

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: P1586344

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586344
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-33HE-L935-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 3000 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

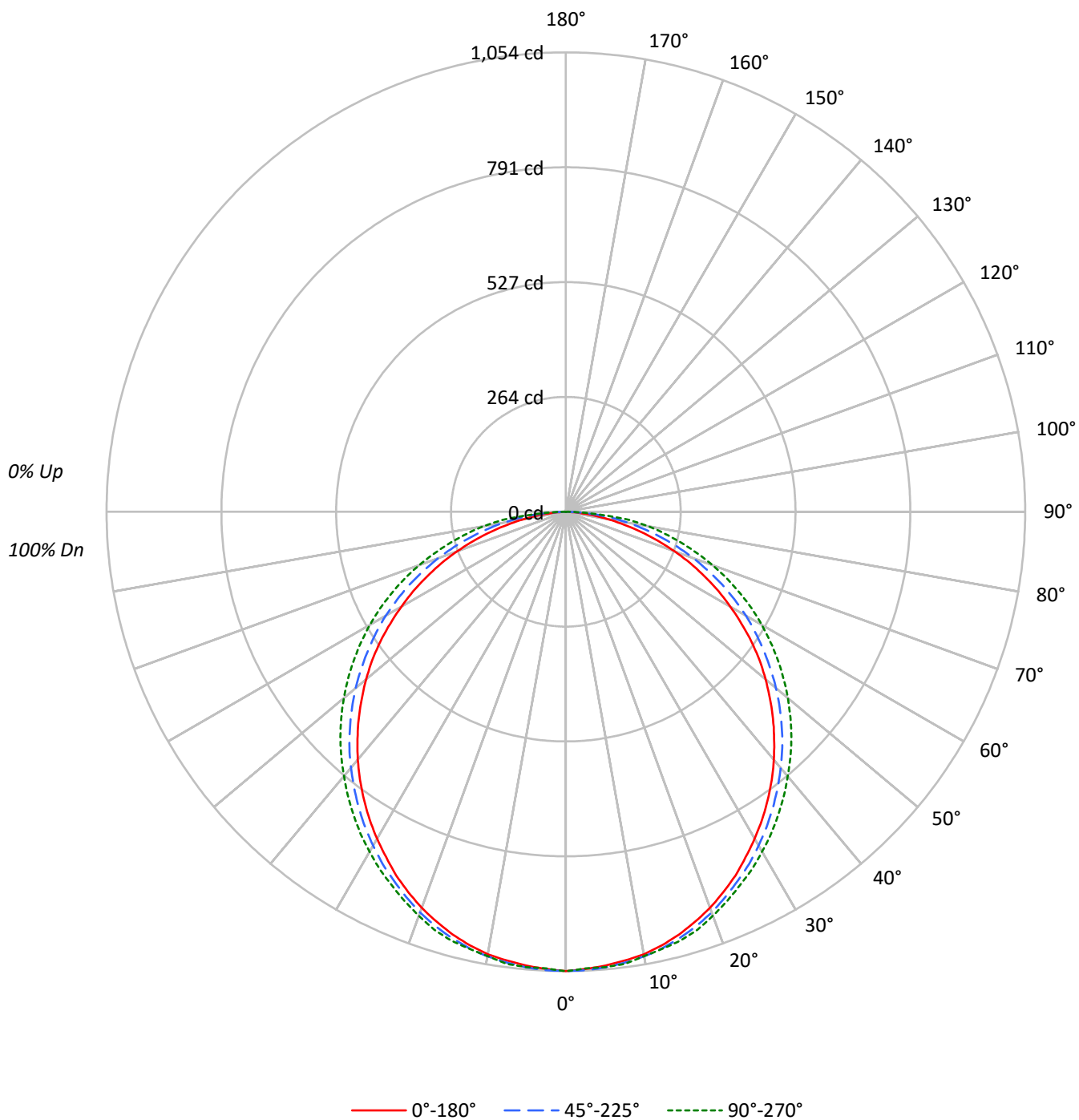
Lumens per Lamp: N/A
Luminaire Lumens: 3077.0 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	93	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	65	61		69
4	82	69	60	54	79	68	60	53	66	58	52		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	44	39		50
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3300	3300	3300
5°	3285	3298	3296
10°	3278	3293	3291
15°	3255	3281	3301
20°	3222	3260	3287
25°	3182	3226	3266
30°	3132	3198	3257
35°	3087	3167	3247
40°	3036	3135	3237
45°	2978	3103	3241
50°	2914	3066	3240
55°	2838	3022	3244
60°	2732	2990	3252
65°	2607	2932	3262
70°	2429	2850	3276
75°	2164	2737	3308
80°	1791	2606	3469
85°	1164	2353	3032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3579 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.7	3.2
10°-20°	285.4	9.3
20°-30°	430.5	14.0
30°-40°	518.5	16.8
40°-50°	541.5	17.6
50°-60°	497.3	16.2
60°-70°	391.7	12.7
70°-80°	240.3	7.8
80°-90°	72.3	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°	815.5	26.5
0°-40°	1334.0	43.4
0°-60°	2372.7	77.1
0°-90°	3077.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3077.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1045	1046	1049	1053	1049	99
15°	1004	1006	1012	1018	1018	283
25°	921	923	934	945	945	424
35°	808	812	828	845	849	505
45°	672	680	701	725	732	518
55°	520	529	554	585	594	464
65°	352	364	396	429	440	348
75°	179	193	226	262	273	190
85°	32	45	66	83	84	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1054.0	1054.0	1054.0	1054.0	1054.0
2.5°	1049.9	1051.9	1052.6	1053.3	1048.6
5°	1045.2	1046.5	1049.2	1052.6	1048.6
7.5°	1038.4	1039.8	1043.2	1047.9	1045.9
10°	1031.0	1031.7	1035.7	1039.1	1035.0
12.5°	1018.8	1020.9	1025.6	1028.3	1026.9
15°	1004.0	1006.0	1012.1	1018.2	1018.2
17.5°	986.4	989.1	996.6	1004.7	1005.3
20°	966.9	968.9	978.3	986.4	986.4
22.5°	944.6	947.3	956.7	965.5	966.9
