

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: P1586336

Luminaire Tested: 22CZSP-33HE-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586336
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-L840-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 3000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

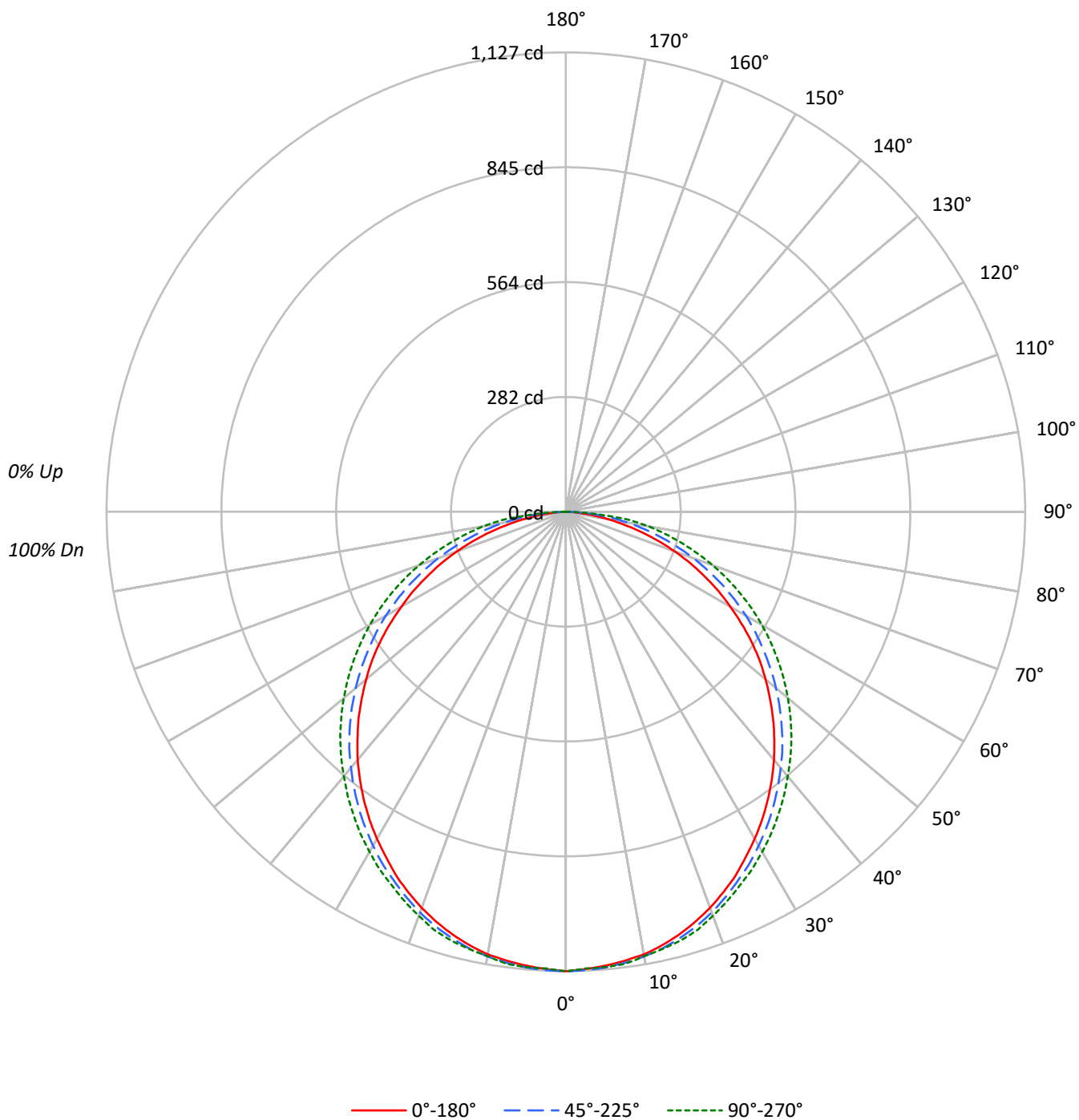
Lumens per Lamp: N/A
Luminaire Lumens: 3291.0 lumens
Efficiency: N/A
Efficacy: 151.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	3530	3530	3530
5°	3514	3527	3525
10°	3506	3522	3520
15°	3481	3509	3530
20°	3446	3487	3516
25°	3403	3451	3493
30°	3350	3420	3483
35°	3302	3387	3472
40°	3247	3353	3463
45°	3185	3320	3467
50°	3117	3279	3465
55°	3035	3233	3469
60°	2922	3198	3478
65°	2787	3136	3488
70°	2598	3048	3504
75°	2316	2927	3539
80°	1915	2786	3711
85°	1247	2515	3244

