

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: P1586424

Luminaire Tested: 22CZSP-43HE-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586424
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-L935-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

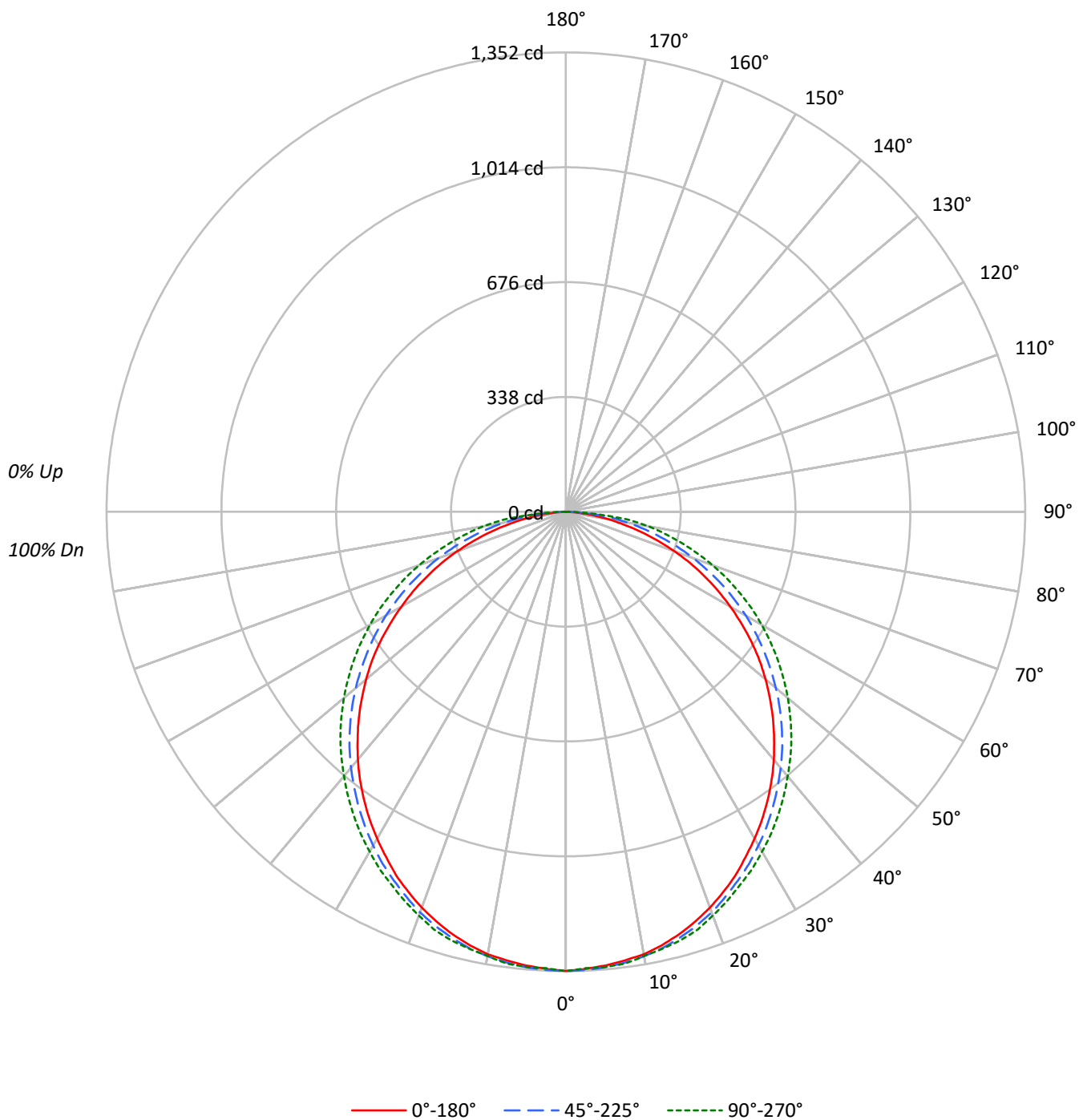
Lumens per Lamp: N/A
Luminaire Lumens: 3946.0 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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: P1586424

CATALOG NUMBER: 22CZSP-43HE-L935-S

Luminous Intensity Polar Plot



TEST NUMBER: P1586424

CATALOG NUMBER: 22CZSP-43HE-L935-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°	4232	4232	4232
5°	4213	4229	4227
10°	4204	4223	4221
15°	4174	4208	4233
20°	4132	4181	4215
25°	4080	4137	4188
30°	4017	4101	4177
35°	3959	4061	4164
40°	3893	4021	4152
45°	3819	3980	4156
50°	3737	3931	4155
55°	3640	3876	4160
60°	3503	3834	4170
65°	3342	3760	4183
70°	3116	3655	4201
75°	2777	3510	4243
80°	2296	3341	4450
85°	1495	3018	3887

