

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: P1586427

Luminaire Tested: 22CZSP-43HE-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586427
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-L940
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

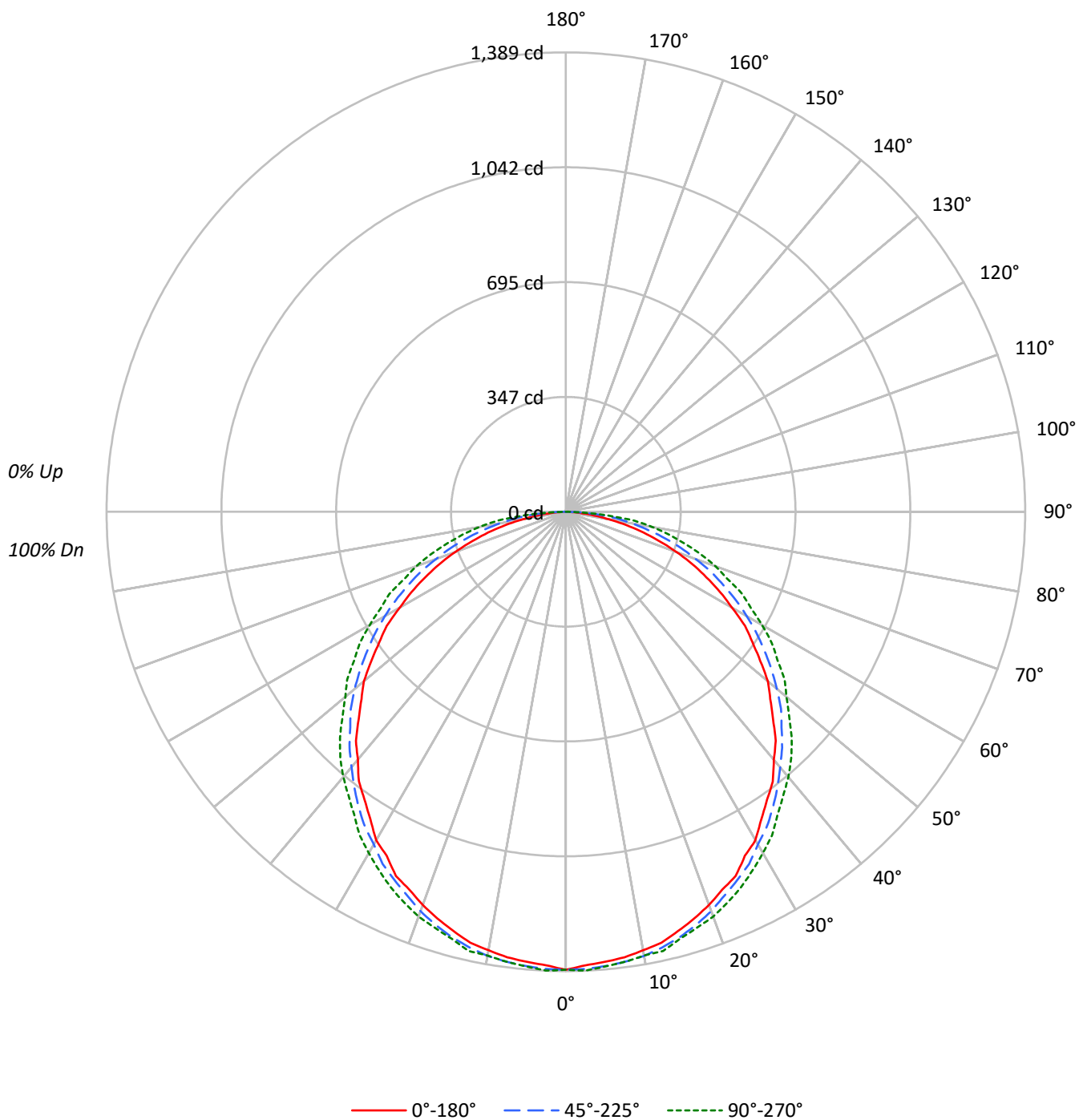
Lumens per Lamp: N/A
Luminaire Lumens: 4079.0 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	4337	4337	4337
5°	4294	4333	4337
10°	4280	4336	4332
15°	4255	4315	4332
20°	4216	4282	4340
25°	4199	4242	4328
30°	4146	4200	4308
35°	4059	4173	4268
40°	3998	4121	4279
45°	3923	4083	4276
50°	3884	4060	4242
55°	3760	4005	4264
60°	3633	3961	4289
65°	3476	3901	4363
70°	3267	3827	4409
75°	2944	3759	4498
80°	2407	3689	4791
85°	1570	3675	4484

