

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: P1586373

Luminaire Tested: 22CZSP-37HE-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586373
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-L830
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 3500 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

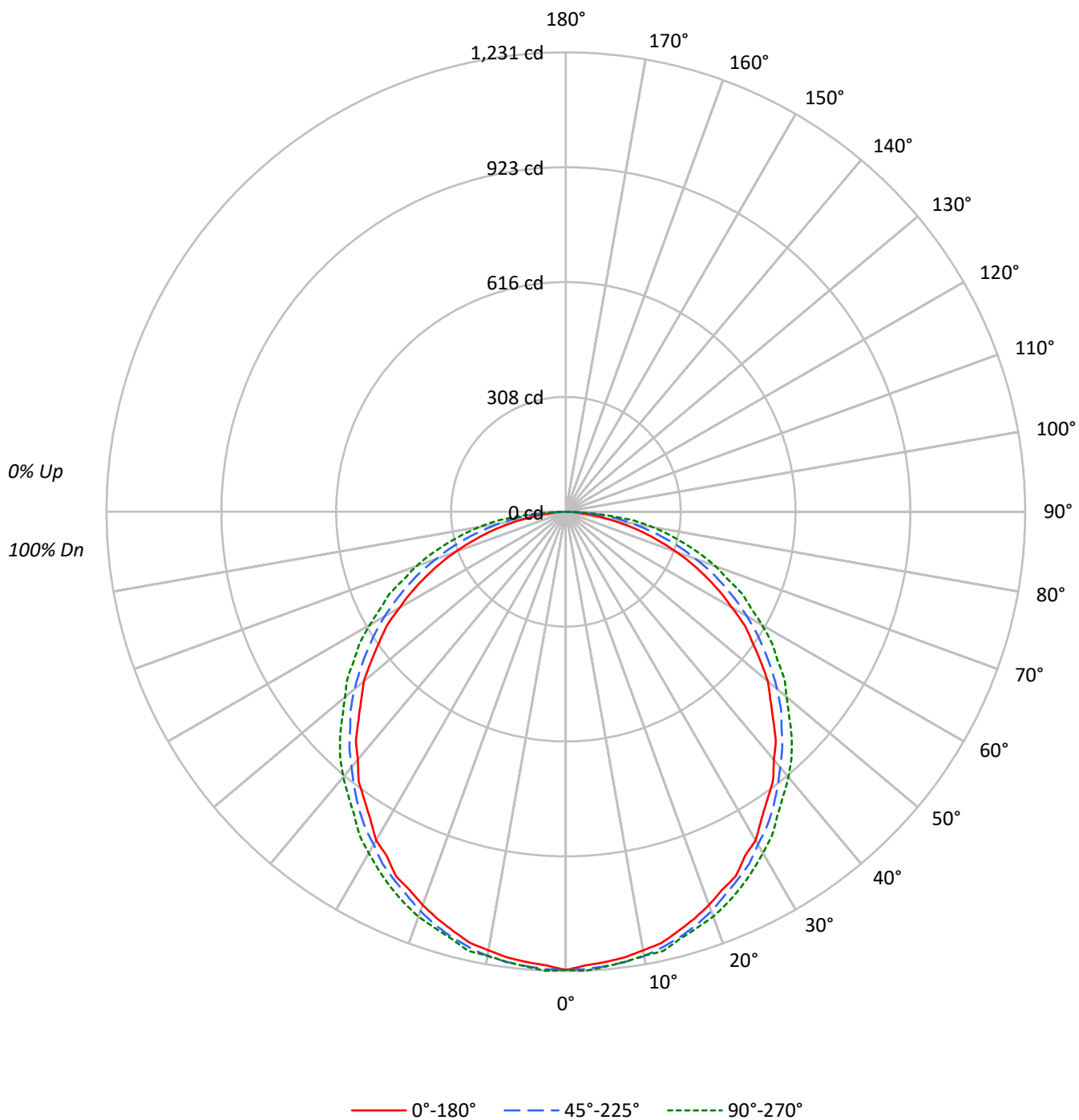
Lumens per Lamp: N/A
Luminaire Lumens: 3616.0 lumens
Efficiency: N/A
Efficacy: 150.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	50	30	10
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°	3844	3844	3844
5°	3807	3841	3845
10°	3795	3844	3840
15°	3772	3826	3840
20°	3737	3796	3848
25°	3722	3760	3836
30°	3675	3723	3819
35°	3598	3700	3784
40°	3544	3653	3793
45°	3478	3619	3791
50°	3443	3599	3761
55°	3333	3550	3780
60°	3221	3511	3803
65°	3082	3458	3868
70°	2896	3392	3908
75°	2610	3332	3988
80°	2133	3271	4248
85°	1390	3259	3974

