

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: P1586662

Luminaire Tested: 22CZSP-A-43HE-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586662
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-43HE-L930-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

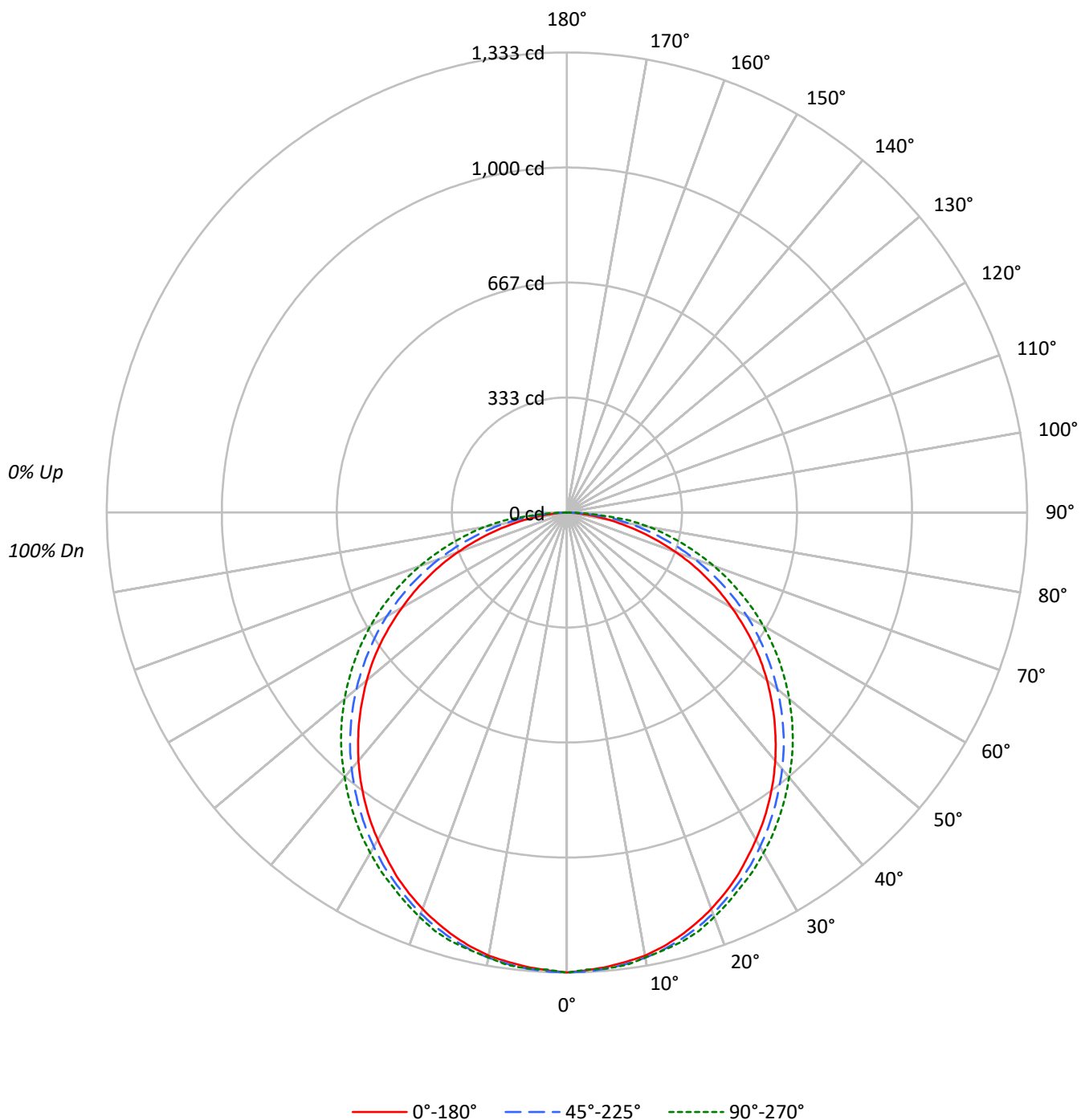
Lumens per Lamp: N/A
Luminaire Lumens: 3891.0 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.2
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

TEST NUMBER: P1586662

CATALOG NUMBER: 22CZSP-A-43HE-L930-S

Luminous Intensity Polar Plot



TEST NUMBER: P1586662

CATALOG NUMBER: 22CZSP-A-43HE-L930-S

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°	4173	4173	4173
5°	4154	4171	4168
10°	4145	4164	4162
15°	4116	4149	4174
20°	4074	4122	4157
25°	4024	4080	4130
30°	3961	4044	4118
35°	3903	4005	4106
40°	3839	3965	4094
45°	3766	3924	4098
50°	3685	3876	4097
55°	3589	3822	4102
60°	3454	3780	4112
65°	3296	3707	4125
70°	3072	3604	4143
75°	2738	3460	4184
80°	2263	3295	4387
85°	1473	2975	3834

