

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: P1586345

Luminaire Tested: 22CZSP-33HE-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-668-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-33HE-L935
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 3000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

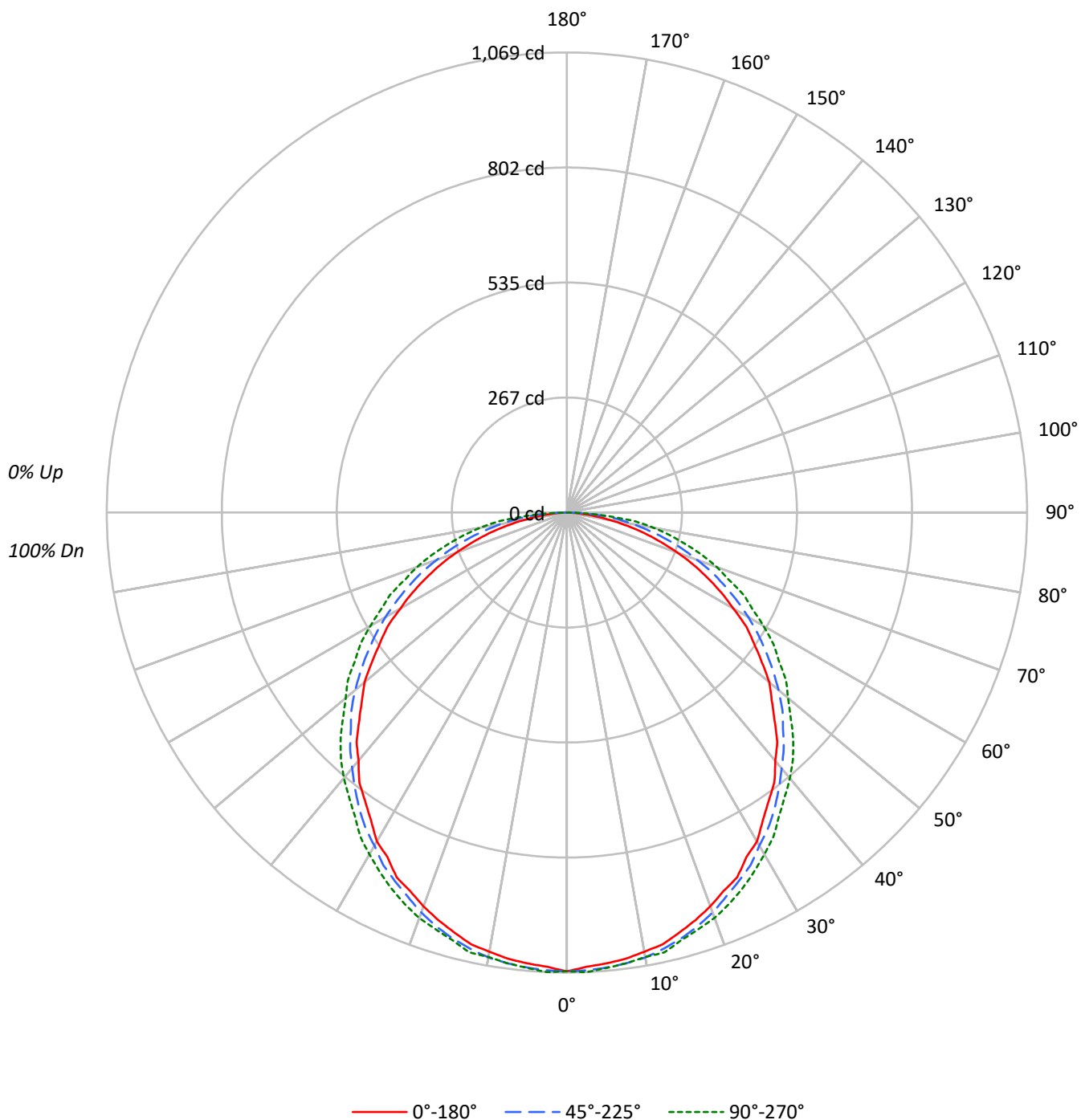
Lumens per Lamp: N/A
Luminaire Lumens: 3140.0 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45		56	50	44		55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39		51	44	39		49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35		46	40	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		41	35	31	29
9	56	42	34	28	54	41	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3338	3338	3338
5°	3306	3336	3339
10°	3295	3338	3335
15°	3276	3322	3335
20°	3245	3296	3341
25°	3232	3265	3332
30°	3191	3233	3316
35°	3124	3213	3286
40°	3078	3172	3294
45°	3020	3143	3292
50°	2990	3126	3266
55°	2894	3083	3282
60°	2797	3049	3302
65°	2676	3003	3359
70°	2515	2945	3394
75°	2266	2893	3463
80°	1854	2840	3689
85°	1207	2831	3449