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4457 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.0	3.2
10°-20°	332.3	9.2
20°-30°	502.2	13.9
30°-40°	605.7	16.8
40°-50°	633.2	17.5
50°-60°	583.9	16.1
60°-70°	462.7	12.8
70°-80°	289.3	8.0
80°-90°	90.7	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°	950.5	26.3
0°-40°	1556.2	43.0
0°-60°	2773.3	76.7
0°-90°	3616.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3616.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1228	1228	1228	1228	1228	
5°	1211	1217	1222	1227	1223	115
15°	1164	1169	1180	1188	1184	328
25°	1077	1074	1088	1104	1110	494
35°	941	952	968	984	990	590
45°	785	796	817	838	856	608
55°	610	625	650	686	692	547
65°	416	434	467	503	522	412
75°	216	233	275	314	330	227
85°	39	55	91	106	111	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1227.7	1227.7	1227.7	1227.7	1227.7
2.5°	1216.6	1222.1	1226.6	1225.5	1231.0
5°	1211.1	1216.6	1222.1	1226.6	1223.2
7.5°	1204.4	1210.0	1216.6	1223.2	1216.6
10°	1193.4	1196.7	1208.9	1210.0	1207.8
12.5°	1183.4	1186.7	1195.6	1203.3	1205.5
15°	1163.5	1169.0	1180.1	1187.8	1184.5
17.5°	1143.6	1151.4	1161.3	1169.0	1169.0
20°	1121.5	1127.0	1139.2	1144.7	1154.7
22.5°	1096.1	1102.7	1112.6	1128.1	1133.7
25°	1077.2	1073.9	1088.3	1103.8	1110.4
27.5°	1039.6	1044.1	1064.0	1078.4	1083.9
30°	1016.4	1018.6	1029.7	1049.6	1056.2
32.5°	975.5	982.1	1002.0	1016.4	1028.6
35°	941.2	952.3	967.8	984.3	989.9
37.5°	911.3	913.6	931.3	953.4	957.8
40°	867.1	880.4	893.7	921.3	927.9
42.5°	832.8	839.5	858.3	884.8	894.8
45°	785.3	796.3	817.3	838.4	856.0
47.5°	743.2	754.3	781.9	808.5	811.8
50°	706.7	711.2	738.8	768.7	772.0
52.5°	657.0	668.0	694.6	727.8	738.8
55°	610.5	624.9	650.3	685.7	692.4
57.5°	569.6	576.2	606.1	641.5	654.8
60°	514.3	533.1	560.7	595.0	607.2
62.5°	466.7	484.4	514.3	546.4	559.6
65°	415.9	433.6	466.7	503.2	522.0
67.5°	367.2	381.6	421.4	459.0	467.8
70°	316.3	332.9	370.5	409.2	426.9
72.5°	263.2	282.0	324.1	360.6	379.4
75°	215.7	233.4	275.4	314.1	329.6
77.5°	165.9	185.8	226.7	265.4	283.1
80°	118.3	138.3	181.4	220.1	235.6
82.5°	76.3	97.3	138.3	172.5	185.8
85°	38.7	55.3	90.7	106.2	110.6
87.5°	12.2	19.9	31.0	35.4	35.4
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	16.20	17.87	16.57	18.18	18.50	16.99	18.66	17.36	18.97	19.29
	3H	17.98	19.50	18.36	19.82	20.18	19.14	20.65	19.51	20.98	21.33
	4H	18.62	20.05	19.02	20.40	20.77	20.06	21.49	20.46	21.84	22.21
	6H	19.05	20.38	19.46	20.74	21.13	20.89	22.21	21.30	22.57	22.97
	8H	19.16	20.43	19.58	20.82	21.22	21.23	22.50	21.66	22.89	23.29
	12H	19.22	20.43	19.64	20.81	21.24	21.47	22.69	21.90	23.07	23.50
4H	2H	16.98	18.40	17.37	18.75	19.13	17.59	19.02	17.99	19.36	19.74
	3H	18.99	20.19	19.39	20.59	20.99	19.98	21.18	20.38	21.58	21.97
	4H	19.75	20.84	20.18	21.25	21.69	21.06	22.15	21.49	22.57	23.00
	6H	20.29	21.25	20.75	21.69	22.15	22.06	23.02	22.51	23.46	23.91
	8H	20.45	21.35	20.91	21.79	22.25	22.49	23.38	22.95	23.83	24.29
	12H	20.54	21.35	21.02	21.82	22.29	22.80	23.61	23.28	24.08	24.55
8H	4H	20.23	21.12	20.69	21.57	22.03	21.37	22.27	21.83	22.71	23.17
	6H	20.92	21.67	21.41	22.15	22.63	22.53	23.28	23.03	23.77	24.24
	8H	21.14	21.82	21.65	22.32	22.81	23.08	23.75	23.59	24.26	24.74
	12H	21.29	21.89	21.80	22.38	22.94	23.51	24.10	24.01	24.59	25.15
12H	4H	20.32	21.13	20.80	21.61	22.07	21.40	22.21	21.88	22.68	23.15
	6H	21.07	21.74	21.57	22.24	22.73	22.59	23.27	23.10	23.77	24.26
	8H	21.37	21.96	21.87	22.45	23.01	23.21	23.80	23.71	24.29	24.85