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5028 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.9	3.2
10°-20°	374.8	9.2
20°-30°	566.5	13.9
30°-40°	683.2	16.8
40°-50°	714.3	17.5
50°-60°	658.7	16.1
60°-70°	521.9	12.8
70°-80°	326.3	8.0
80°-90°	102.4	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°	1072.2	26.3
0°-40°	1755.5	43.0
0°-60°	3128.4	76.7
0°-90°	4079.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4079.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1385	1385	1385	1385	1385	
5°	1366	1372	1379	1384	1380	130
15°	1312	1319	1331	1340	1336	370
25°	1215	1211	1228	1245	1253	557
35°	1062	1074	1092	1110	1117	666
45°	886	898	922	946	966	686
55°	689	705	734	774	781	617
65°	469	489	526	568	589	465
75°	243	263	311	354	372	256
85°	44	62	102	120	125	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1384.9	1384.9	1384.9	1384.9	1384.9
2.5°	1372.4	1378.6	1383.6	1382.4	1388.6
5°	1366.1	1372.4	1378.6	1383.6	1379.9
7.5°	1358.7	1364.9	1372.4	1379.9	1372.4
10°	1346.2	1349.9	1363.6	1364.9	1362.4
12.5°	1335.0	1338.7	1348.7	1357.4	1359.9
15°	1312.5	1318.7	1331.2	1339.9	1336.2
17.5°	1290.0	1298.8	1310.0	1318.7	1318.7
20°	1265.1	1271.3	1285.0	1291.3	1302.5
22.5°	1236.4	1243.9	1255.1	1272.6	1278.8
25°	1215.2	1211.4	1227.7	1245.1	1252.6
27.5°	1172.8	1177.8	1200.2	1216.4	1222.7
30°	1146.6	1149.1	1161.5	1184.0	1191.5
32.5°	1100.4	1107.9	1130.3	1146.6	1160.3
35°	1061.7	1074.2	1091.7	1110.4	1116.6
37.5°	1028.0	1030.5	1050.5	1075.4	1080.4
40°	978.1	993.1	1008.1	1039.3	1046.8
42.5°	939.5	946.9	968.2	998.1	1009.3
45°	885.8	898.3	922.0	945.7	965.7
47.5°	838.4	850.9	882.1	912.0	915.8
50°	797.2	802.2	833.4	867.1	870.8
52.5°	741.1	753.6	783.5	820.9	833.4
55°	688.7	704.9	733.6	773.5	781.0
57.5°	642.5	650.0	683.7	723.6	738.6
60°	580.1	601.4	632.5	671.2	684.9
62.5°	526.5	546.5	580.1	616.3	631.3
65°	469.1	489.1	526.5	567.7	588.9
67.5°	414.2	430.4	475.3	517.8	527.7
70°	356.8	375.5	418.0	461.6	481.6
72.5°	296.9	318.1	365.6	406.7	427.9
75°	243.3	263.2	310.7	354.3	371.8
77.5°	187.1	209.6	255.8	299.4	319.4
80°	133.5	156.0	204.6	248.3	265.7
82.5°	86.1	109.8	156.0	194.6	209.6
85°	43.7	62.4	102.3	119.8	124.8
87.5°	13.7	22.5	34.9	39.9	39.9
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	16.62	18.29	16.99	18.60	18.92	17.41	19.08	17.78	19.39	19.71
	3H	18.40	19.92	18.78	20.24	20.60	19.56	21.07	19.93	21.39	21.75
	4H	19.04	20.47	19.44	20.82	21.19	20.48	21.91	20.88	22.25	22.63
	6H	19.47	20.79	19.88	21.16	21.55	21.30	22.63	21.71	22.99	23.38
	8H	19.58	20.85	20.00	21.24	21.63	21.65	22.92	22.07	23.31	23.70
	12H	19.63	20.85	20.06	21.23	21.66	21.89	23.11	22.32	23.49	23.92
4H	2H	17.39	18.82	17.79	19.17	19.54	18.01	19.44	18.41	19.78	20.16
	3H	19.40	20.61	19.81	21.00	21.40	20.39	21.60	20.80	21.99	22.39
	4H	20.17	21.26	20.60	21.67	22.10	21.48	22.57	21.91	22.99	23.42
	6H	20.71	21.67	21.17	22.11	22.56	22.48	23.44	22.93	23.88	24.33
	8H	20.87	21.77	21.33	22.21	22.67	22.91	23.80	23.36	24.24	24.71
	12H	20.96	21.77	21.44	22.24	22.71	23.22	24.03	23.70	24.50	24.97
8H	4H	20.65	21.54	21.10	21.98	22.45	21.79	22.69	22.25	23.13	23.59
	6H	21.34	22.09	21.83	22.57	23.05	22.95	23.70	23.44	24.19	24.66
	8H	21.56	22.24	22.07	22.74	23.23	23.50	24.17	24.00	24.68	25.16
	12H	21.71	22.31	22.22	22.80	23.36	23.93	24.52	24.43	25.01	25.57
12H	4H	20.74	21.55	21.22	22.03	22.49	21.82	22.63	22.30	23.10	23.57
	6H	21.48	22.16	21.99	22.66	23.15	23.01	23.68	23.52	24.19	24.67
	8H	21.79	22.38	22.29	22.87	23.43	23.63	24.22	24.13	24.71	25.27