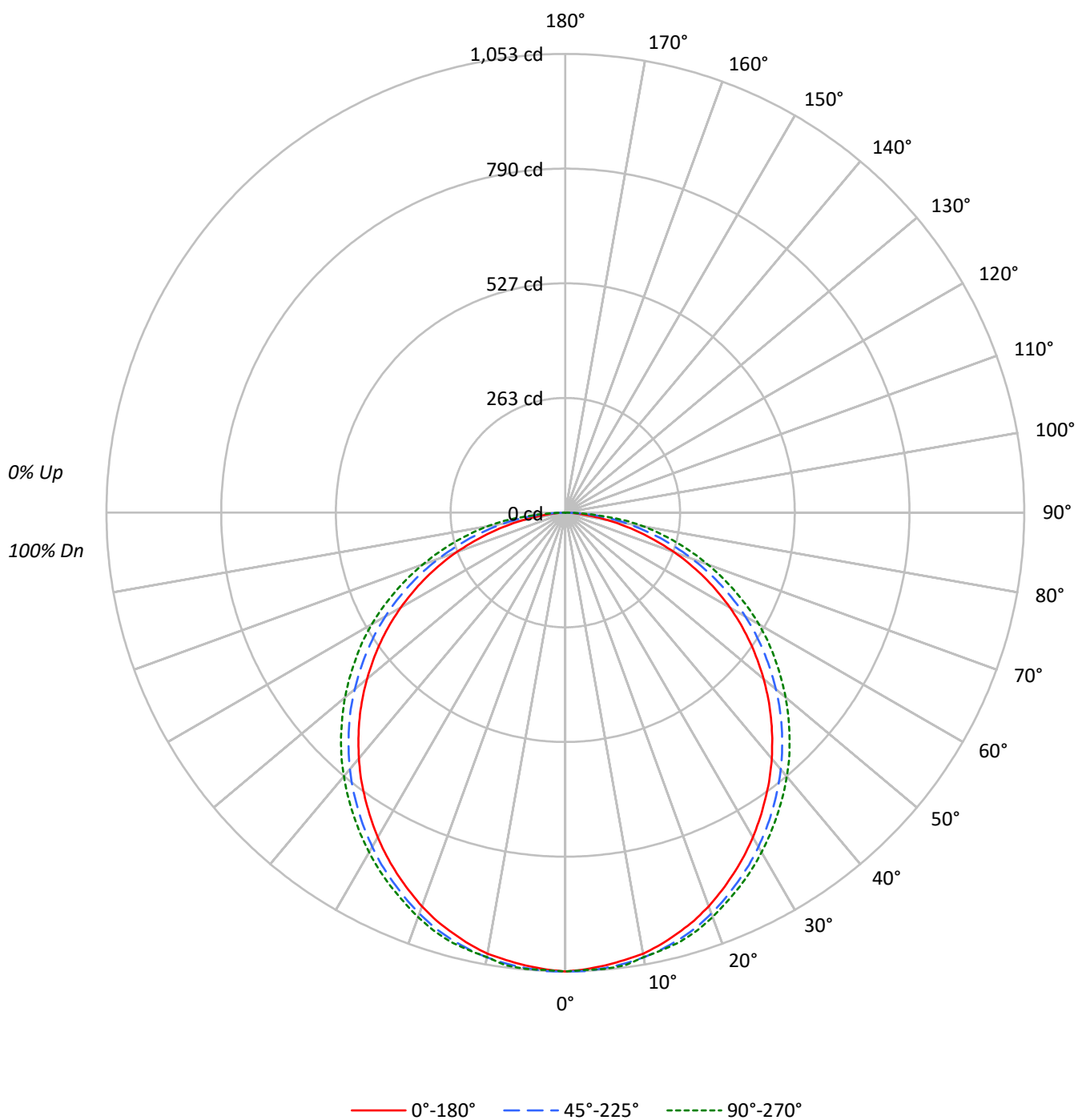
Lumens per Lamp: N/A
Luminaire Lumens: 3064.0 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	3298	3298	3298
5°	3280	3298	3305
10°	3269	3297	3295
15°	3239	3286	3306
20°	3205	3264	3292
25°	3159	3231	3273
30°	3112	3203	3256
35°	3061	3172	3240
40°	3012	3144	3230
45°	2957	3111	3223
50°	2893	3073	3214
55°	2821	3034	3210
60°	2732	2989	3211
65°	2608	2925	3194
70°	2438	2836	3186
75°	2161	2727	3198
80°	1760	2591	3293
85°	1135	2393	2842

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3337 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.7	3.3
10°-20°	285.4	9.3
20°-30°	430.4	14.0
30°-40°	517.9	16.9
40°-50°	540.2	17.6
50°-60°	495.1	16.2
60°-70°	388.8	12.7
70°-80°	236.6	7.7
80°-90°	70.0	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°	815.5	26.6
0°-40°	1333.3	43.5
0°-60°	2368.6	77.3
0°-90°	3064.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3064.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1053	1053	1053	1053	1053	
5°	1043	1050	1049	1048	1051	99
15°	999	1009	1014	1015	1020	282
25°	914	927	935	941	947	421
35°	801	813	830	842	848	501
45°	668	682	703	719	728	515
55°	517	530	556	578	588	462
65°	352	365	395	421	431	348
75°	179	195	225	252	264	189
85°	32	45	67	74	79	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1053.3	1053.3	1053.3	1053.3	1053.3
2.5°	1049.3	1054.6	1053.3	1048.7	1050.7
5°	1043.4	1050.0	1049.3	1048.0	1051.3
7.5°	1036.2	1043.4	1044.1	1044.1	1048.0
10°	1028.2	1035.5	1036.8	1034.8	1036.2
12.5°	1015.1	1023.6	1026.3	1026.3	1028.2
15°	999.2	1009.1	1013.7	1015.1	1019.7
17.5°	982.1	992.7	998.6	1001.9	1005.8
20°	961.7	972.9	979.5	983.4	988.0
22.5°	938.6	951.1	958.4	962.3	967.6
25°	914.2	926.7	935.3	941.2	947.2
27.5°	888.5	900.4	912.2	919.5	924.8
30°	860.8	873.4	885.9	895.1	900.4
32.5°	831.2	844.4	858.9	868.7	874.7
35°	800.8	813.4	829.9	841.7	847.6
37.5°	769.9	783.1	800.2	812.7	820.0
40°	736.9	750.8	769.2	783.1	790.3
