

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: P1586337

Luminaire Tested: 22CZSP-33HE-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586337
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-L840
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 3000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

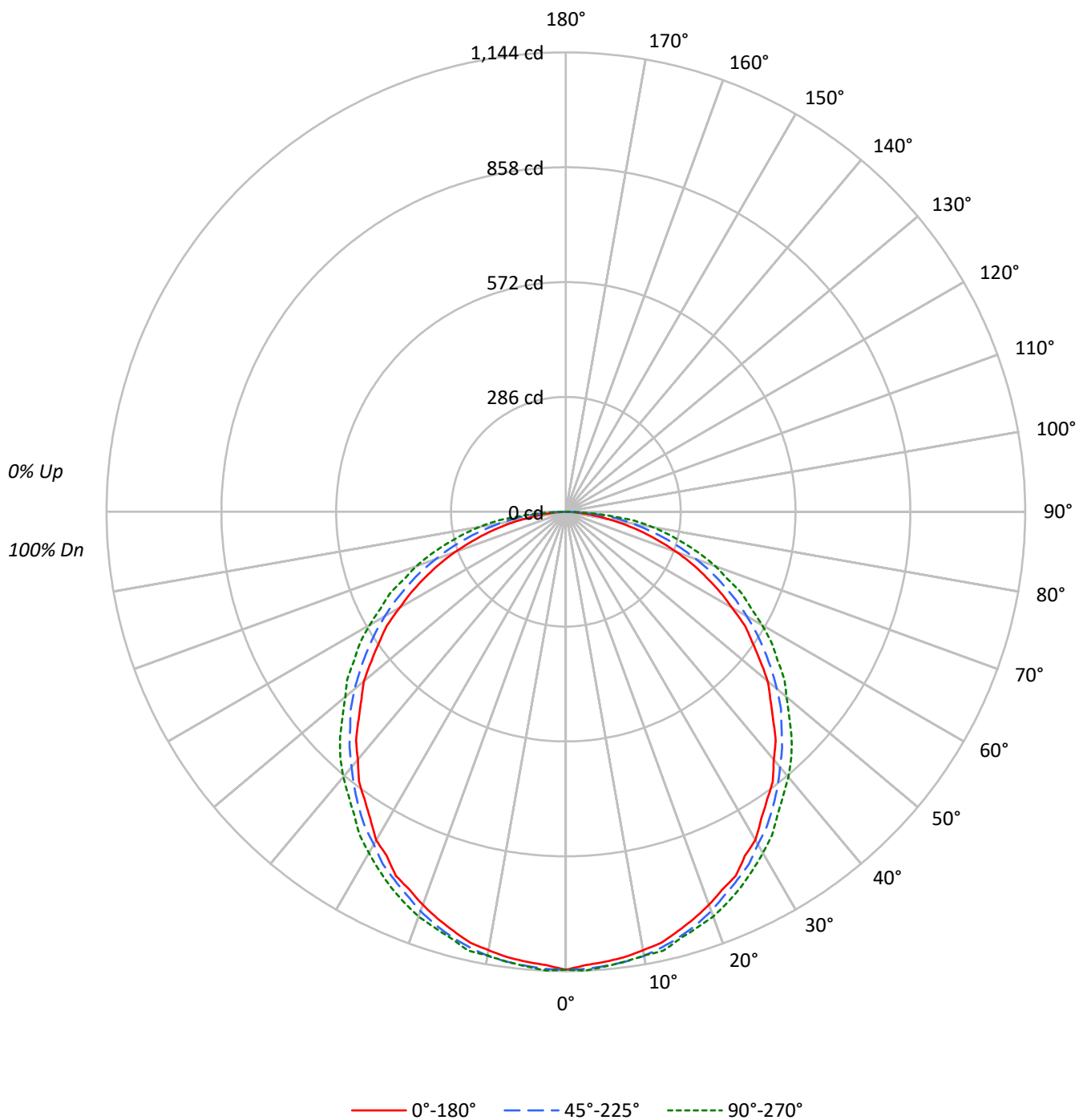
Lumens per Lamp: N/A
Luminaire Lumens: 3359.0 lumens
Efficiency: N/A
Efficacy: 154.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	50	30	10
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°	3571	3571	3571
5°	3536	3569	3572
10°	3525	3570	3567
15°	3504	3554	3567
20°	3472	3526	3574
25°	3457	3493	3564
30°	3414	3458	3548
35°	3342	3437	3515
40°	3293	3393	3524
45°	3230	3362	3521
50°	3198	3343	3493
55°	3096	3298	3511
60°	2992	3262	3532
65°	2862	3213	3593
70°	2690	3151	3631
75°	2423	3095	3705
80°	1982	3038	3946
85°	1293	3025	3690

