

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: P1587624

Luminaire Tested: 22CZSP-SB-33HE-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587624
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-L935-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 3000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

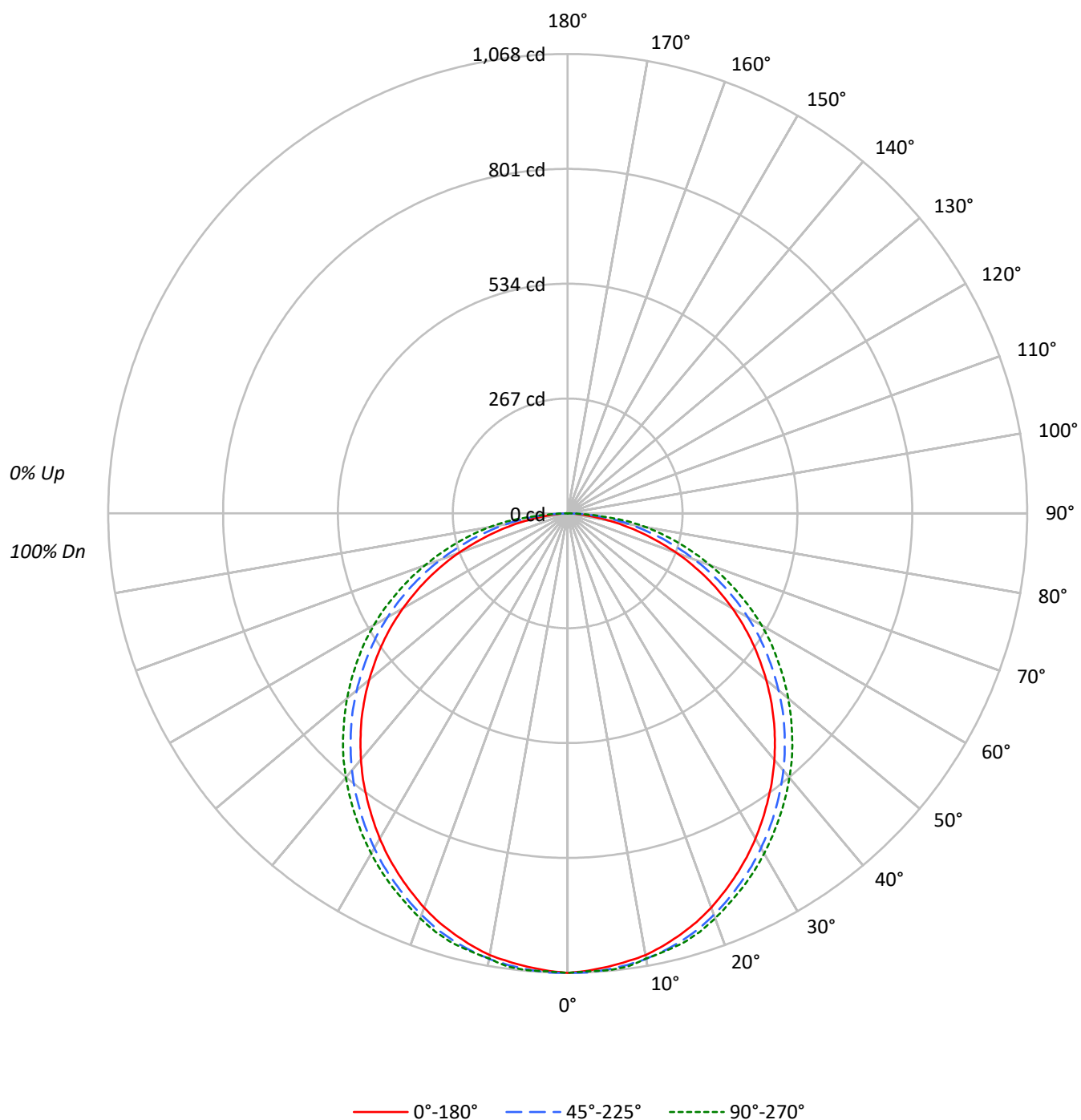
Lumens per Lamp: N/A
Luminaire Lumens: 3108.0 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	94	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	45	39		50
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3346	3346	3346
5°	3327	3346	3352
10°	3316	3344	3342
15°	3286	3334	3353
20°	3251	3311	3340
25°	3204	3278	3320
30°	3157	3249	3302
35°	3105	3218	3287
40°	3056	3190	3277
45°	2999	3156	3269
50°	2935	3117	3260
55°	2862	3077	3256
60°	2772	3032	3258
65°	2645	2967	3240
70°	2473	2877	3232
75°	2192	2767	3244
80°	1785	2629	3340
85°	1153	2425	2881

