

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: P1586350

Luminaire Tested: 22CZSP-33HE-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586350
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-33HE-L950-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 3000 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

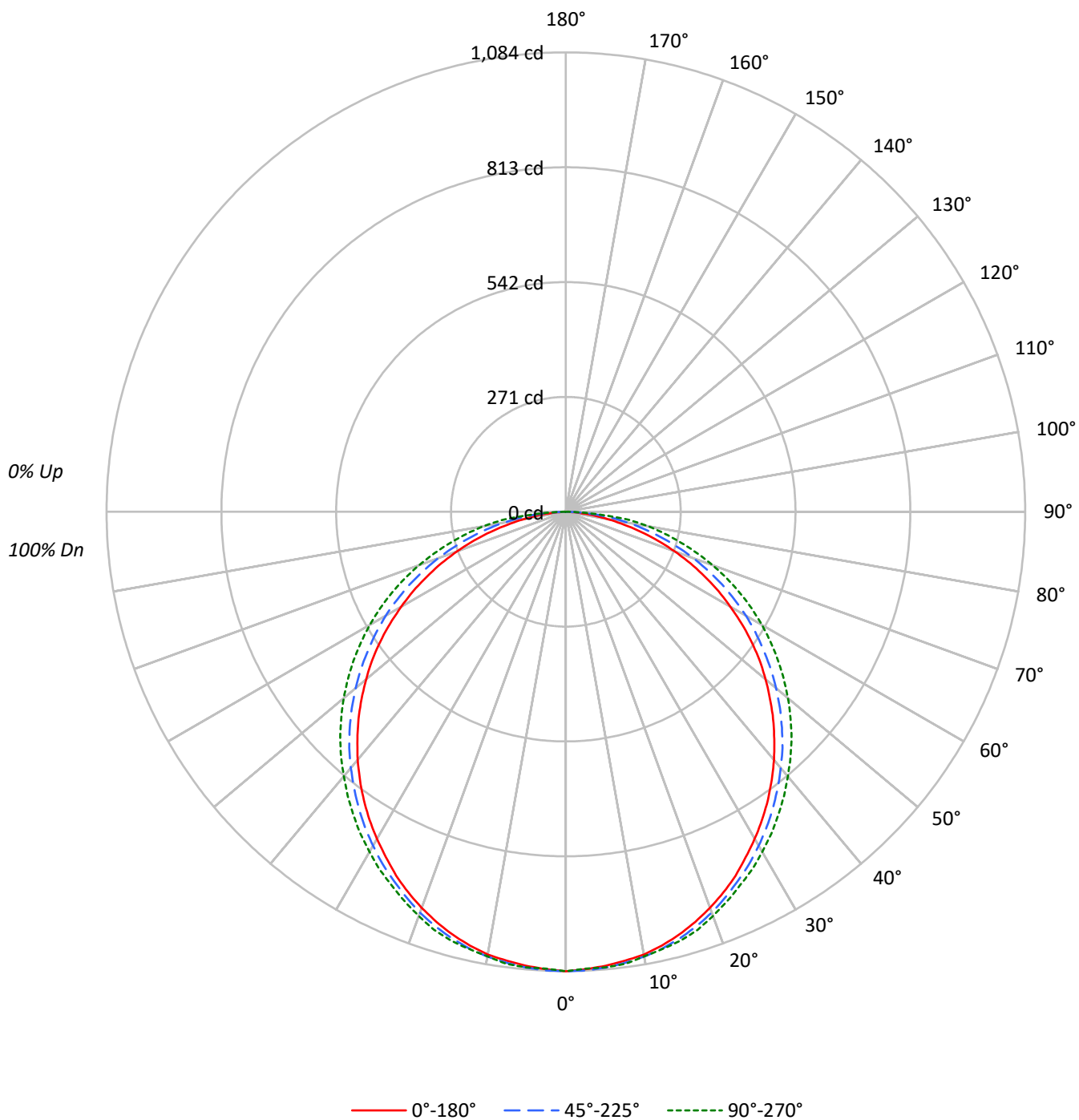
Lumens per Lamp: N/A
Luminaire Lumens: 3166.0 lumens
Efficiency: N/A
Efficacy: 145.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
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	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°	3396	3396	3396
5°	3380	3393	3391
10°	3373	3389	3386
15°	3349	3376	3396
20°	3315	3354	3382
25°	3274	3320	3360
30°	3223	3291	3351
35°	3176	3258	3341
40°	3124	3226	3331
45°	3064	3193	3335
50°	2998	3154	3334
55°	2920	3110	3337
60°	2811	3076	3346
65°	2681	3016	3356
70°	2499	2932	3371
75°	2227	2815	3405
80°	1841	2681	3570
85°	1196	2422	3119

