

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: P1586661

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586661
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-A-43HE-L850
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

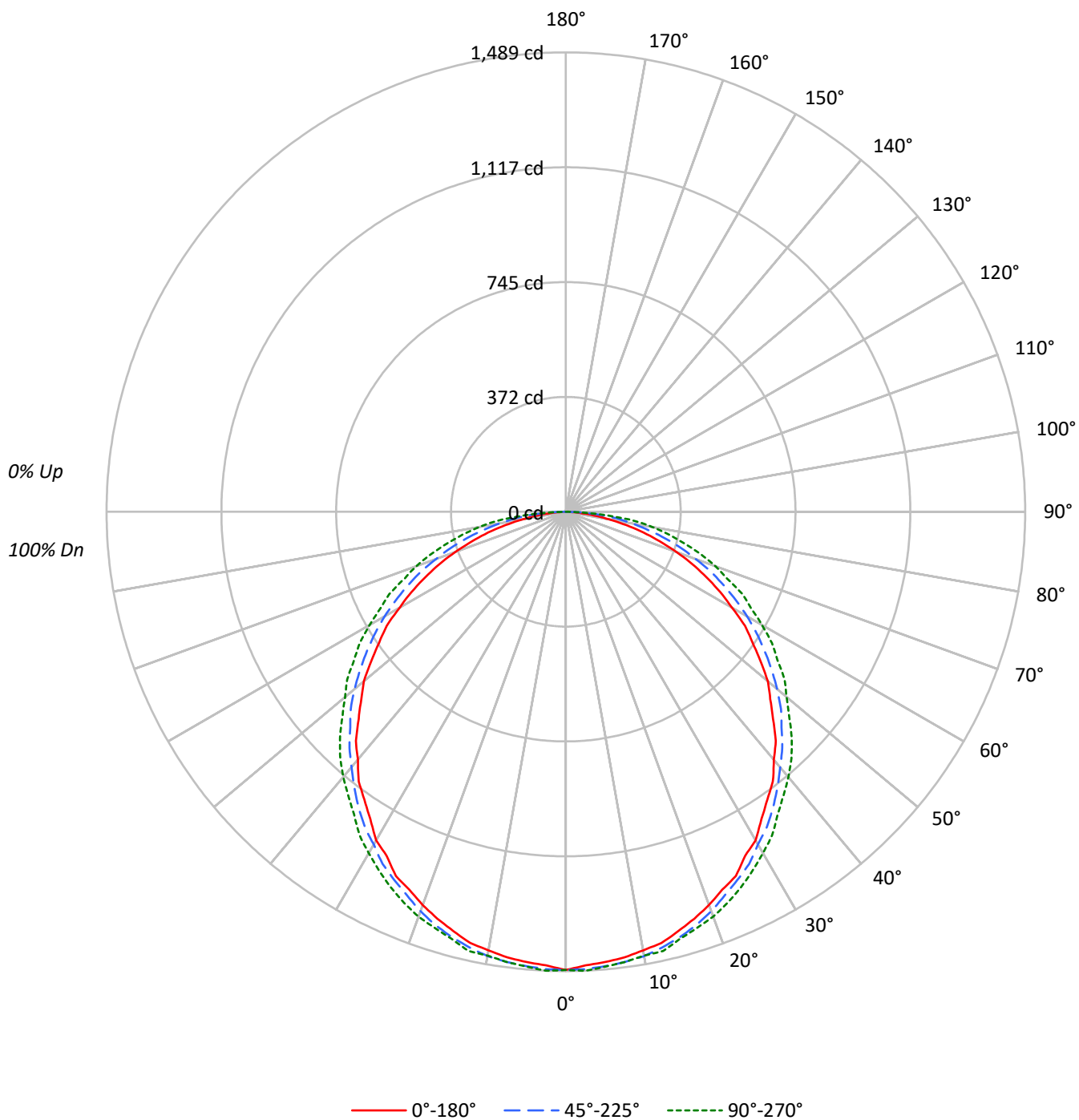
Lumens per Lamp: N/A
Luminaire Lumens: 4374.0 lumens
Efficiency: N/A
Efficacy: 155.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1586661

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

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	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	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°	4650	4650	4650
5°	4605	4647	4651
10°	4590	4650	4645
15°	4562	4628	4645
20°	4521	4592	4654
25°	4502	4548	4641
30°	4446	4503	4619
35°	4352	4475	4577
40°	4288	4419	4588
45°	4207	4378	4586
50°	4165	4354	4549
55°	4032	4295	4572
60°	3896	4248	4600
65°	3727	4183	4679
70°	3503	4103	4728
75°	3157	4030	4824
80°	2580	3956	5139
85°	1681	3941	4807