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3829 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.6	3.2
10°-20°	305.3	9.3
20°-30°	460.4	14.0
30°-40°	554.5	16.8
40°-50°	579.1	17.6
50°-60°	531.9	16.2
60°-70°	418.9	12.7
70°-80°	257.0	7.8
80°-90°	77.3	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°	872.3	26.5
0°-40°	1426.8	43.4
0°-60°	2537.8	77.1
0°-90°	3291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3291.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1127	1127	1127	1127	1127	
5°	1118	1119	1122	1126	1122	106
15°	1074	1076	1082	1089	1089	303
25°	985	987	999	1011	1011	453
35°	864	868	886	904	908	540
45°	719	727	750	776	783	555
55°	556	566	592	625	636	496
65°	376	389	423	459	471	372
75°	191	206	242	280	292	203
85°	35	48	70	89	90	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1127.3	1127.3	1127.3	1127.3	1127.3
2.5°	1122.9	1125.1	1125.8	1126.5	1121.5
5°	1117.9	1119.3	1122.2	1125.8	1121.5
7.5°	1110.6	1112.1	1115.7	1120.8	1118.6
10°	1102.7	1103.4	1107.8	1111.4	1107.0
12.5°	1089.7	1091.9	1096.9	1099.8	1098.4
15°	1073.8	1076.0	1082.5	1089.0	1089.0
17.5°	1055.0	1057.9	1065.9	1074.5	1075.3
20°	1034.1	1036.3	1046.4	1055.0	1055.0
22.5°	1010.3	1013.2	1023.3	1032.7	1034.1
25°	985.0	987.2	998.7	1011.0	1011.0
27.5°	955.4	959.7	974.2	986.4	989.3
30°	926.5	930.1	946.0	961.2	963.3
32.5°	896.2	900.5	917.1	933.7	937.3
35°	863.7	868.0	886.1	904.1	908.4
37.5°	829.7	834.8	853.6	874.5	878.8
40°	794.4	800.1	820.3	842.7	847.1
42.5°	756.8	764.7	786.4	809.5	816.0
45°	719.2	727.2	749.6	775.6	782.8
47.5°	679.5	688.9	712.0	739.5	747.4
50°	639.8	649.2	673.0	702.6	711.3
52.5°	599.4	608.8	633.3	664.4	673.8
55°	556.0	566.2	592.2	625.4	635.5
57.5°	511.3	524.3	551.7	585.7	595.8
60°	466.5	479.5	510.6	543.8	555.3
62.5°	422.4	434.7	466.5	501.9	514.2
65°	376.2	389.2	423.2	458.6	470.8
67.5°	330.7	343.7	377.7	414.5	427.5
70°	283.8	298.2	332.9	369.7	382.7
72.5°	236.9	252.0	287.4	325.0	337.2
75°	191.4	206.5	241.9	280.2	292.5
77.5°	146.6	163.2	197.9	236.9	248.4
80°	106.2	122.0	154.5	192.8	205.8
82.5°	67.9	81.6	114.1	150.2	159.6
85°	34.7	47.7	70.0	88.8	90.3
87.5°	10.8	15.2	23.1	34.7	35.4
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	15.86	17.52	16.23	17.84	18.15	16.69	18.35	17.06	18.67	18.98
	3H	17.62	19.12	17.99	19.45	19.81	18.81	20.31	19.18	20.64	21.00
	4H	18.23	19.66	18.63	20.00	20.38	19.70	21.12	20.09	21.47	21.84
	6H	18.65	19.97	19.06	20.33	20.72	20.48	21.80	20.89	22.16	22.55
	8H	18.75	20.02	19.18	20.40	20.80	20.80	22.06	21.22	22.45	22.85
	12H	18.80	20.02	19.23	20.40	20.83	21.01	22.22	21.44	22.60	23.03
4H	2H	16.63	18.05	17.03	18.40	18.78	17.28	18.70	17.68	19.05	19.42
	3H	18.61	19.81	19.02	20.20	20.60	19.63	20.83	20.04	21.23	21.63
	4H	19.35	20.43	19.78	20.84	21.28	20.69	21.77	21.12	22.18	22.62
	6H	19.87	20.83	20.33	21.27	21.72	21.64	22.59	22.09	23.03	23.48
	8H	20.02	20.91	20.48	21.35	21.82	22.04	22.93	22.49	23.37	23.83
	12H	20.10	20.91	20.58	21.38	21.85	22.31	23.12	22.79	23.59	24.06
8H	4H	19.80	20.70	20.26	21.14	21.60	20.97	21.87	21.43	22.31	22.77
	6H	20.47	21.21	20.96	21.70	22.17	22.09	22.83	22.58	23.32	23.79
	8H	20.68	21.35	21.18	21.85	22.33	22.60	23.27	23.11	23.77	24.26
	12H	20.82	21.41	21.32	21.90	22.46	22.98	23.58	23.49	24.07	24.62
12H	4H	19.89	20.70	20.37	21.17	21.64	21.00	21.80	21.48	22.28	22.74
	6H	20.60	21.27	21.10	21.77	22.26	22.13	22.80	22.64	23.31	23.79
	8H	20.88	21.47	21.38	21.96	22.52	22.71	23.30	23.22	23.79	24.35