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4141 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.8	3.2
10°-20°	308.7	9.2
20°-30°	466.5	13.9
30°-40°	562.6	16.8
40°-50°	588.2	17.5
50°-60°	542.4	16.1
60°-70°	429.8	12.8
70°-80°	268.7	8.0
80°-90°	84.3	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°	883.0	26.3
0°-40°	1445.6	43.0
0°-60°	2576.2	76.7
0°-90°	3359.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3359.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1140	1140	1140	1140	1140	
5°	1125	1130	1135	1139	1136	107
15°	1081	1086	1096	1103	1100	305
25°	1001	998	1011	1025	1032	459
35°	874	885	899	914	920	548
45°	730	740	759	779	795	565
55°	567	580	604	637	643	508
65°	386	403	434	468	485	383
75°	200	217	256	292	306	211
85°	36	51	84	99	103	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1140.4	1140.4	1140.4	1140.4	1140.4
2.5°	1130.1	1135.3	1139.4	1138.4	1143.5
5°	1125.0	1130.1	1135.3	1139.4	1136.3
7.5°	1118.8	1124.0	1130.1	1136.3	1130.1
10°	1108.6	1111.6	1122.9	1124.0	1121.9
12.5°	1099.3	1102.4	1110.6	1117.8	1119.9
15°	1080.8	1086.0	1096.2	1103.4	1100.3
17.5°	1062.3	1069.5	1078.8	1086.0	1086.0
20°	1041.8	1046.9	1058.2	1063.4	1072.6
22.5°	1018.2	1024.3	1033.6	1047.9	1053.1
25°	1000.7	997.6	1011.0	1025.3	1031.5
27.5°	965.8	969.9	988.4	1001.7	1006.8
30°	944.2	946.2	956.5	975.0	981.2
32.5°	906.2	912.3	930.8	944.2	955.5
35°	874.3	884.6	899.0	914.4	919.5
37.5°	846.6	848.6	865.1	885.6	889.7
40°	805.5	817.8	830.1	855.8	862.0
42.5°	773.6	779.8	797.3	821.9	831.2
45°	729.5	739.7	759.2	778.8	795.2
47.5°	690.4	700.7	726.4	751.0	754.1
50°	656.5	660.6	686.3	714.0	717.1
52.5°	610.3	620.5	645.2	676.0	686.3
55°	567.1	580.5	604.1	637.0	643.2
57.5°	529.1	535.3	563.0	595.9	608.2
60°	477.7	495.2	520.9	552.7	564.0
62.5°	433.6	450.0	477.7	507.5	519.9
65°	386.3	402.7	433.6	467.5	484.9
67.5°	341.1	354.5	391.4	426.4	434.6
70°	293.8	309.2	344.2	380.1	396.6
72.5°	244.5	262.0	301.0	334.9	352.4
75°	200.3	216.8	255.8	291.8	306.2
77.5°	154.1	172.6	210.6	246.6	263.0
80°	109.9	128.4	168.5	204.5	218.8
82.5°	70.9	90.4	128.4	160.3	172.6
85°	36.0	51.4	84.2	98.6	102.7
87.5°	11.3	18.5	28.8	32.9	32.9
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	15.95	17.61	16.31	17.93	18.24	16.74	18.40	17.10	18.72	19.03
	3H	17.73	19.24	18.11	19.57	19.93	18.88	20.39	19.26	20.72	21.08
	4H	18.37	19.79	18.76	20.14	20.52	19.80	21.23	20.20	21.58	21.95
	6H	18.79	20.12	19.20	20.48	20.87	20.63	21.96	21.04	22.32	22.71
	8H	18.91	20.17	19.33	20.56	20.96	20.98	22.24	21.40	22.63	23.03
	12H	18.96	20.18	19.39	20.56	20.99	21.22	22.43	21.65	22.82	23.24
4H	2H	16.72	18.15	17.12	18.49	18.87	17.33	18.76	17.73	19.11	19.48
	3H	18.73	19.93	19.14	20.33	20.73	19.72	20.92	20.13	21.32	21.72
	4H	19.49	20.58	19.92	21.00	21.43	20.81	21.90	21.24	22.31	22.75
	6H	20.04	21.00	20.49	21.44	21.89	21.80	22.76	22.26	23.20	23.66
	8H	20.19	21.09	20.65	21.53	22.00	22.23	23.13	22.69	23.57	24.03
	12H	20.28	21.09	20.76	21.56	22.03	22.54	23.35	23.02	23.83	24.30
8H	4H	19.97	20.87	20.43	21.31	21.77	21.11	22.01	21.57	22.45	22.92
	6H	20.66	21.41	21.15	21.90	22.37	22.28	23.03	22.77	23.51	23.99
	8H	20.89	21.56	21.40	22.07	22.55	22.82	23.50	23.33	24.00	24.49
	12H	21.04	21.63	21.54	22.12	22.68	23.25	23.85	23.76	24.34	24.90
12H	4H	20.07	20.88	20.55	21.35	21.82	21.14	21.95	21.62	22.43	22.89
	6H	20.81	21.48	21.32	21.99	22.47	22.34	23.01	22.84	23.51	24.00
	8H	21.11	21.71	21.62	22.20	22.76	22.95	23.55	23.46	24.04	24.60