

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: P1586423

Luminaire Tested: 22CZSP-43HE-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586423
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-43HE-L930
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

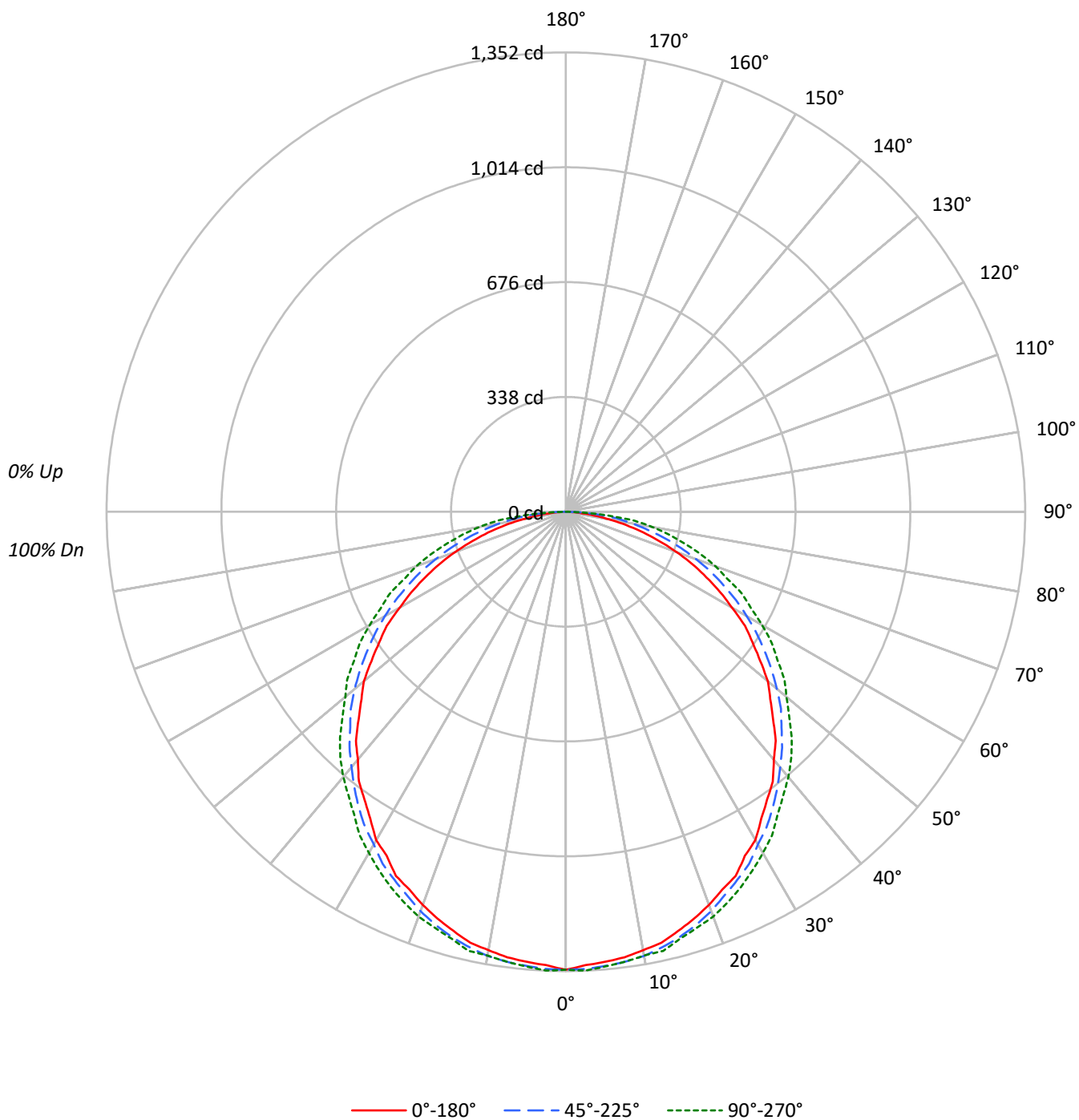
Lumens per Lamp: N/A
Luminaire Lumens: 3970.0 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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

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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			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°	4221	4221	4221
5°	4179	4218	4221
10°	4166	4220	4216
15°	4141	4200	4216
20°	4103	4168	4224
25°	4086	4128	4212
30°	4035	4088	4193
35°	3950	4062	4154
40°	3891	4010	4165
45°	3818	3974	4162
50°	3780	3951	4129
55°	3659	3898	4150
60°	3536	3855	4175
65°	3383	3797	4246
70°	3180	3724	4291
75°	2865	3659	4378
80°	2342	3590	4663
85°	1527	3578	4362

