

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: P1586572

Luminaire Tested: 22CZSP-A-33HE-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586572
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-A-33HE-L830-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 3000 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

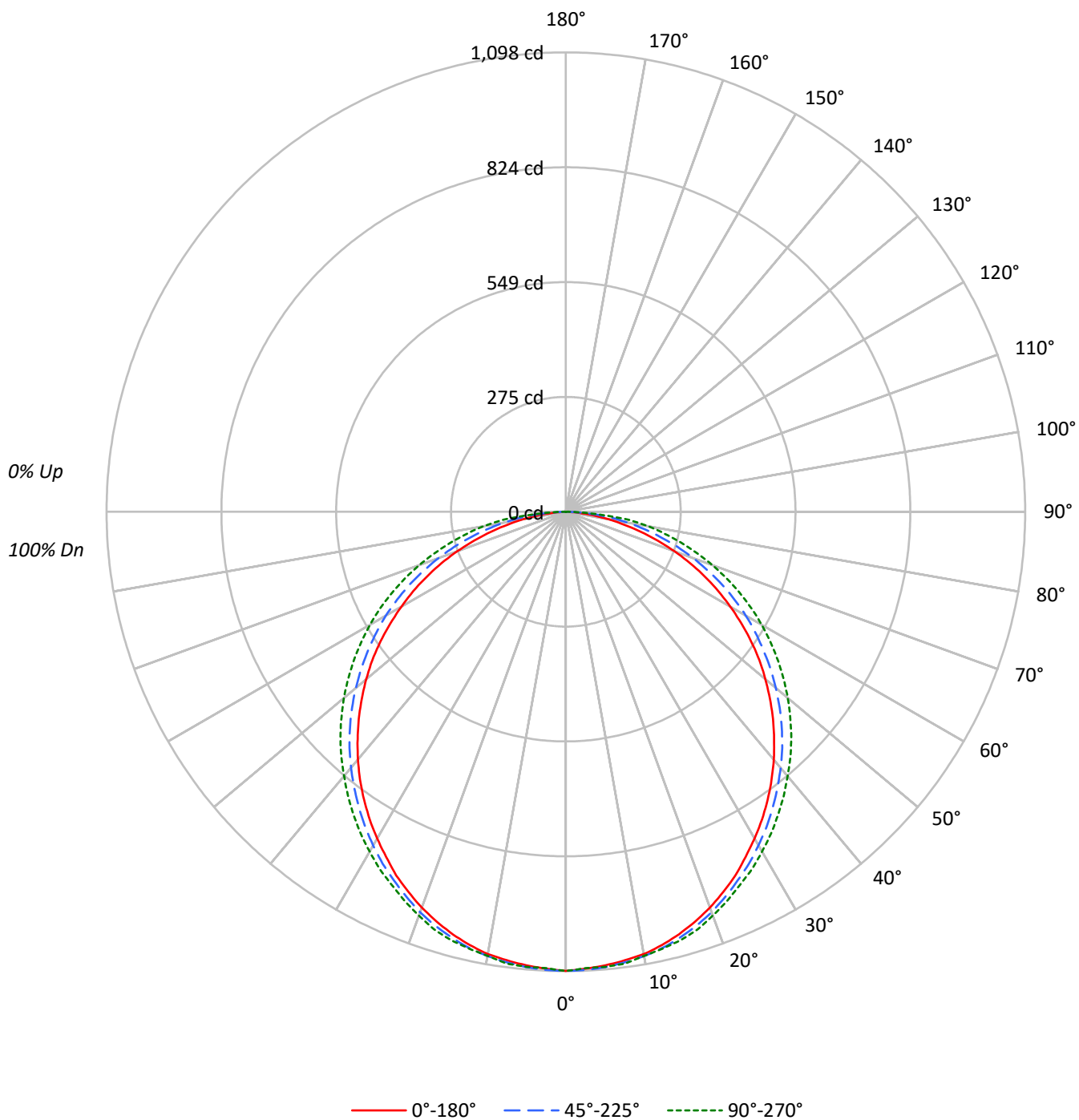
Lumens per Lamp: N/A
Luminaire Lumens: 3204.0 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	3437	3437	3437
5°	3421	3434	3432
10°	3414	3429	3427
15°	3389	3417	3437
20°	3355	3395	3423
25°	3313	3359	3401
30°	3261	3330	3391
35°	3214	3297	3381
40°	3161	3265	3371
45°	3101	3232	3375
50°	3034	3192	3373
55°	2955	3147	3378
60°	2844	3113	3386
65°	2714	3053	3396
70°	2530	2967	3411
75°	2254	2849	3444
80°	1863	2714	3614
85°	1211	2450	3158

