

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: P1586351

Luminaire Tested: 22CZSP-33HE-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586351
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-33HE-L950
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 3000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

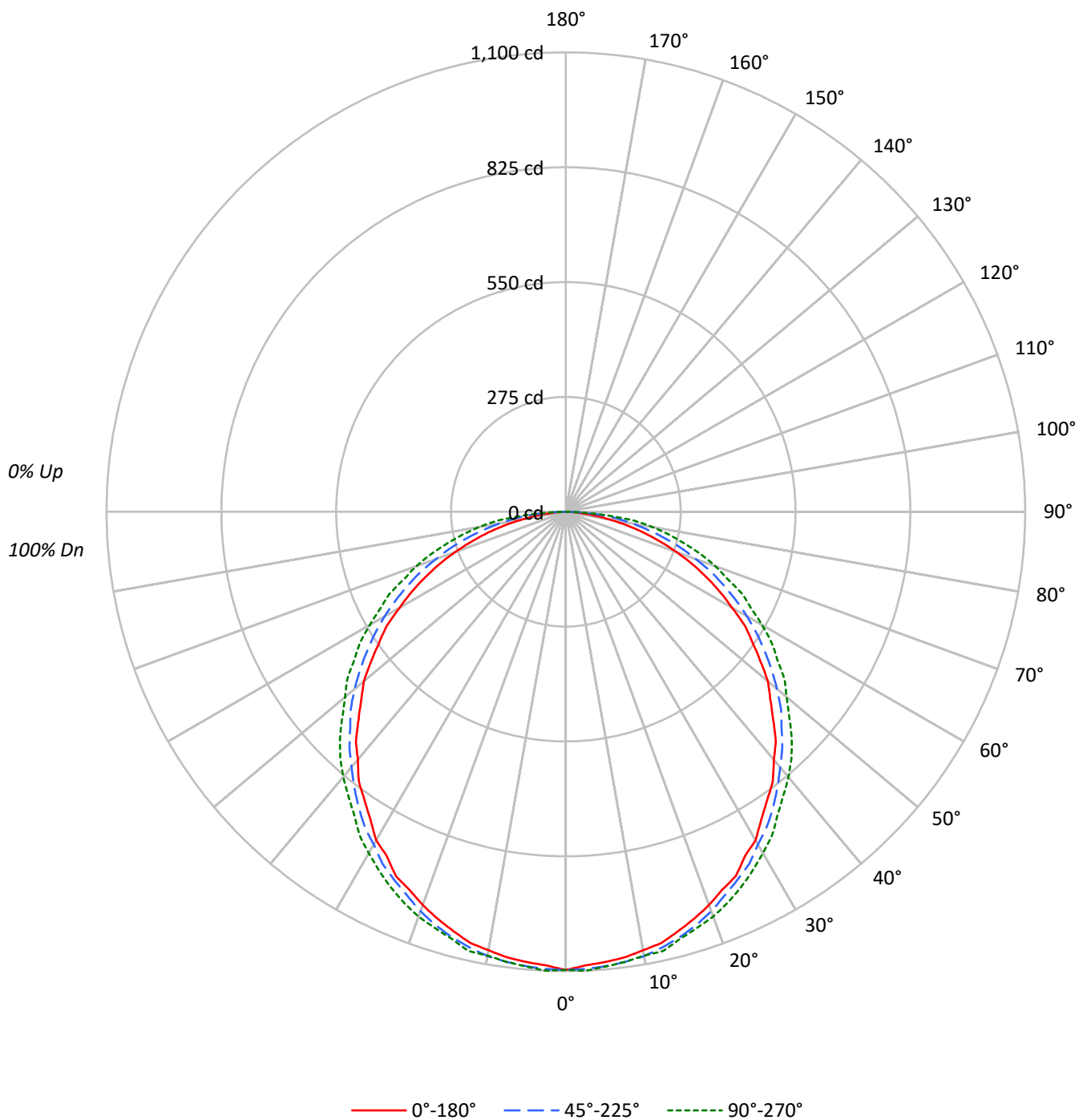
Lumens per Lamp: N/A
Luminaire Lumens: 3231.0 lumens
Efficiency: N/A
Efficacy: 148.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P1586351

CATALOG NUMBER: 22CZSP-33HE-L950

Luminous Intensity Polar Plot



TEST NUMBER: P1586351

CATALOG NUMBER: 22CZSP-33HE-L950

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°	3435	3435	3435
5°	3401	3432	3436
10°	3390	3435	3431
15°	3370	3418	3431
20°	3339	3392	3438
25°	3326	3360	3428
30°	3284	3327	3413
35°	3215	3305	3381
40°	3167	3264	3389
45°	3107	3234	3387
50°	3076	3216	3360
55°	2978	3172	3377
60°	2878	3138	3397
65°	2753	3090	3456
70°	2587	3031	3493
75°	2331	2977	3563
80°	1906	2923	3796
85°	1243	2910	3550