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3682 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.6	3.2
10°-20°	293.7	9.3
20°-30°	442.9	14.0
30°-40°	533.5	16.8
40°-50°	557.1	17.6
50°-60°	511.7	16.2
60°-70°	403.0	12.7
70°-80°	247.2	7.8
80°-90°	74.4	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°	839.1	26.5
0°-40°	1372.6	43.4
0°-60°	2441.4	77.1
0°-90°	3166.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3166.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1084	1084	1084	1084	1084	
5°	1075	1077	1080	1083	1079	102
15°	1033	1035	1041	1048	1048	291
25°	948	950	961	973	973	436
35°	831	835	852	870	874	520
45°	692	700	721	746	753	533
55°	535	545	570	602	611	478
65°	362	374	407	441	453	358
75°	184	199	233	270	281	195
85°	33	46	67	85	87	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1084.4	1084.4	1084.4	1084.4	1084.4
2.5°	1080.3	1082.4	1083.1	1083.7	1078.9
5°	1075.4	1076.8	1079.6	1083.1	1078.9
7.5°	1068.5	1069.9	1073.3	1078.2	1076.1
10°	1060.8	1061.5	1065.7	1069.2	1065.0
12.5°	1048.3	1050.4	1055.3	1058.0	1056.7
15°	1033.0	1035.1	1041.4	1047.6	1047.6
17.5°	1015.0	1017.7	1025.4	1033.7	1034.4
20°	994.8	996.9	1006.6	1015.0	1015.0
22.5°	971.9	974.7	984.4	993.4	994.8
25°	947.6	949.7	960.8	972.6	972.6
27.5°	919.1	923.3	937.2	949.0	951.8
30°	891.3	894.8	910.1	924.7	926.7
32.5°	862.1	866.3	882.3	898.3	901.7
35°	830.9	835.0	852.4	869.8	873.9
37.5°	798.2	803.1	821.1	841.3	845.5
40°	764.2	769.7	789.2	810.7	814.9
42.5°	728.1	735.7	756.5	778.8	785.0
45°	691.9	699.6	721.1	746.1	753.1
47.5°	653.7	662.8	685.0	711.4	719.0
50°	615.5	624.5	647.5	676.0	684.3
52.5°	576.6	585.6	609.3	639.1	648.2
55°	534.9	544.7	569.7	601.6	611.3
57.5°	491.9	504.4	530.8	563.4	573.1
60°	448.8	461.3	491.2	523.1	534.2
62.5°	406.4	418.2	448.8	482.8	494.6
65°	361.9	374.4	407.1	441.1	452.9
67.5°	318.2	330.7	363.3	398.8	411.3
70°	273.0	286.9	320.3	355.7	368.2
72.5°	227.9	242.5	276.5	312.6	324.4
75°	184.1	198.7	232.7	269.5	281.4
77.5°	141.0	157.0	190.4	227.9	239.0
80°	102.1	117.4	148.7	185.5	198.0
82.5°	65.3	78.5	109.8	144.5	153.5
85°	33.3	45.9	67.4	85.4	86.8
87.5°	10.4	14.6	22.2	33.3	34.0
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	15.73	17.39	16.09	17.70	18.02	16.56	18.22	16.92	18.53	18.85
	3H	17.48	18.99	17.86	19.31	19.67	18.67	20.18	19.05	20.51	20.87
	4H	18.10	19.52	18.50	19.87	20.24	19.56	20.98	19.96	21.33	21.71
	6H	18.51	19.83	18.92	20.19	20.59	20.34	21.66	20.75	22.03	22.42
	8H	18.62	19.88	19.04	20.27	20.67	20.66	21.92	21.09	22.31	22.71
	12H	18.67	19.88	19.10	20.26	20.69	20.87	22.08	21.30	22.47	22.89
4H	2H	16.50	17.92	16.90	18.27	18.64	17.14	18.57	17.54	18.91	19.29
	3H	18.47	19.67	18.88	20.07	20.47	19.50	20.70	19.91	21.09	21.49
	4H	19.21	20.30	19.64	20.71	21.15	20.55	21.64	20.98	22.05	22.48
	6H	19.74	20.69	20.19	21.13	21.59	21.50	22.46	21.96	22.90	23.35
	8H	19.89	20.78	20.35	21.22	21.68	21.90	22.79	22.36	23.23	23.70
	12H	19.97	20.77	20.45	21.25	21.72	22.18	22.98	22.66	23.45	23.92
8H	4H	19.67	20.56	20.13	21.00	21.47	20.84	21.73	21.30	22.17	22.64
	6H	20.33	21.08	20.82	21.56	22.04	21.95	22.70	22.44	23.18	23.66
	8H	20.54	21.21	21.05	21.72	22.20	22.46	23.13	22.97	23.64	24.12
	12H	20.68	21.27	21.19	21.76	22.32	22.85	23.44	23.35	23.93	24.49
12H	4H	19.76	20.56	20.24	21.04	21.51	20.86	21.67	21.34	22.14	22.61
	6H	20.46	21.13	20.97	21.64	22.12	22.00	22.67	22.51	23.17	23.66
	8H	20.74	21.33	21.25	21.82	22.38	22.58	23.17	23.08	23.66	24.22