

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: P1586420

Luminaire Tested: 22CZSP-43HE-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586420
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-43HE-L850-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

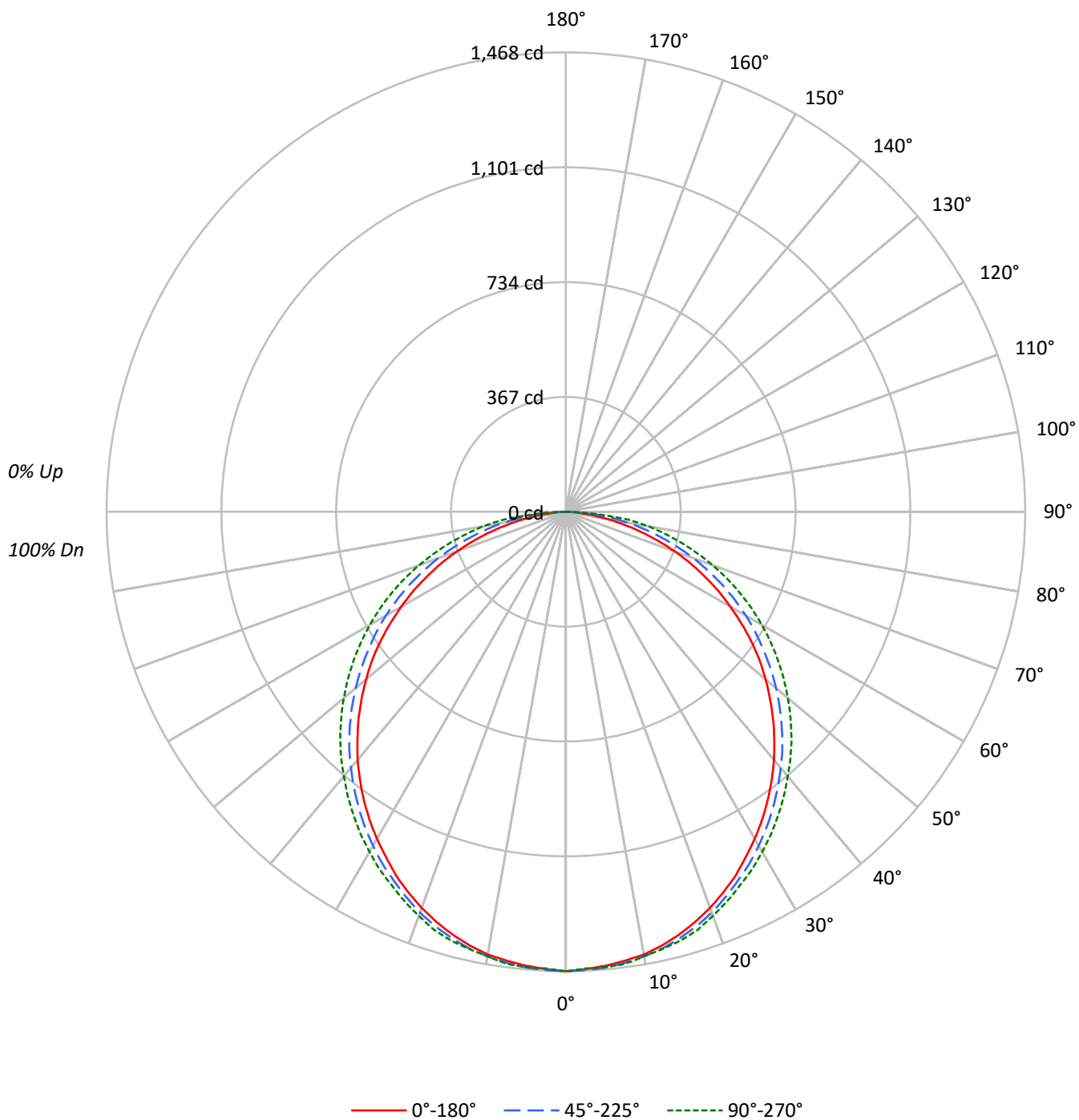
Lumens per Lamp: N/A
Luminaire Lumens: 4287.0 lumens
Efficiency: N/A
Efficacy: 152.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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: P1586420

CATALOG NUMBER: 22CZSP-43HE-L850-S

Luminous Intensity Polar Plot



TEST NUMBER: P1586420

CATALOG NUMBER: 22CZSP-43HE-L850-S

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	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4598	4598	4598
5°	4577	4595	4592
10°	4567	4588	4585
15°	4535	4571	4599
20°	4489	4542	4580
25°	4433	4495	4550
30°	4364	4456	4537
35°	4301	4412	4524
40°	4230	4368	4510
45°	4149	4324	4516
50°	4060	4271	4514
55°	3954	4211	4519
60°	3806	4165	4530
65°	3631	4084	4544
70°	3385	3971	4565
75°	3016	3812	4610
80°	2494	3630	4835
85°	1624	3277	4225