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5393 cd/sqm

TEST NUMBER: P1586661

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.4	3.2
10°-20°	402.0	9.2
20°-30°	607.5	13.9
30°-40°	732.7	16.8
40°-50°	765.9	17.5
50°-60°	706.3	16.1
60°-70°	559.7	12.8
70°-80°	349.9	8.0
80°-90°	109.8	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°	1149.8	26.3
0°-40°	1882.4	43.0
0°-60°	3354.7	76.7
0°-90°	4374.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4374.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1485	1485	1485	1485	1485	
5°	1465	1472	1478	1484	1480	139
15°	1407	1414	1428	1437	1433	397
25°	1303	1299	1316	1335	1343	598
35°	1138	1152	1171	1191	1197	714
45°	950	963	989	1014	1036	735
55°	738	756	787	830	838	662
65°	503	524	565	609	632	498
75°	261	282	333	380	399	275
85°	47	67	110	128	134	61
90°	0	0	0	0	0	

TEST NUMBER: P1586661

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1485.0	1485.0	1485.0	1485.0	1485.0
2.5°	1471.6	1478.3	1483.7	1482.3	1489.0
5°	1464.9	1471.6	1478.3	1483.7	1479.7
7.5°	1456.9	1463.6	1471.6	1479.7	1471.6
10°	1443.5	1447.6	1462.3	1463.6	1460.9
12.5°	1431.5	1435.5	1446.2	1455.6	1458.3
15°	1407.4	1414.1	1427.5	1436.9	1432.8
17.5°	1383.3	1392.7	1404.7	1414.1	1414.1
20°	1356.6	1363.3	1378.0	1384.7	1396.7
22.5°	1325.8	1333.8	1345.9	1364.6	1371.3
25°	1303.1	1299.1	1316.4	1335.2	1343.2
27.5°	1257.6	1262.9	1287.0	1304.4	1311.1
30°	1229.5	1232.2	1245.5	1269.6	1277.6
32.5°	1180.0	1188.0	1212.1	1229.5	1244.2
35°	1138.5	1151.9	1170.6	1190.7	1197.4
37.5°	1102.4	1105.1	1126.5	1153.2	1158.6
40°	1048.9	1064.9	1081.0	1114.4	1122.5
42.5°	1007.4	1015.4	1038.2	1070.3	1082.3
45°	949.9	963.3	988.7	1014.1	1035.5
47.5°	899.0	912.4	945.9	978.0	982.0
50°	854.9	860.2	893.7	929.8	933.8
52.5°	794.7	808.1	840.2	880.3	893.7
55°	738.5	755.9	786.7	829.5	837.5
57.5°	689.0	697.0	733.1	776.0	792.0
60°	622.1	644.8	678.3	719.8	734.5
62.5°	564.6	586.0	622.1	660.9	677.0
65°	503.0	524.4	564.6	608.7	631.5
67.5°	444.2	461.6	509.7	555.2	565.9
70°	382.6	402.7	448.2	495.0	516.4
72.5°	318.4	341.2	392.0	436.1	458.9
75°	260.9	282.3	333.1	379.9	398.7
77.5°	200.7	224.8	274.3	321.1	342.5
80°	143.1	167.2	219.4	266.2	285.0
82.5°	92.3	117.7	167.2	208.7	224.8
85°	46.8	66.9	109.7	128.4	133.8
87.5°	14.7	24.1	37.5	42.8	42.8
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1586661

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

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	16.86	18.53	17.23	18.85	19.16	17.65	19.32	18.02	19.64	19.95
	3H	18.65	20.16	19.02	20.48	20.84	19.80	21.31	20.17	21.64	22.00
	4H	19.28	20.71	19.68	21.06	21.43	20.72	22.15	21.12	22.50	22.87
	6H	19.71	21.04	20.12	21.40	21.79	21.55	22.87	21.96	23.24	23.63
	8H	19.82	21.09	20.25	21.48	21.88	21.89	23.16	22.32	23.55	23.95
	12H	19.88	21.09	20.31	21.47	21.90	22.14	23.35	22.56	23.73	24.16
4H	2H	17.64	19.06	18.03	19.41	19.79	18.25	19.68	18.65	20.03	20.40
	3H	19.65	20.85	20.06	21.25	21.65	20.64	21.84	21.05	22.24	22.64
	4H	20.41	21.50	20.84	21.91	22.35	21.72	22.82	22.15	23.23	23.66
	6H	20.96	21.91	21.41	22.35	22.81	22.72	23.68	23.17	24.12	24.57
	8H	21.11	22.01	21.57	22.45	22.91	23.15	24.05	23.61	24.49	24.95
	12H	21.20	22.01	21.68	22.48	22.95	23.46	24.27	23.94	24.75	25.21
8H	4H	20.89	21.79	21.35	22.23	22.69	22.03	22.93	22.49	23.37	23.83
	6H	21.58	22.33	22.07	22.81	23.29	23.20	23.95	23.69	24.43	24.91
	8H	21.81	22.48	22.31	22.98	23.47	23.74	24.41	24.25	24.92	25.40
	12H	21.95	22.55	22.46	23.04	23.60	24.17	24.77	24.67	25.26	25.81
12H	4H	20.98	21.79	21.46	22.27	22.74	22.06	22.87	22.54	23.34	23.81
	6H	21.73	22.40	22.23	22.91	23.39	23.25	23.93	23.76	24.43	24.92
	8H	22.03	22.63	22.53	23.12	23.67	23.87	24.47	24.37	24.95	25.51