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4894 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	3.2
10°-20°	364.8	9.2
20°-30°	551.4	13.9
30°-40°	665.0	16.8
40°-50°	695.2	17.5
50°-60°	641.1	16.1
60°-70°	508.0	12.8
70°-80°	317.6	8.0
80°-90°	99.6	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°	1043.6	26.3
0°-40°	1708.6	43.0
0°-60°	3044.8	76.7
0°-90°	3970.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3970.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1348	1348	1348	1348	1348	
5°	1330	1336	1342	1347	1343	126
15°	1277	1284	1296	1304	1300	360
25°	1183	1179	1195	1212	1219	542
35°	1033	1046	1062	1081	1087	648
45°	862	874	897	920	940	667
55°	670	686	714	753	760	601
65°	457	476	512	552	573	452
75°	237	256	302	345	362	249
85°	42	61	100	117	121	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1347.9	1347.9	1347.9	1347.9	1347.9
2.5°	1335.7	1341.8	1346.6	1345.4	1351.5
5°	1329.6	1335.7	1341.8	1346.6	1343.0
7.5°	1322.4	1328.4	1335.7	1343.0	1335.7
10°	1310.2	1313.9	1327.2	1328.4	1326.0
12.5°	1299.3	1302.9	1312.6	1321.1	1323.6
15°	1277.4	1283.5	1295.6	1304.1	1300.5
17.5°	1255.6	1264.1	1275.0	1283.5	1283.5
20°	1231.3	1237.4	1250.7	1256.8	1267.7
22.5°	1203.4	1210.6	1221.6	1238.6	1244.6
25°	1182.7	1179.1	1194.9	1211.9	1219.1
27.5°	1141.4	1146.3	1168.1	1183.9	1190.0
30°	1115.9	1118.4	1130.5	1152.4	1159.6
32.5°	1071.0	1078.3	1100.1	1115.9	1129.3
35°	1033.4	1045.5	1062.5	1080.7	1086.8
37.5°	1000.6	1003.0	1022.4	1046.7	1051.6
40°	952.0	966.6	981.1	1011.5	1018.8
42.5°	914.4	921.6	942.3	971.4	982.4
45°	862.1	874.3	897.4	920.4	939.9
47.5°	816.0	828.1	858.5	887.6	891.3
50°	775.9	780.8	811.1	843.9	847.6
52.5°	721.3	733.4	762.6	799.0	811.1
55°	670.3	686.1	714.0	752.9	760.1
57.5°	625.4	632.6	665.4	704.3	718.9
60°	564.6	585.3	615.6	653.3	666.6
62.5°	512.4	531.9	564.6	599.9	614.4
65°	456.6	476.0	512.4	552.5	573.1
67.5°	403.1	418.9	462.6	503.9	513.6
70°	347.3	365.5	406.8	449.3	468.7
72.5°	289.0	309.6	355.8	395.9	416.5
75°	236.8	256.2	302.4	344.9	361.9
77.5°	182.1	204.0	248.9	291.4	310.9
80°	129.9	151.8	199.1	241.6	258.6
82.5°	83.8	106.9	151.8	189.4	204.0
85°	42.5	60.7	99.6	116.6	121.4
87.5°	13.4	21.9	34.0	38.9	38.9
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	16.53	18.19	16.89	18.51	18.82	17.32	18.98	17.68	19.30	19.61
	3H	18.31	19.82	18.69	20.15	20.51	19.46	20.97	19.84	21.30	21.66
	4H	18.95	20.37	19.34	20.72	21.10	20.38	21.81	20.78	22.16	22.53
	6H	19.37	20.70	19.78	21.06	21.45	21.21	22.54	21.62	22.90	23.29
	8H	19.49	20.75	19.91	21.14	21.54	21.56	22.82	21.98	23.21	23.61
	12H	19.54	20.76	19.97	21.14	21.57	21.80	23.02	22.23	23.40	23.82
4H	2H	17.30	18.73	17.70	19.08	19.45	17.91	19.34	18.31	19.69	20.06
	3H	19.31	20.51	19.72	20.91	21.31	20.30	21.50	20.71	21.90	22.30
	4H	20.07	21.16	20.50	21.58	22.01	21.39	22.48	21.82	22.89	23.33
	6H	20.62	21.58	21.07	22.02	22.47	22.39	23.34	22.84	23.78	24.24
	8H	20.77	21.67	21.23	22.11	22.58	22.81	23.71	23.27	24.15	24.61
	12H	20.86	21.67	21.34	22.15	22.61	23.13	23.93	23.60	24.41	24.88
8H	4H	20.55	21.45	21.01	21.89	22.35	21.69	22.59	22.15	23.03	23.50
	6H	21.24	21.99	21.73	22.48	22.95	22.86	23.61	23.35	24.09	24.57
	8H	21.47	22.14	21.98	22.65	23.13	23.40	24.08	23.91	24.58	25.07
	12H	21.62	22.21	22.12	22.70	23.26	23.83	24.43	24.34	24.92	25.48
12H	4H	20.65	21.46	21.13	21.93	22.40	21.72	22.53	22.20	23.01	23.47
	6H	21.39	22.06	21.90	22.57	23.05	22.92	23.59	23.42	24.10	24.58
	8H	21.69	22.29	22.20	22.78	23.34	23.53	24.13	24.04	24.62	25.18