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4592 cd/sqm

TEST NUMBER: P1586424

CATALOG NUMBER: 22CZSP-43HE-L935-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	3.2
10°-20°	366.0	9.3
20°-30°	552.0	14.0
30°-40°	664.9	16.8
40°-50°	694.4	17.6
50°-60°	637.7	16.2
60°-70°	502.3	12.7
70°-80°	308.1	7.8
80°-90°	92.7	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°	1045.9	26.5
0°-40°	1710.8	43.4
0°-60°	3042.8	77.1
0°-90°	3946.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3946.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1352	1352	1352	1352	1352	
5°	1340	1342	1346	1350	1345	127
15°	1288	1290	1298	1306	1306	363
25°	1181	1184	1198	1212	1212	544
35°	1036	1041	1062	1084	1089	648
45°	862	872	899	930	939	665
55°	667	679	710	750	762	595
65°	451	467	507	550	564	446
75°	230	248	290	336	351	243
85°	42	57	84	106	108	54
90°	0	0	0	0	0	

TEST NUMBER: P1586424

CATALOG NUMBER: 22CZSP-43HE-L935-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1351.6	1351.6	1351.6	1351.6	1351.6
2.5°	1346.4	1349.0	1349.9	1350.7	1344.7
5°	1340.4	1342.1	1345.5	1349.9	1344.7
7.5°	1331.7	1333.4	1337.8	1343.8	1341.2
10°	1322.2	1323.0	1328.2	1332.6	1327.4
12.5°	1306.6	1309.2	1315.2	1318.7	1317.0
15°	1287.5	1290.1	1297.9	1305.7	1305.7
17.5°	1265.0	1268.5	1278.0	1288.4	1289.3
20°	1239.9	1242.5	1254.6	1265.0	1265.0
22.5°	1211.3	1214.8	1226.9	1238.2	1239.9
25°	1181.0	1183.6	1197.5	1212.2	1212.2
27.5°	1145.5	1150.7	1168.0	1182.8	1186.2
30°	1110.9	1115.2	1134.3	1152.5	1155.1
32.5°	1074.5	1079.7	1099.6	1119.6	1123.9
35°	1035.6	1040.8	1062.4	1084.1	1089.3
37.5°	994.9	1000.9	1023.4	1048.6	1053.8
40°	952.4	959.4	983.6	1010.5	1015.7
42.5°	907.4	916.9	942.9	970.6	978.4
45°	862.4	871.9	898.8	929.9	938.6
47.5°	814.8	826.0	853.7	886.6	896.2
50°	767.2	778.4	807.0	842.5	852.9
52.5°	718.7	729.9	759.4	796.6	807.8
55°	666.7	678.8	710.0	749.8	762.0
57.5°	613.0	628.6	661.5	702.2	714.3
60°	559.3	574.9	612.2	652.0	665.8
62.5°	506.5	521.2	559.3	601.8	616.5
65°	451.1	466.7	507.4	549.8	564.5
67.5°	396.6	412.2	452.8	497.0	512.6
70°	340.3	357.6	399.2	443.3	458.9
72.5°	284.0	302.2	344.6	389.6	404.4
75°	229.5	247.6	290.1	336.0	350.7
77.5°	175.8	195.7	237.2	284.0	297.9
80°	127.3	146.3	185.3	231.2	246.8
82.5°	81.4	97.8	136.8	180.1	191.4
85°	41.6	57.1	84.0	106.5	108.2
87.5°	13.0	18.2	27.7	41.6	42.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1586424

CATALOG NUMBER: 22CZSP-43HE-L935-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	16.49	18.15	16.86	18.47	18.78	17.32	18.98	17.69	19.30	19.61
	3H	18.25	19.75	18.62	20.08	20.44	19.44	20.94	19.81	21.27	21.63
	4H	18.87	20.29	19.26	20.63	21.01	20.33	21.75	20.72	22.10	22.47
	6H	19.28	20.60	19.69	20.96	21.35	21.11	22.43	21.52	22.79	23.18
	8H	19.38	20.65	19.81	21.03	21.43	21.43	22.69	21.85	23.08	23.48
	12H	19.44	20.65	19.86	21.03	21.46	21.64	22.85	22.07	23.23	23.66
4H	2H	17.26	18.68	17.66	19.03	19.41	17.91	19.33	18.31	19.68	20.05
	3H	19.24	20.44	19.65	20.83	21.23	20.26	21.46	20.67	21.86	22.26
	4H	19.98	21.06	20.41	21.48	21.91	21.32	22.40	21.75	22.81	23.25
	6H	20.51	21.46	20.96	21.90	22.35	22.27	23.22	22.72	23.66	24.11
	8H	20.65	21.54	21.11	21.98	22.45	22.67	23.56	23.12	24.00	24.46
	12H	20.74	21.54	21.21	22.01	22.48	22.94	23.75	23.42	24.22	24.69
8H	4H	20.44	21.33	20.89	21.77	22.23	21.61	22.50	22.06	22.94	23.40
	6H	21.10	21.84	21.59	22.33	22.80	22.72	23.46	23.21	23.95	24.42
	8H	21.31	21.98	21.81	22.48	22.97	23.23	23.90	23.74	24.40	24.89
	12H	21.45	22.04	21.95	22.53	23.09	23.61	24.21	24.12	24.70	25.25
12H	4H	20.53	21.33	21.00	21.80	22.27	21.63	22.43	22.11	22.91	23.38
	6H	21.23	21.90	21.74	22.40	22.89	22.76	23.43	23.27	23.94	24.42
	8H	21.51	22.10	22.01	22.59	23.15	23.34	23.93	23.85	24.42	24.98