25°	920.9	923.0	933.8	945.3	945.3
27.5°	893.3	897.3	910.8	922.3	925.0
30°	866.3	869.6	884.5	898.7	900.7
32.5°	837.9	841.9	857.5	873.0	876.4
35°	807.5	811.6	828.4	845.3	849.4
37.5°	775.8	780.5	798.1	817.6	821.7
40°	742.7	748.1	767.0	787.9	792.0
42.5°	707.6	715.0	735.3	756.9	763.0
45°	672.5	679.9	700.8	725.1	731.9
47.5°	635.3	644.1	665.7	691.4	698.8
50°	598.2	607.0	629.3	656.9	665.1
52.5°	560.4	569.2	592.1	621.2	629.9
55°	519.9	529.3	553.6	584.7	594.2
57.5°	478.0	490.2	515.8	547.6	557.0
60°	436.2	448.3	477.4	508.4	519.2
62.5°	395.0	406.5	436.2	469.2	480.7
65°	351.8	363.9	395.7	428.7	440.2
67.5°	309.2	321.4	353.1	387.6	399.7
70°	265.3	278.8	311.3	345.7	357.8
72.5°	221.5	235.6	268.7	303.8	315.3
75°	178.9	193.1	226.2	262.0	273.4
77.5°	137.1	152.6	185.0	221.5	232.3
80°	99.3	114.1	144.5	180.3	192.4
82.5°	63.5	76.3	106.7	140.4	149.2
85°	32.4	44.6	65.5	83.0	84.4
87.5°	10.1	14.2	21.6	32.4	33.1
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	15.63	17.29	15.99	17.60	17.92	16.46	18.12	16.82	18.43	18.75
	3H	17.38	18.89	17.76	19.22	19.57	18.57	20.08	18.95	20.41	20.77
	4H	18.00	19.42	18.40	19.77	20.14	19.46	20.88	19.86	21.23	21.61
	6H	18.41	19.73	18.82	20.10	20.49	20.24	21.56	20.65	21.93	22.32
	8H	18.52	19.78	18.94	20.17	20.57	20.56	21.83	20.99	22.21	22.61
	12H	18.57	19.78	19.00	20.16	20.59	20.77	21.99	21.20	22.37	22.79
4H	2H	16.40	17.82	16.80	18.17	18.54	17.04	18.47	17.44	18.81	19.19
	3H	18.38	19.57	18.78	19.97	20.37	19.40	20.60	19.81	20.99	21.39
	4H	19.11	20.20	19.54	20.61	21.05	20.45	21.54	20.88	21.95	22.39
	6H	19.64	20.59	20.09	21.03	21.49	21.40	22.36	21.86	22.80	23.25
	8H	19.79	20.68	20.25	21.12	21.58	21.80	22.69	22.26	23.13	23.60
	12H	19.87	20.67	20.35	21.15	21.62	22.08	22.88	22.56	23.36	23.82
8H	4H	19.57	20.46	20.03	20.90	21.37	20.74	21.63	21.20	22.07	22.54
	6H	20.23	20.98	20.72	21.46	21.94	21.85	22.60	22.34	23.08	23.56
	8H	20.44	21.11	20.95	21.62	22.10	22.36	23.03	22.87	23.54	24.02
	12H	20.58	21.17	21.09	21.66	22.22	22.75	23.34	23.26	23.83	24.39
12H	4H	19.66	20.46	20.14	20.94	21.41	20.77	21.57	21.24	22.04	22.51
	6H	20.36	21.03	20.87	21.54	22.02	21.90	22.57	22.41	23.07	23.56
	8H	20.64	21.23	21.15	21.72	22.28	22.48	23.07	22.98	23.56	24.12