

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: P1586383

Luminaire Tested: 22CZSP-37HE-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586383
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-37HE-L930
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 3500 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

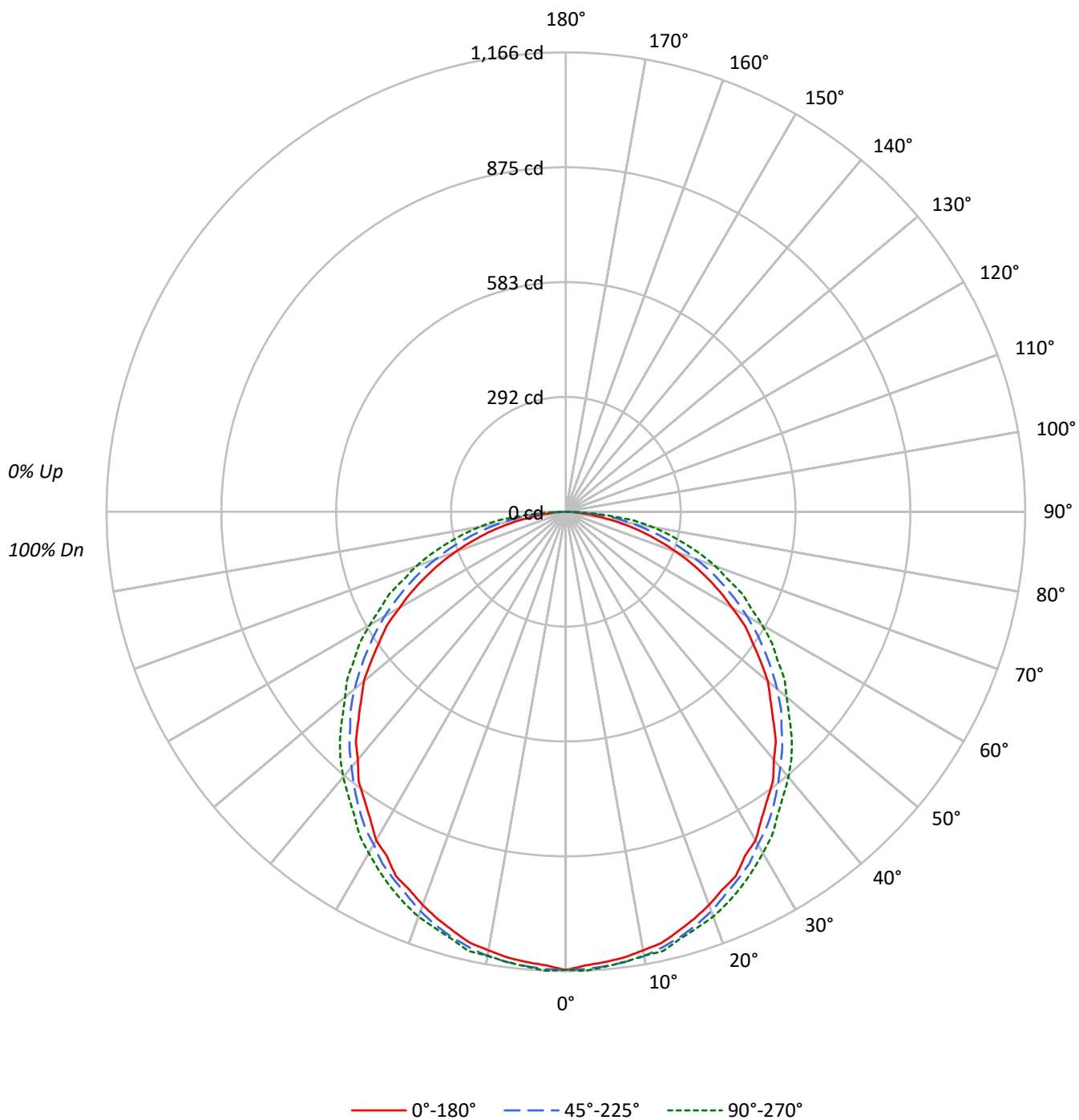
Lumens per Lamp: N/A
Luminaire Lumens: 3425.0 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.1
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°	3641	3641	3641
5°	3606	3639	3642
10°	3594	3641	3637
15°	3573	3624	3637
20°	3540	3596	3645
25°	3525	3561	3634
30°	3481	3526	3617
35°	3408	3504	3584
40°	3357	3460	3593
45°	3294	3428	3591
50°	3261	3409	3562
55°	3157	3363	3580
60°	3051	3326	3602
65°	2919	3276	3664
70°	2743	3213	3702
75°	2472	3155	3777
80°	2021	3098	4023
85°	1319	3086	3765

