

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: P1586390

Luminaire Tested: 22CZSP-37HE-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586390
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-37HE-L950-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 3500 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

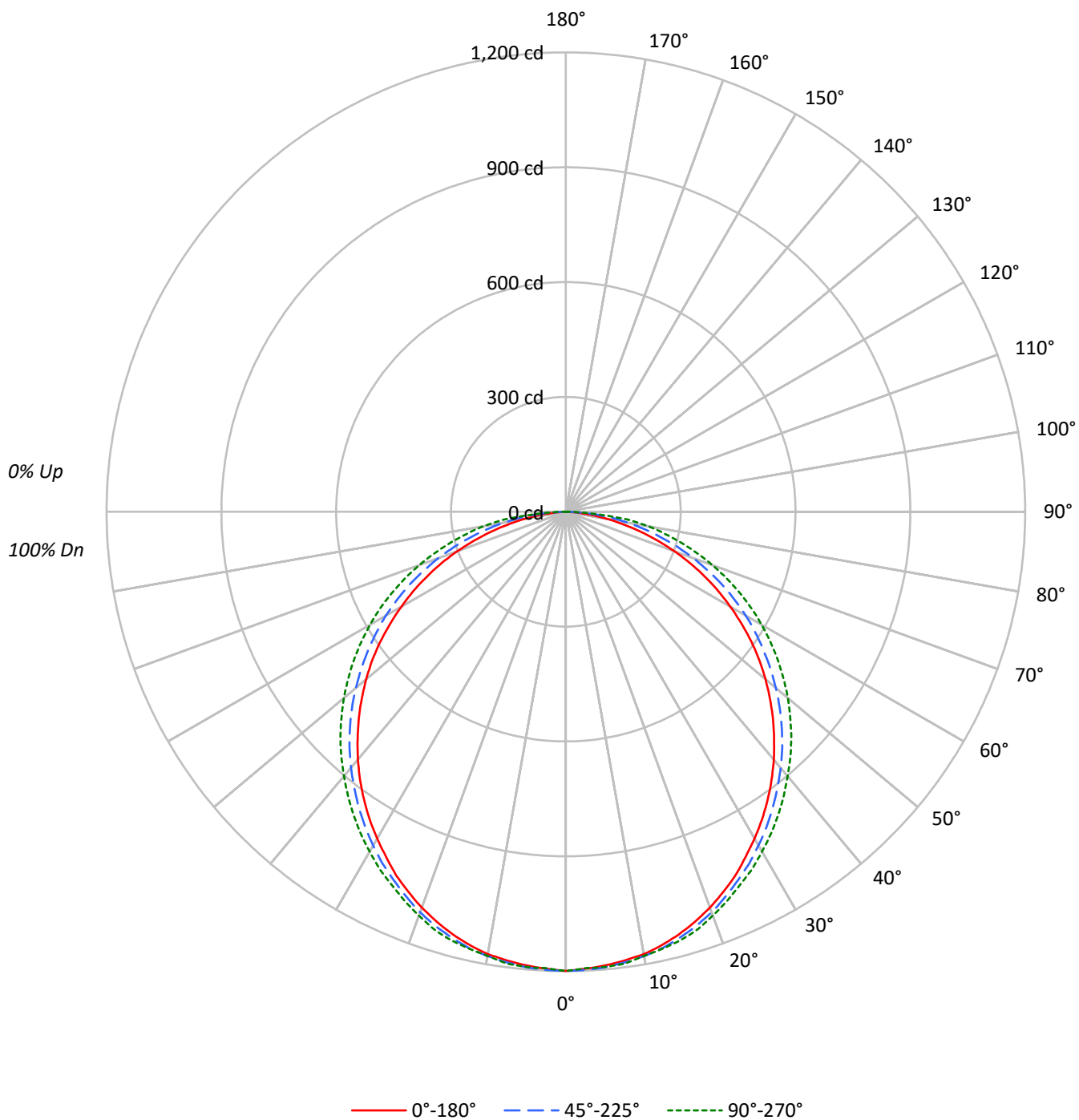
Lumens per Lamp: N/A
Luminaire Lumens: 3502.0 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3756	3756	3756
5°	3739	3753	3751
10°	3731	3748	3746
15°	3704	3734	3757
20°	3667	3711	3741
25°	3621	3672	3717
30°	3565	3640	3706
35°	3513	3604	3695
40°	3455	3568	3685
45°	3389	3532	3689
50°	3317	3489	3687
55°	3230	3440	3692
60°	3109	3402	3701
65°	2967	3336	3712
70°	2765	3243	3729
75°	2463	3114	3765
80°	2038	2965	3949
85°	1326	2677	3453