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3870 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.8	3.2
10°-20°	288.6	9.2
20°-30°	436.1	13.9
30°-40°	526.0	16.8
40°-50°	549.8	17.5
50°-60°	507.0	16.1
60°-70°	401.8	12.8
70°-80°	251.2	8.0
80°-90°	78.8	2.5
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°	825.4	26.3
0°-40°	1351.4	43.0
0°-60°	2408.2	76.7
0°-90°	3140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3140.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1066	1066	1066	1066	1066	
5°	1052	1056	1061	1065	1062	100
15°	1010	1015	1025	1032	1029	285
25°	935	933	945	958	964	429
35°	817	827	840	855	860	513
45°	682	692	710	728	743	528
55°	530	543	565	596	601	475
65°	361	376	405	437	453	358
75°	187	203	239	273	286	197
85°	34	48	79	92	96	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1066.1	1066.1	1066.1	1066.1	1066.1
2.5°	1056.5	1061.3	1065.1	1064.1	1068.9
5°	1051.7	1056.5	1061.3	1065.1	1062.2
7.5°	1045.9	1050.7	1056.5	1062.2	1056.5
10°	1036.3	1039.2	1049.7	1050.7	1048.8
12.5°	1027.6	1030.5	1038.2	1044.9	1046.9
15°	1010.4	1015.2	1024.8	1031.5	1028.6
17.5°	993.1	999.8	1008.4	1015.2	1015.2
20°	973.9	978.7	989.2	994.0	1002.7
22.5°	951.8	957.5	966.2	979.6	984.4
25°	935.4	932.6	945.0	958.5	964.3
27.5°	902.8	906.6	923.9	936.4	941.2
30°	882.6	884.5	894.1	911.4	917.2
32.5°	847.1	852.8	870.1	882.6	893.2
35°	817.3	826.9	840.4	854.8	859.6
37.5°	791.4	793.3	808.7	827.9	831.7
40°	753.0	764.5	776.0	800.0	805.8
42.5°	723.2	729.0	745.3	768.3	777.0
45°	681.9	691.5	709.7	728.0	743.4
47.5°	645.4	655.0	679.0	702.1	704.9
50°	613.7	617.5	641.6	667.5	670.4
52.5°	570.5	580.1	603.1	632.0	641.6
55°	530.1	542.6	564.7	595.5	601.2
57.5°	494.6	500.4	526.3	557.0	568.6
60°	446.6	462.9	486.9	516.7	527.3
62.5°	405.3	420.7	446.6	474.4	486.0
65°	361.1	376.5	405.3	437.0	453.3
67.5°	318.9	331.3	365.9	398.6	406.3
70°	274.7	289.1	321.7	355.4	370.7
72.5°	228.6	244.9	281.4	313.1	329.4
75°	187.3	202.6	239.1	272.8	286.2
77.5°	144.1	161.3	196.9	230.5	245.9
80°	102.8	120.1	157.5	191.1	204.6
82.5°	66.3	84.5	120.1	149.8	161.3
85°	33.6	48.0	78.8	92.2	96.0
87.5°	10.6	17.3	26.9	30.7	30.7
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	15.71	17.38	16.08	17.69	18.01	16.50	18.17	16.87	18.48	18.80
	3H	17.49	19.01	17.87	19.33	19.69	18.65	20.16	19.02	20.48	20.84
	4H	18.13	19.56	18.53	19.91	20.28	19.57	21.00	19.97	21.34	21.72
	6H	18.56	19.89	18.97	20.25	20.64	20.40	21.72	20.81	22.08	22.48
	8H	18.67	19.94	19.09	20.33	20.73	20.74	22.01	21.17	22.40	22.80
	12H	18.73	19.94	19.15	20.32	20.75	20.98	22.20	21.41	22.58	23.01
4H	2H	16.49	17.91	16.88	18.26	18.64	17.10	18.53	17.50	18.87	19.25
	3H	18.50	19.70	18.90	20.10	20.50	19.49	20.69	19.89	21.09	21.48
	4H	19.26	20.35	19.69	20.76	21.20	20.57	21.66	21.00	22.08	22.51
	6H	19.80	20.76	20.26	21.20	21.66	21.57	22.53	22.02	22.97	23.42
	8H	19.96	20.86	20.42	21.30	21.76	22.00	22.89	22.46	23.34	23.80
	12H	20.05	20.86	20.53	21.33	21.80	22.31	23.12	22.79	23.59	24.06
8H	4H	19.74	20.63	20.19	21.08	21.54	20.88	21.78	21.34	22.22	22.68
	6H	20.43	21.18	20.92	21.66	22.14	22.04	22.79	22.54	23.28	23.75
	8H	20.65	21.33	21.16	21.83	22.32	22.59	23.26	23.10	23.77	24.25
	12H	20.80	21.40	21.31	21.89	22.45	23.02	23.61	23.52	24.10	24.66
12H	4H	19.83	20.64	20.31	21.12	21.58	20.91	21.72	21.39	22.19	22.66
	6H	20.57	21.25	21.08	21.75	22.24	22.10	22.78	22.61	23.28	23.76
	8H	20.88	21.47	21.38	21.96	22.52	22.72	23.31	23.22	23.80	24.36