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3982 cd/sqm

TEST NUMBER: P1586351

CATALOG NUMBER: 22CZSP-33HE-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	3.2
10°-20°	296.9	9.2
20°-30°	448.7	13.9
30°-40°	541.2	16.8
40°-50°	565.8	17.5
50°-60°	521.7	16.1
60°-70°	413.4	12.8
70°-80°	258.5	8.0
80°-90°	81.1	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°	849.3	26.3
0°-40°	1390.5	43.0
0°-60°	2478.0	76.7
0°-90°	3231.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3231.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1097	1097	1097	1097	1097	
5°	1082	1087	1092	1096	1093	103
15°	1040	1045	1054	1061	1058	293
25°	963	960	972	986	992	441
35°	841	851	865	880	884	527
45°	702	712	730	749	765	543
55°	546	558	581	613	619	489
65°	372	387	417	450	466	368
75°	193	208	246	281	294	203
85°	35	49	81	95	99	45
90°	0	0	0	0	0	

TEST NUMBER: P1586351

CATALOG NUMBER: 22CZSP-33HE-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1097.0	1097.0	1097.0	1097.0	1097.0
2.5°	1087.1	1092.0	1096.0	1095.0	1099.9
5°	1082.1	1087.1	1092.0	1096.0	1093.0
7.5°	1076.2	1081.1	1087.1	1093.0	1087.1
10°	1066.3	1069.3	1080.2	1081.1	1079.2
12.5°	1057.4	1060.4	1068.3	1075.2	1077.2
15°	1039.6	1044.6	1054.5	1061.4	1058.4
17.5°	1021.8	1028.8	1037.7	1044.6	1044.6
20°	1002.1	1007.0	1017.9	1022.8	1031.7
22.5°	979.4	985.3	994.2	1008.0	1013.0
25°	962.6	959.6	972.4	986.3	992.2
27.5°	929.0	932.9	950.7	963.5	968.5
30°	908.2	910.2	920.1	937.8	943.8
32.5°	871.6	877.6	895.4	908.2	919.1
35°	841.0	850.9	864.7	879.5	884.5
37.5°	814.3	816.3	832.1	851.9	855.8
40°	774.8	786.6	798.5	823.2	829.1
42.5°	744.2	750.1	766.9	790.6	799.5
45°	701.7	711.5	730.3	749.1	764.9
47.5°	664.1	674.0	698.7	722.4	725.4
50°	631.5	635.4	660.1	686.8	689.8
52.5°	587.0	596.9	620.6	650.3	660.1
55°	545.5	558.4	581.1	612.7	618.6
57.5°	508.9	514.9	541.6	573.2	585.0
60°	459.5	476.3	501.0	531.7	542.5
62.5°	417.0	432.9	459.5	488.2	500.1
65°	371.6	387.4	417.0	449.7	466.5
67.5°	328.1	340.9	376.5	410.1	418.0
70°	282.6	297.5	331.1	365.7	381.5
72.5°	235.2	252.0	289.6	322.2	339.0
75°	192.7	208.5	246.1	280.7	294.5
77.5°	148.2	166.0	202.6	237.2	253.0
80°	105.7	123.5	162.1	196.7	210.5
82.5°	68.2	87.0	123.5	154.2	166.0
85°	34.6	49.4	81.0	94.9	98.8
87.5°	10.9	17.8	27.7	31.6	31.6
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1586351

CATALOG NUMBER: 22CZSP-33HE-L950

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	15.81	17.48	16.18	17.79	18.11	16.60	18.27	16.97	18.58	18.90
	3H	17.59	19.11	17.97	19.43	19.79	18.75	20.26	19.12	20.58	20.94
	4H	18.23	19.66	18.63	20.01	20.38	19.67	21.10	20.07	21.44	21.82
	6H	18.66	19.98	19.07	20.35	20.74	20.49	21.82	20.90	22.18	22.57
	8H	18.77	20.04	19.19	20.43	20.82	20.84	22.11	21.26	22.50	22.90
	12H	18.82	20.04	19.25	20.42	20.85	21.08	22.30	21.51	22.68	23.11
4H	2H	16.58	18.01	16.98	18.36	18.73	17.20	18.63	17.60	18.97	19.35
	3H	18.59	19.80	19.00	20.20	20.59	19.58	20.79	19.99	21.18	21.58
	4H	19.36	20.45	19.79	20.86	21.29	20.67	21.76	21.10	22.18	22.61
	6H	19.90	20.86	20.36	21.30	21.75	21.67	22.63	22.12	23.07	23.52
	8H	20.06	20.96	20.52	21.40	21.86	22.10	22.99	22.55	23.44	23.90
	12H	20.15	20.96	20.63	21.43	21.90	22.41	23.22	22.89	23.69	24.16
8H	4H	19.84	20.73	20.29	21.17	21.64	20.98	21.88	21.44	22.32	22.78
	6H	20.53	21.28	21.02	21.76	22.24	22.14	22.89	22.64	23.38	23.85
	8H	20.75	21.43	21.26	21.93	22.42	22.69	23.36	23.20	23.87	24.35
	12H	20.90	21.50	21.41	21.99	22.55	23.12	23.71	23.62	24.20	24.76
12H	4H	19.93	20.74	20.41	21.22	21.68	21.01	21.82	21.49	22.29	22.76
	6H	20.67	21.35	21.18	21.85	22.34	22.20	22.88	22.71	23.38	23.86
	8H	20.98	21.57	21.48	22.06	22.62	22.82	23.41	23.32	23.90	24.46