42.5°	702.6	715.8	736.3	752.1	760.6
45°	667.7	681.5	702.6	719.1	727.7
47.5°	631.5	644.6	667.7	686.8	694.1
50°	593.9	606.4	630.8	651.2	659.8
52.5°	555.7	568.8	593.2	615.0	624.2
55°	516.8	529.9	555.7	578.1	587.9
57.5°	477.2	490.4	516.8	539.8	551.7
60°	436.3	449.5	477.2	500.9	512.8
62.5°	394.2	408.0	436.3	460.7	473.3
65°	352.0	365.2	394.8	421.2	431.1
67.5°	309.8	323.0	352.0	378.3	390.2
70°	266.3	281.5	309.8	337.5	348.0
72.5°	220.8	237.9	266.3	295.3	305.8
75°	178.6	195.1	225.4	252.4	264.3
77.5°	137.1	154.9	183.2	210.9	222.8
80°	97.6	114.7	143.7	170.1	182.6
82.5°	62.0	77.1	106.1	129.8	139.1
85°	31.6	44.8	66.6	74.5	79.1
87.5°	9.2	15.8	23.7	29.7	33.0
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	15.65	17.31	16.01	17.62	17.93	16.38	18.04	16.75	18.35	18.67
	3H	17.41	18.92	17.79	19.25	19.61	18.46	19.96	18.84	20.29	20.65
	4H	18.03	19.45	18.43	19.80	20.18	19.32	20.74	19.72	21.09	21.47
	6H	18.44	19.76	18.85	20.12	20.51	20.07	21.39	20.48	21.75	22.14
	8H	18.55	19.81	18.97	20.19	20.59	20.36	21.62	20.79	22.01	22.41
	12H	18.59	19.80	19.02	20.18	20.61	20.56	21.77	20.99	22.15	22.58
4H	2H	16.41	17.83	16.81	18.18	18.56	16.99	18.40	17.38	18.75	19.13
	3H	18.41	19.60	18.81	20.00	20.40	19.30	20.49	19.71	20.89	21.29
	4H	19.15	20.23	19.58	20.64	21.08	20.32	21.40	20.75	21.81	22.25
	6H	19.68	20.63	20.13	21.07	21.52	21.22	22.17	21.67	22.61	23.07
	8H	19.82	20.71	20.28	21.15	21.61	21.59	22.48	22.05	22.92	23.38
	12H	19.90	20.70	20.38	21.17	21.64	21.84	22.64	22.32	23.12	23.59
8H	4H	19.59	20.48	20.05	20.92	21.39	20.61	21.50	21.07	21.94	22.41
	6H	20.26	21.00	20.75	21.49	21.96	21.67	22.41	22.16	22.90	23.37
	8H	20.47	21.13	20.97	21.64	22.12	22.14	22.81	22.65	23.31	23.80
	12H	20.60	21.19	21.11	21.68	22.24	22.50	23.09	23.00	23.57	24.13
12H	4H	19.67	20.48	20.15	20.95	21.42	20.64	21.44	21.12	21.92	22.38
	6H	20.38	21.05	20.89	21.55	22.04	21.72	22.39	22.23	22.89	23.38
	8H	20.66	21.25	21.16	21.74	22.30	22.26	22.85	22.77	23.34	23.90