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4527 cd/sqm

TEST NUMBER: P1586662

CATALOG NUMBER: 22CZSP-A-43HE-L930-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.0	3.2
10°-20°	360.9	9.3
20°-30°	544.3	14.0
30°-40°	655.6	16.8
40°-50°	684.7	17.6
50°-60°	628.8	16.2
60°-70°	495.3	12.7
70°-80°	303.8	7.8
80°-90°	91.4	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°	1031.3	26.5
0°-40°	1686.9	43.4
0°-60°	3000.4	77.1
0°-90°	3891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3891.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1333	1333	1333	1333	1333	
5°	1322	1323	1327	1331	1326	126
15°	1270	1272	1280	1288	1288	358
25°	1165	1167	1181	1195	1195	536
35°	1021	1026	1048	1069	1074	639
45°	850	860	886	917	926	656
55°	657	669	700	739	751	587
65°	445	460	500	542	557	440
75°	226	244	286	331	346	240
85°	41	56	83	105	107	54
90°	0	0	0	0	0	

TEST NUMBER: P1586662

CATALOG NUMBER: 22CZSP-A-43HE-L930-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1332.8	1332.8	1332.8	1332.8	1332.8
2.5°	1327.6	1330.2	1331.1	1331.9	1325.9
5°	1321.7	1323.4	1326.8	1331.1	1325.9
7.5°	1313.1	1314.8	1319.1	1325.1	1322.5
10°	1303.7	1304.6	1309.7	1314.0	1308.9
12.5°	1288.4	1290.9	1296.9	1300.3	1298.6
15°	1269.6	1272.2	1279.8	1287.5	1287.5
17.5°	1247.4	1250.8	1260.2	1270.4	1271.3
20°	1222.6	1225.2	1237.1	1247.4	1247.4
22.5°	1194.5	1197.9	1209.8	1220.9	1222.6
25°	1164.6	1167.1	1180.8	1195.3	1195.3
27.5°	1129.6	1134.7	1151.8	1166.3	1169.7
30°	1095.4	1099.7	1118.5	1136.4	1139.0
32.5°	1059.6	1064.7	1084.3	1104.0	1108.2
35°	1021.1	1026.3	1047.6	1068.9	1074.1
37.5°	981.0	987.0	1009.2	1033.9	1039.1
40°	939.2	946.0	969.9	996.4	1001.5
42.5°	894.8	904.2	929.8	957.1	964.8
45°	850.4	859.8	886.2	917.0	925.5
47.5°	803.4	814.5	841.8	874.3	883.7
50°	756.5	767.6	795.7	830.7	841.0
52.5°	708.6	719.7	748.8	785.5	796.6
55°	657.4	669.4	700.1	739.4	751.3
57.5°	604.5	619.9	652.3	692.4	704.4
60°	551.6	566.9	603.6	642.9	656.6
62.5°	499.5	514.0	551.6	593.4	607.9
65°	444.8	460.2	500.3	542.2	556.7
67.5°	391.0	406.4	446.5	490.1	505.4
70°	335.5	352.6	393.6	437.1	452.5
72.5°	280.0	298.0	339.8	384.2	398.7
75°	226.3	244.2	286.0	331.3	345.8
77.5°	173.3	193.0	233.9	280.0	293.7
80°	125.5	144.3	182.7	228.0	243.3
82.5°	80.3	96.5	134.9	177.6	188.7
85°	41.0	56.4	82.8	105.0	106.7
87.5°	12.8	17.9	27.3	41.0	41.8
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1586662

CATALOG NUMBER: 22CZSP-A-43HE-L930-S

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	16.44	18.10	16.81	18.42	18.73	17.27	18.93	17.64	19.25	19.56
	3H	18.20	19.70	18.57	20.03	20.39	19.39	20.90	19.76	21.22	21.58
	4H	18.82	20.24	19.21	20.59	20.96	20.28	21.70	20.67	22.05	22.42
	6H	19.23	20.55	19.64	20.91	21.30	21.06	22.38	21.47	22.74	23.13
	8H	19.33	20.60	19.76	20.99	21.38	21.38	22.64	21.80	23.03	23.43
	12H	19.39	20.60	19.82	20.98	21.41	21.59	22.80	22.02	23.18	23.61
4H	2H	17.21	18.64	17.61	18.98	19.36	17.86	19.28	18.26	19.63	20.00
	3H	19.19	20.39	19.60	20.79	21.18	20.21	21.41	20.62	21.81	22.21
	4H	19.93	21.01	20.36	21.43	21.86	21.27	22.35	21.70	22.77	23.20
	6H	20.46	21.41	20.91	21.85	22.30	22.22	23.17	22.67	23.61	24.06
	8H	20.60	21.49	21.06	21.94	22.40	22.62	23.51	23.08	23.95	24.41
	12H	20.69	21.49	21.17	21.96	22.43	22.89	23.70	23.37	24.17	24.64
8H	4H	20.39	21.28	20.85	21.72	22.18	21.56	22.45	22.01	22.89	23.35
	6H	21.05	21.79	21.54	22.28	22.75	22.67	23.41	23.16	23.90	24.37
	8H	21.26	21.93	21.77	22.43	22.92	23.18	23.85	23.69	24.35	24.84
	12H	21.40	21.99	21.90	22.48	23.04	23.57	24.16	24.07	24.65	25.21
12H	4H	20.48	21.28	20.96	21.75	22.22	21.58	22.38	22.06	22.86	23.33
	6H	21.18	21.85	21.69	22.35	22.84	22.71	23.38	23.22	23.89	24.37
	8H	21.46	22.05	21.96	22.54	23.10	23.29	23.89	23.80	24.37	24.93