

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: P1586343

Luminaire Tested: 22CZSP-33HE-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586343
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-L930
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 3000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

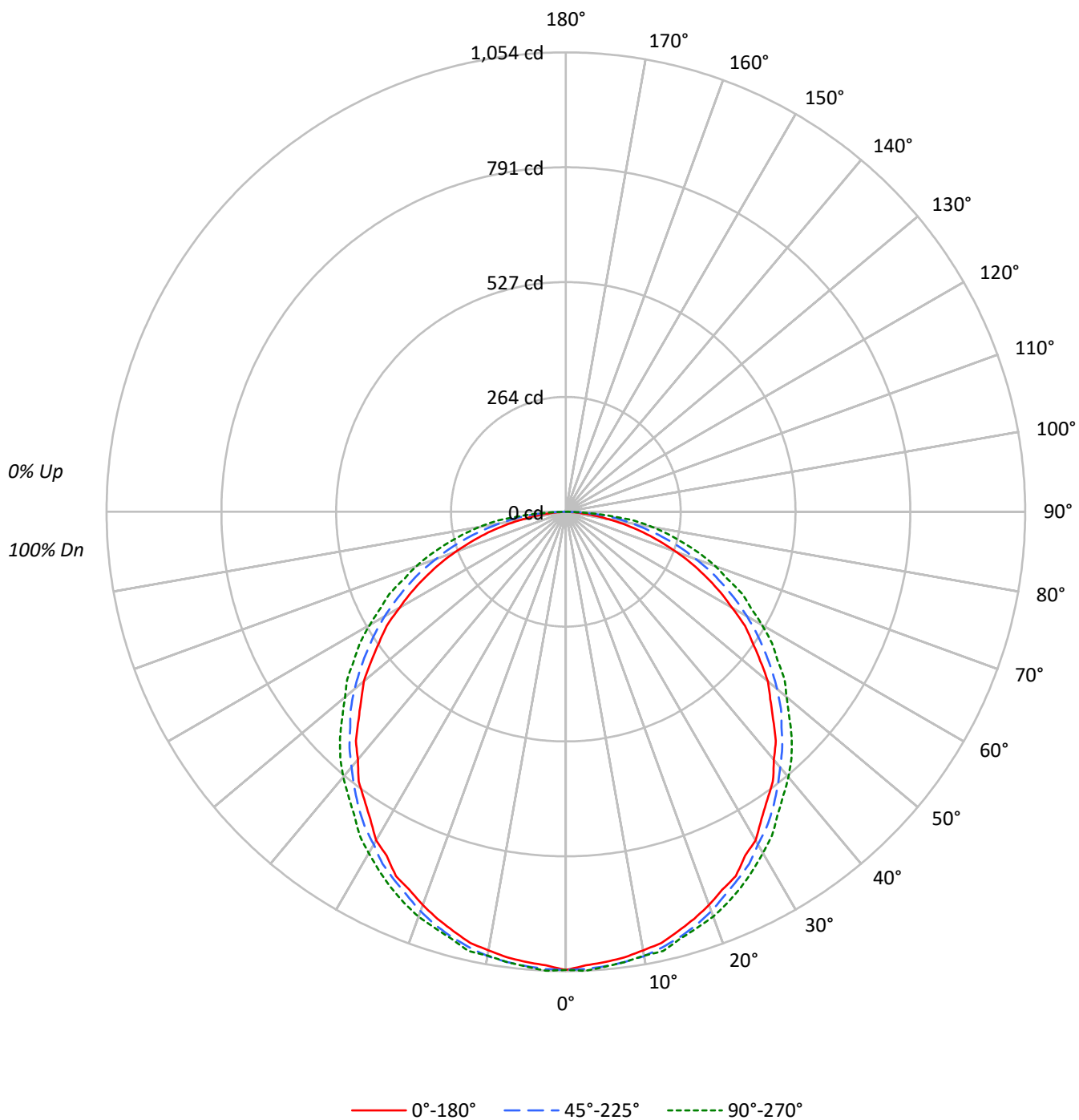
Lumens per Lamp: N/A
Luminaire Lumens: 3096.0 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	3291	3291	3291
5°	3259	3289	3292
10°	3249	3291	3288
15°	3229	3276	3288
20°	3200	3250	3294
25°	3187	3219	3285
30°	3147	3188	3270
35°	3081	3167	3240
40°	3035	3127	3248
45°	2977	3099	3246
50°	2948	3082	3220
55°	2854	3040	3236
60°	2757	3007	3256
65°	2638	2961	3312
70°	2479	2904	3346
75°	2235	2853	3414
80°	1827	2800	3637
85°	1189	2792	3402