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3385 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	3.3
10°-20°	289.5	9.3
20°-30°	436.5	14.0
30°-40°	525.3	16.9
40°-50°	547.9	17.6
50°-60°	502.2	16.2
60°-70°	394.4	12.7
70°-80°	240.0	7.7
80°-90°	71.0	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°	827.2	26.6
0°-40°	1352.5	43.5
0°-60°	2402.6	77.3
0°-90°	3108.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3108.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1068	1068	1068	1068	1068	
5°	1058	1065	1064	1063	1066	101
15°	1014	1024	1028	1030	1034	286
25°	927	940	949	955	961	427
35°	812	825	842	854	860	508
45°	677	691	713	729	738	522
55°	524	538	564	586	596	468
65°	357	370	400	427	437	353
75°	181	198	229	256	268	192
85°	32	46	68	76	80	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1068.4	1068.4	1068.4	1068.4	1068.4
2.5°	1064.4	1069.8	1068.4	1063.7	1065.7
5°	1058.4	1065.1	1064.4	1063.1	1066.4
7.5°	1051.0	1058.4	1059.1	1059.1	1063.1
10°	1043.0	1050.4	1051.7	1049.7	1051.0
12.5°	1029.6	1038.3	1041.0	1041.0	1043.0
15°	1013.6	1023.6	1028.3	1029.6	1034.3
17.5°	996.2	1006.9	1012.9	1016.3	1020.3
20°	975.5	986.9	993.5	997.6	1002.2
22.5°	952.1	964.8	972.1	976.2	981.5
25°	927.3	940.1	948.7	954.8	960.8
27.5°	901.3	913.3	925.3	932.7	938.0
30°	873.2	885.9	898.6	908.0	913.3
32.5°	843.1	856.5	871.2	881.2	887.2
35°	812.3	825.1	841.8	853.8	859.8
37.5°	780.9	794.3	811.7	824.4	831.7
40°	747.5	761.5	780.3	794.3	801.7
42.5°	712.7	726.1	746.8	762.9	771.6
45°	677.3	691.3	712.7	729.4	738.1
47.5°	640.5	653.9	677.3	696.7	704.0
50°	602.4	615.1	639.9	660.6	669.3
52.5°	563.6	577.0	601.7	623.8	633.2
55°	524.2	537.6	563.6	586.4	596.4
57.5°	484.1	497.4	524.2	547.6	559.6
60°	442.6	456.0	484.1	508.1	520.2
62.5°	399.8	413.9	442.6	467.4	480.1
65°	357.0	370.4	400.5	427.2	437.3
67.5°	314.2	327.6	357.0	383.8	395.8
70°	270.1	285.5	314.2	342.3	353.0
72.5°	224.0	241.4	270.1	299.5	310.2
75°	181.2	197.9	228.7	256.1	268.1
77.5°	139.1	157.1	185.9	214.0	226.0
80°	99.0	116.3	145.8	172.5	185.2
82.5°	62.8	78.2	107.6	131.7	141.1
85°	32.1	45.5	67.5	75.6	80.2
87.5°	9.4	16.0	24.1	30.1	33.4
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	15.69	17.35	16.06	17.67	17.98	16.43	18.09	16.80	18.40	18.72
	3H	17.46	18.97	17.84	19.29	19.65	18.51	20.01	18.89	20.34	20.70
	4H	18.08	19.50	18.48	19.85	20.22	19.37	20.79	19.77	21.14	21.52
	6H	18.49	19.81	18.90	20.17	20.56	20.12	21.44	20.53	21.80	22.19
	8H	18.59	19.85	19.02	20.24	20.64	20.41	21.67	20.84	22.06	22.46
	12H	18.64	19.85	19.07	20.23	20.66	20.61	21.82	21.04	22.20	22.63
4H	2H	16.46	17.88	16.86	18.23	18.61	17.04	18.45	17.43	18.80	19.18
	3H	18.45	19.65	18.86	20.05	20.45	19.35	20.54	19.76	20.94	21.34
	4H	19.20	20.28	19.63	20.69	21.13	20.37	21.45	20.80	21.86	22.30
	6H	19.73	20.68	20.18	21.12	21.57	21.27	22.22	21.72	22.66	23.12
	8H	19.87	20.76	20.33	21.20	21.66	21.64	22.53	22.10	22.97	23.43
	12H	19.95	20.75	20.43	21.22	21.69	21.89	22.69	22.37	23.17	23.64
8H	4H	19.64	20.53	20.10	20.97	21.44	20.66	21.55	21.12	21.99	22.46
	6H	20.31	21.05	20.80	21.53	22.01	21.72	22.46	22.21	22.95	23.42
	8H	20.52	21.18	21.02	21.69	22.17	22.19	22.86	22.70	23.36	23.85
	12H	20.65	21.24	21.16	21.73	22.29	22.55	23.14	23.05	23.62	24.18
12H	4H	19.72	20.52	20.20	21.00	21.47	20.69	21.49	21.17	21.97	22.43
	6H	20.43	21.10	20.94	21.60	22.09	21.77	22.44	22.28	22.94	23.43
	8H	20.71	21.30	21.21	21.79	22.34	22.31	22.90	22.82	23.39	23.95