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4222 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	3.2
10°-20°	314.7	9.2
20°-30°	475.7	13.9
30°-40°	573.7	16.8
40°-50°	599.8	17.5
50°-60°	553.1	16.1
60°-70°	438.2	12.8
70°-80°	274.0	8.0
80°-90°	85.9	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°	900.3	26.3
0°-40°	1474.0	43.0
0°-60°	2626.8	76.7
0°-90°	3425.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3425.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1163	1163	1163	1163	1163	
5°	1147	1152	1158	1162	1159	109
15°	1102	1107	1118	1125	1122	311
25°	1020	1017	1031	1046	1052	468
35°	892	902	917	932	938	559
45°	744	754	774	794	811	576
55°	578	592	616	650	656	518
65°	394	411	442	477	494	390
75°	204	221	261	298	312	215
85°	37	52	86	101	105	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1162.8	1162.8	1162.8	1162.8	1162.8
2.5°	1152.3	1157.6	1161.8	1160.7	1166.0
5°	1147.1	1152.3	1157.6	1161.8	1158.6
7.5°	1140.8	1146.1	1152.3	1158.6	1152.3
10°	1130.3	1133.5	1145.0	1146.1	1144.0
12.5°	1120.9	1124.1	1132.4	1139.8	1141.9
15°	1102.1	1107.3	1117.8	1125.1	1122.0
17.5°	1083.2	1090.5	1100.0	1107.3	1107.3
20°	1062.3	1067.5	1079.0	1084.3	1093.7
22.5°	1038.2	1044.4	1053.9	1068.5	1073.8
25°	1020.3	1017.2	1030.8	1045.5	1051.8
27.5°	984.7	988.9	1007.8	1021.4	1026.6
30°	962.7	964.8	975.3	994.2	1000.4
32.5°	924.0	930.3	949.1	962.7	974.3
35°	891.5	902.0	916.6	932.4	937.6
37.5°	863.2	865.3	882.1	903.0	907.2
40°	821.3	833.9	846.4	872.6	878.9
42.5°	788.8	795.1	812.9	838.1	847.5
45°	743.8	754.3	774.2	794.1	810.8
47.5°	704.0	714.5	740.6	765.8	768.9
50°	669.4	673.6	699.8	728.1	731.2
52.5°	622.3	632.7	657.9	689.3	699.8
55°	578.3	591.9	616.0	649.5	655.8
57.5°	539.5	545.8	574.1	607.6	620.2
60°	487.1	504.9	531.1	563.6	575.1
62.5°	442.1	458.8	487.1	517.5	530.1
65°	393.9	410.7	442.1	476.7	494.5
67.5°	347.8	361.4	399.1	434.7	443.1
70°	299.6	315.3	350.9	387.6	404.4
72.5°	249.3	267.1	306.9	341.5	359.3
75°	204.3	221.0	260.8	297.5	312.2
77.5°	157.1	176.0	214.8	251.4	268.2
80°	112.1	130.9	171.8	208.5	223.1
82.5°	72.3	92.2	130.9	163.4	176.0
85°	36.7	52.4	85.9	100.6	104.8
87.5°	11.5	18.9	29.3	33.5	33.5
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	16.02	17.68	16.38	18.00	18.31	16.80	18.47	17.17	18.79	19.10
	3H	17.80	19.31	18.17	19.63	19.99	18.95	20.46	19.32	20.79	21.15
	4H	18.43	19.86	18.83	20.21	20.58	19.87	21.30	20.27	21.65	22.02
	6H	18.86	20.19	19.27	20.55	20.94	20.70	22.02	21.11	22.39	22.78
	8H	18.97	20.24	19.40	20.63	21.03	21.04	22.31	21.47	22.70	23.10
	12H	19.03	20.24	19.46	20.62	21.05	21.29	22.50	21.72	22.88	23.31
4H	2H	16.79	18.22	17.18	18.56	18.94	17.40	18.83	17.80	19.18	19.55
	3H	18.80	20.00	19.21	20.40	20.80	19.79	20.99	20.20	21.39	21.79
	4H	19.56	20.65	19.99	21.06	21.50	20.87	21.97	21.30	22.38	22.81
	6H	20.11	21.06	20.56	21.50	21.96	21.87	22.83	22.32	23.27	23.72
	8H	20.26	21.16	20.72	21.60	22.06	22.30	23.20	22.76	23.64	24.10
	12H	20.35	21.16	20.83	21.63	22.10	22.61	23.42	23.09	23.90	24.36
8H	4H	20.04	20.94	20.50	21.38	21.84	21.18	22.08	21.64	22.52	22.98
	6H	20.73	21.48	21.22	21.96	22.44	22.35	23.10	22.84	23.58	24.06
	8H	20.96	21.63	21.46	22.13	22.62	22.89	23.56	23.40	24.07	24.55
	12H	21.10	21.70	21.61	22.19	22.75	23.32	23.92	23.82	24.41	24.96
12H	4H	20.13	20.94	20.61	21.42	21.89	21.21	22.02	21.69	22.49	22.96
	6H	20.88	21.55	21.38	22.06	22.54	22.40	23.08	22.91	23.58	24.07
	8H	21.18	21.78	21.68	22.27	22.82	23.02	23.62	23.52	24.11	24.66