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4988 cd/sqm

TEST NUMBER: P1586420

CATALOG NUMBER: 22CZSP-43HE-L850-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.9	3.2
10°-20°	397.7	9.3
20°-30°	599.7	14.0
30°-40°	722.3	16.8
40°-50°	754.4	17.6
50°-60°	692.8	16.2
60°-70°	545.7	12.7
70°-80°	334.8	7.8
80°-90°	100.8	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°	1136.3	26.5
0°-40°	1858.6	43.4
0°-60°	3305.8	77.1
0°-90°	4287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4287.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1468	1468	1468	1468	1468	
5°	1456	1458	1462	1466	1461	138
15°	1399	1402	1410	1419	1419	394
25°	1283	1286	1301	1317	1317	591
35°	1125	1131	1154	1178	1183	704
45°	937	947	976	1010	1020	722
55°	724	738	771	815	828	647
65°	490	507	551	597	613	485
75°	249	269	315	365	381	264
85°	45	62	91	116	118	59
90°	0	0	0	0	0	

TEST NUMBER: P1586420

CATALOG NUMBER: 22CZSP-43HE-L850-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1468.4	1468.4	1468.4	1468.4	1468.4
2.5°	1462.8	1465.6	1466.5	1467.5	1460.9
5°	1456.2	1458.1	1461.8	1466.5	1460.9
7.5°	1446.8	1448.7	1453.4	1459.9	1457.1
10°	1436.4	1437.4	1443.0	1447.7	1442.1
12.5°	1419.5	1422.3	1428.9	1432.7	1430.8
15°	1398.8	1401.6	1410.1	1418.6	1418.6
17.5°	1374.3	1378.1	1388.5	1399.7	1400.7
20°	1347.1	1349.9	1363.1	1374.3	1374.3
22.5°	1316.0	1319.8	1333.0	1345.2	1347.1
25°	1283.1	1285.9	1301.0	1317.0	1317.0
27.5°	1244.5	1250.2	1269.0	1285.0	1288.7
30°	1206.9	1211.6	1232.3	1252.1	1254.9
32.5°	1167.4	1173.0	1194.7	1216.3	1221.0
35°	1125.1	1130.7	1154.2	1177.7	1183.4
37.5°	1080.8	1087.4	1111.9	1139.2	1144.8
40°	1034.8	1042.3	1068.6	1097.8	1103.4
42.5°	985.8	996.2	1024.4	1054.5	1063.0
45°	936.9	947.3	976.4	1010.3	1019.7
47.5°	885.2	897.4	927.5	963.3	973.6
50°	833.4	845.7	876.7	915.3	926.6
52.5°	780.8	793.0	825.0	865.4	877.7
55°	724.3	737.5	771.4	814.6	827.8
57.5°	666.0	682.9	718.7	762.9	776.1
60°	607.7	624.6	665.1	708.3	723.4
62.5°	550.3	566.3	607.7	653.8	669.8
65°	490.1	507.0	551.2	597.3	613.3
67.5°	430.8	447.8	492.0	540.0	556.9
70°	369.7	388.5	433.7	481.6	498.6
72.5°	308.5	328.3	374.4	423.3	439.3
75°	249.3	269.0	315.1	365.0	381.0
77.5°	191.0	212.6	257.7	308.5	323.6
80°	138.3	159.0	201.3	251.2	268.1
82.5°	88.4	106.3	148.6	195.7	207.9
85°	45.2	62.1	91.2	115.7	117.6
87.5°	14.1	19.8	30.1	45.2	46.1
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1586420

CATALOG NUMBER: 22CZSP-43HE-L850-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	16.78	18.44	17.14	18.75	19.07	17.61	19.27	17.97	19.59	19.90
	3H	18.53	20.04	18.91	20.37	20.73	19.73	21.23	20.10	21.56	21.92
	4H	19.15	20.58	19.55	20.92	21.30	20.61	22.04	21.01	22.38	22.76
	6H	19.56	20.88	19.97	21.25	21.64	21.40	22.72	21.81	23.08	23.47
	8H	19.67	20.93	20.10	21.32	21.72	21.72	22.98	22.14	23.37	23.76
	12H	19.72	20.93	20.15	21.32	21.74	21.93	23.14	22.36	23.52	23.95
4H	2H	17.55	18.97	17.95	19.32	19.69	18.20	19.62	18.59	19.97	20.34
	3H	19.53	20.73	19.94	21.12	21.52	20.55	21.75	20.96	22.15	22.55
	4H	20.26	21.35	20.69	21.76	22.20	21.60	22.69	22.03	23.10	23.54
	6H	20.79	21.75	21.25	22.18	22.64	22.56	23.51	23.01	23.95	24.40
	8H	20.94	21.83	21.40	22.27	22.74	22.95	23.85	23.41	24.29	24.75
	12H	21.02	21.83	21.50	22.30	22.77	23.23	24.03	23.71	24.51	24.98
8H	4H	20.72	21.62	21.18	22.06	22.52	21.89	22.79	22.35	23.23	23.69
	6H	21.38	22.13	21.88	22.62	23.09	23.00	23.75	23.50	24.24	24.71
	8H	21.60	22.26	22.10	22.77	23.25	23.52	24.19	24.02	24.69	25.17
	12H	21.73	22.33	22.24	22.82	23.37	23.90	24.49	24.41	24.98	25.54
12H	4H	20.81	21.62	21.29	22.09	22.56	21.92	22.72	22.40	23.20	23.66
	6H	21.52	22.19	22.02	22.69	23.18	23.05	23.72	23.56	24.23	24.71
	8H	21.79	22.39	22.30	22.88	23.43	23.63	24.22	24.14	24.71	25.27