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3817 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	3.2
10°-20°	284.5	9.2
20°-30°	430.0	13.9
30°-40°	518.6	16.8
40°-50°	542.1	17.5
50°-60°	499.9	16.1
60°-70°	396.1	12.8
70°-80°	247.7	8.0
80°-90°	77.7	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°	813.8	26.3
0°-40°	1332.4	43.0
0°-60°	2374.5	76.7
0°-90°	3096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3096.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1051	1051	1051	1051	1051	
5°	1037	1042	1046	1050	1047	99
15°	996	1001	1010	1017	1014	281
25°	922	920	932	945	951	423
35°	806	815	829	843	848	505
45°	672	682	700	718	733	520
55°	523	535	557	587	593	469
65°	356	371	400	431	447	353
75°	185	200	236	269	282	195
85°	33	47	78	91	95	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1051.1	1051.1	1051.1	1051.1	1051.1
2.5°	1041.7	1046.4	1050.2	1049.2	1054.0
5°	1036.9	1041.7	1046.4	1050.2	1047.3
7.5°	1031.2	1036.0	1041.7	1047.3	1041.7
10°	1021.8	1024.6	1035.0	1036.0	1034.1
12.5°	1013.2	1016.1	1023.7	1030.3	1032.2
15°	996.2	1000.9	1010.4	1017.0	1014.2
17.5°	979.2	985.8	994.3	1000.9	1000.9
20°	960.2	964.9	975.4	980.1	988.6
22.5°	938.4	944.1	952.6	965.9	970.6
25°	922.3	919.5	931.8	945.1	950.7
27.5°	890.1	893.9	911.0	923.3	928.0
30°	870.3	872.1	881.6	898.7	904.3
32.5°	835.2	840.9	857.9	870.3	880.7
35°	805.9	815.3	828.6	842.8	847.5
37.5°	780.3	782.2	797.3	816.3	820.1
40°	742.4	753.8	765.1	788.8	794.5
42.5°	713.1	718.7	734.8	757.6	766.1
45°	672.3	681.8	699.8	717.8	732.9
47.5°	636.4	645.8	669.5	692.2	695.1
50°	605.1	608.9	632.6	658.1	661.0
52.5°	562.5	572.0	594.7	623.1	632.6
55°	522.7	535.0	556.8	587.1	592.8
57.5°	487.7	493.4	518.9	549.2	560.6
60°	440.3	456.4	480.1	509.5	519.9
62.5°	399.6	414.8	440.3	467.8	479.2
65°	356.1	371.2	399.6	430.9	447.0
67.5°	314.4	326.7	360.8	393.0	400.6
70°	270.8	285.0	317.2	350.4	365.5
72.5°	225.4	241.5	277.5	308.7	324.8
75°	184.7	199.8	235.8	268.9	282.2
77.5°	142.0	159.1	194.1	227.3	242.4
80°	101.3	118.4	155.3	188.4	201.7
82.5°	65.3	83.3	118.4	147.7	159.1
85°	33.1	47.3	77.7	90.9	94.7
87.5°	10.4	17.0	26.5	30.3	30.3
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	15.66	17.33	16.03	17.65	17.96	16.45	18.12	16.82	18.43	18.75
	3H	17.45	18.96	17.82	19.28	19.64	18.60	20.11	18.97	20.44	20.80
	4H	18.08	19.51	18.48	19.86	20.23	19.52	20.95	19.92	21.30	21.67
	6H	18.51	19.84	18.92	20.20	20.59	20.35	21.67	20.76	22.04	22.43
	8H	18.62	19.89	19.05	20.28	20.68	20.69	21.96	21.12	22.35	22.75
	12H	18.68	19.89	19.10	20.27	20.70	20.94	22.15	21.36	22.53	22.96
4H	2H	16.44	17.86	16.83	18.21	18.59	17.05	18.48	17.45	18.82	19.20
	3H	18.45	19.65	18.86	20.05	20.45	19.44	20.64	19.84	21.04	21.44
	4H	19.21	20.30	19.64	20.71	21.15	20.52	21.62	20.95	22.03	22.46
	6H	19.76	20.71	20.21	21.15	21.61	21.52	22.48	21.97	22.92	23.37
	8H	19.91	20.81	20.37	21.25	21.71	21.95	22.85	22.41	23.29	23.75
	12H	20.00	20.81	20.48	21.28	21.75	22.26	23.07	22.74	23.54	24.01
8H	4H	19.69	20.59	20.15	21.03	21.49	20.83	21.73	21.29	22.17	22.63
	6H	20.38	21.13	20.87	21.61	22.09	21.99	22.74	22.49	23.23	23.70
	8H	20.61	21.28	21.11	21.78	22.27	22.54	23.21	23.05	23.72	24.20
	12H	20.75	21.35	21.26	21.84	22.40	22.97	23.57	23.47	24.05	24.61
12H	4H	19.78	20.59	20.26	21.07	21.54	20.86	21.67	21.34	22.14	22.61
	6H	20.53	21.20	21.03	21.71	22.19	22.05	22.73	22.56	23.23	23.72
	8H	20.83	21.43	21.33	21.91	22.47	22.67	23.26	23.17	23.75	24.31