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4074 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.4	3.2
10°-20°	324.8	9.3
20°-30°	489.9	14.0
30°-40°	590.1	16.8
40°-50°	616.2	17.6
50°-60°	566.0	16.2
60°-70°	445.8	12.7
70°-80°	273.5	7.8
80°-90°	82.3	2.3
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°	928.2	26.5
0°-40°	1518.3	43.4
0°-60°	2700.5	77.1
0°-90°	3502.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3502.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1200	1200	1200	1200	1200	
5°	1190	1191	1194	1198	1193	113
15°	1143	1145	1152	1159	1159	322
25°	1048	1050	1063	1076	1076	482
35°	919	924	943	962	967	575
45°	765	774	798	825	833	590
55°	592	602	630	666	676	528
65°	400	414	450	488	501	396
75°	204	220	257	298	311	216
85°	37	51	74	94	96	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1199.5	1199.5	1199.5	1199.5	1199.5
2.5°	1194.9	1197.2	1198.0	1198.8	1193.4
5°	1189.5	1191.1	1194.1	1198.0	1193.4
7.5°	1181.9	1183.4	1187.2	1192.6	1190.3
10°	1173.4	1174.2	1178.8	1182.6	1178.0
12.5°	1159.6	1161.9	1167.3	1170.3	1168.8
15°	1142.7	1145.0	1151.9	1158.8	1158.8
17.5°	1122.7	1125.8	1134.2	1143.4	1144.2
20°	1100.4	1102.7	1113.5	1122.7	1122.7
22.5°	1075.0	1078.1	1088.9	1098.9	1100.4
25°	1048.1	1050.5	1062.7	1075.8	1075.8
27.5°	1016.6	1021.3	1036.6	1049.7	1052.8
30°	985.9	989.7	1006.7	1022.8	1025.1
32.5°	953.6	958.2	975.9	993.6	997.4
35°	919.0	923.7	942.9	962.1	966.7
37.5°	882.9	888.3	908.3	930.6	935.2
40°	845.3	851.4	872.9	896.8	901.4
42.5°	805.3	813.8	836.8	861.4	868.3
45°	765.4	773.8	797.6	825.3	833.0
47.5°	723.1	733.1	757.7	786.9	795.3
50°	680.8	690.8	716.2	747.7	756.9
52.5°	637.8	647.8	673.9	707.0	717.0
55°	591.7	602.5	630.1	665.5	676.2
57.5°	544.1	557.9	587.1	623.2	634.0
60°	496.4	510.2	543.3	578.6	590.9
62.5°	449.5	462.6	496.4	534.1	547.1
65°	400.4	414.2	450.3	488.0	501.0
67.5°	351.9	365.8	401.9	441.1	454.9
70°	302.0	317.4	354.2	393.4	407.3
72.5°	252.0	268.2	305.8	345.8	358.9
75°	203.6	219.8	257.4	298.2	311.2
77.5°	156.0	173.7	210.6	252.0	264.3
80°	113.0	129.9	164.4	205.2	219.0
82.5°	72.2	86.8	121.4	159.8	169.8
85°	36.9	50.7	74.5	94.5	96.1
87.5°	11.5	16.1	24.6	36.9	37.7
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	16.08	17.74	16.44	18.05	18.37	16.91	18.57	17.27	18.88	19.20
	3H	17.83	19.34	18.21	19.67	20.02	19.02	20.53	19.40	20.86	21.22
	4H	18.45	19.87	18.85	20.22	20.59	19.91	21.33	20.31	21.68	22.06
	6H	18.86	20.18	19.27	20.55	20.94	20.69	22.01	21.10	22.38	22.77
	8H	18.97	20.23	19.39	20.62	21.02	21.01	22.28	21.44	22.66	23.06
	12H	19.02	20.23	19.45	20.61	21.04	21.22	22.43	21.65	22.82	23.24
4H	2H	16.85	18.27	17.25	18.62	18.99	17.49	18.92	17.89	19.26	19.64
	3H	18.82	20.02	19.23	20.42	20.82	19.85	21.05	20.26	21.44	21.84
	4H	19.56	20.65	19.99	21.06	21.50	20.90	21.99	21.33	22.40	22.83
	6H	20.09	21.04	20.54	21.48	21.94	21.85	22.81	22.31	23.25	23.70
	8H	20.24	21.13	20.70	21.57	22.03	22.25	23.14	22.71	23.58	24.05
	12H	20.32	21.12	20.80	21.60	22.07	22.53	23.33	23.01	23.81	24.27
8H	4H	20.02	20.91	20.48	21.35	21.82	21.19	22.08	21.65	22.52	22.99
	6H	20.68	21.43	21.17	21.91	22.39	22.30	23.05	22.79	23.53	24.01
	8H	20.89	21.56	21.40	22.07	22.55	22.81	23.48	23.32	23.99	24.47
	12H	21.03	21.62	21.54	22.11	22.67	23.20	23.79	23.70	24.28	24.84
12H	4H	20.11	20.91	20.59	21.39	21.86	21.21	22.02	21.69	22.49	22.96
	6H	20.81	21.48	21.32	21.99	22.47	22.35	23.02	22.86	23.52	24.01
	8H	21.09	21.68	21.60	22.17	22.73	22.93	23.52	23.43	24.01	24.57