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3728 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.8	3.2
10°-20°	297.2	9.3
20°-30°	448.2	14.0
30°-40°	539.9	16.8
40°-50°	563.8	17.6
50°-60°	517.8	16.2
60°-70°	407.8	12.7
70°-80°	250.2	7.8
80°-90°	75.3	2.3
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°	849.2	26.5
0°-40°	1389.1	43.4
0°-60°	2470.7	77.1
0°-90°	3204.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3204.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1098	1098	1098	1098	1098	
5°	1088	1090	1092	1096	1092	103
15°	1045	1048	1054	1060	1060	295
25°	959	961	972	984	984	441
35°	841	845	863	880	884	526
45°	700	708	730	755	762	540
55°	541	551	576	609	619	483
65°	366	379	412	446	458	362
75°	186	201	236	273	285	198
85°	34	46	68	86	88	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1097.5	1097.5	1097.5	1097.5	1097.5
2.5°	1093.2	1095.3	1096.0	1096.8	1091.8
5°	1088.3	1089.7	1092.5	1096.0	1091.8
7.5°	1081.3	1082.7	1086.2	1091.1	1089.0
10°	1073.6	1074.3	1078.5	1082.0	1077.8
12.5°	1060.9	1063.0	1067.9	1070.7	1069.3
15°	1045.4	1047.5	1053.9	1060.2	1060.2
17.5°	1027.2	1030.0	1037.7	1046.1	1046.8
20°	1006.8	1008.9	1018.7	1027.2	1027.2
22.5°	983.6	986.4	996.2	1005.4	1006.8
25°	959.0	961.1	972.3	984.3	984.3
27.5°	930.1	934.3	948.4	960.4	963.2
30°	902.0	905.5	921.0	935.8	937.9
32.5°	872.5	876.7	892.9	909.0	912.6
35°	840.8	845.1	862.6	880.2	884.4
37.5°	807.8	812.7	831.0	851.4	855.6
40°	773.4	779.0	798.7	820.5	824.7
42.5°	736.8	744.5	765.6	788.1	794.4
45°	700.2	708.0	729.8	755.1	762.1
47.5°	661.6	670.7	693.2	719.9	727.7
50°	622.9	632.0	655.2	684.1	692.5
52.5°	583.5	592.7	616.6	646.8	655.9
55°	541.3	551.2	576.5	608.8	618.7
57.5°	497.8	510.4	537.1	570.2	580.0
60°	454.2	466.8	497.1	529.4	540.6
62.5°	411.3	423.2	454.2	488.6	500.6
65°	366.3	378.9	412.0	446.4	458.4
67.5°	322.0	334.7	367.7	403.5	416.2
70°	276.3	290.4	324.1	360.0	372.6
72.5°	230.6	245.4	279.8	316.4	328.3
75°	186.3	201.1	235.5	272.8	284.7
77.5°	142.7	158.9	192.6	230.6	241.8
80°	103.3	118.8	150.5	187.7	200.4
82.5°	66.1	79.4	111.1	146.2	155.4
85°	33.7	46.4	68.2	86.5	87.9
87.5°	10.5	14.8	22.5	33.7	34.4
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	15.77	17.43	16.13	17.74	18.06	16.60	18.26	16.96	18.57	18.89
	3H	17.52	19.03	17.90	19.36	19.72	18.71	20.22	19.09	20.55	20.91
	4H	18.14	19.56	18.54	19.91	20.29	19.60	21.02	20.00	21.37	21.75
	6H	18.55	19.87	18.96	20.24	20.63	20.38	21.70	20.79	22.07	22.46
	8H	18.66	19.92	19.08	20.31	20.71	20.70	21.97	21.13	22.35	22.75
	12H	18.71	19.92	19.14	20.30	20.73	20.92	22.13	21.34	22.51	22.94
4H	2H	16.54	17.96	16.94	18.31	18.68	17.19	18.61	17.58	18.95	19.33
	3H	18.52	19.71	18.93	20.11	20.51	19.54	20.74	19.95	21.13	21.53
	4H	19.25	20.34	19.68	20.75	21.19	20.59	21.68	21.02	22.09	22.53
	6H	19.78	20.73	20.23	21.17	21.63	21.54	22.50	22.00	22.94	23.39
	8H	19.93	20.82	20.39	21.26	21.73	21.94	22.83	22.40	23.28	23.74
	12H	20.01	20.82	20.49	21.29	21.76	22.22	23.02	22.70	23.50	23.96
8H	4H	19.71	20.60	20.17	21.05	21.51	20.88	21.77	21.34	22.21	22.68
	6H	20.37	21.12	20.86	21.60	22.08	21.99	22.74	22.48	23.22	23.70
	8H	20.58	21.25	21.09	21.76	22.24	22.50	23.17	23.01	23.68	24.16
	12H	20.72	21.31	21.23	21.80	22.36	22.89	23.48	23.40	23.97	24.53
12H	4H	19.80	20.61	20.28	21.08	21.55	20.91	21.71	21.38	22.18	22.65
	6H	20.50	21.17	21.01	21.68	22.16	22.04	22.71	22.55	23.21	23.70
	8H	20.78	21.37	21.29	21.86	22.42	22.62	23.21	23.12	23.70	24.26