

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: P1587630

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-33HE-L950-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 3000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

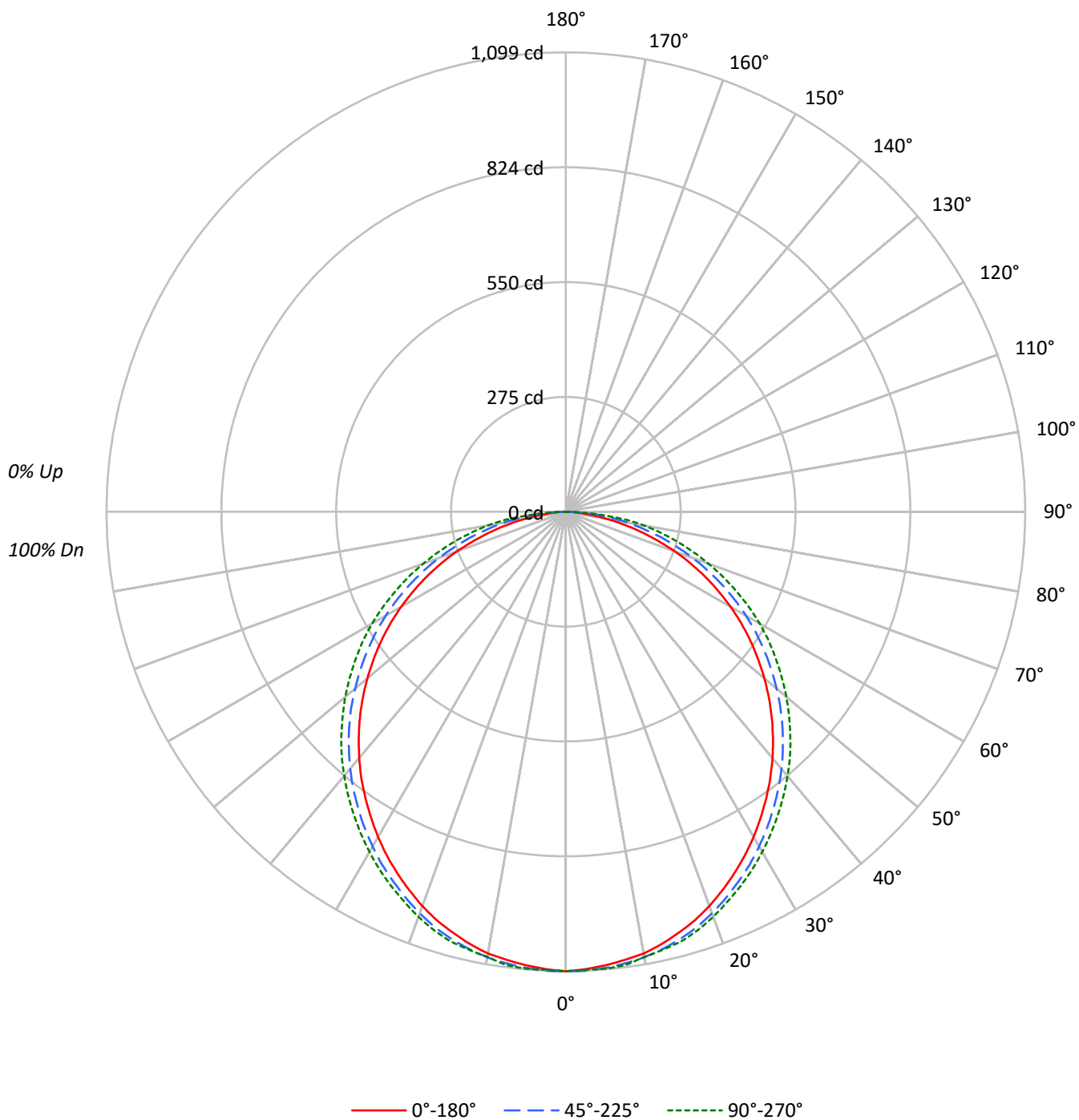
Lumens per Lamp: N/A
Luminaire Lumens: 3198.0 lumens
Efficiency: N/A
Efficacy: 147.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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

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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	94	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	66	61		69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53		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	45	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3443	3443	3443
5°	3423	3443	3449
10°	3412	3441	3439
15°	3381	3430	3450
20°	3345	3407	3437
25°	3297	3373	3416
30°	3249	3343	3398
35°	3195	3311	3382
40°	3144	3282	3372
45°	3086	3248	3363
50°	3020	3207	3355
55°	2945	3166	3350
60°	2852	3119	3352
65°	2722	3053	3333
70°	2544	2960	3325
75°	2255	2847	3338
80°	1836	2705	3437
85°	1186	2497	2968

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3483 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.0	3.3
10°-20°	297.9	9.3
20°-30°	449.2	14.0
30°-40°	540.5	16.9
40°-50°	563.8	17.6
50°-60°	516.8	16.2
60°-70°	405.8	12.7
70°-80°	247.0	7.7
80°-90°	73.1	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°	851.1	26.6
0°-40°	1391.6	43.5
0°-60°	2472.2	77.3
0°-90°	3198.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3198.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1099	1099	1099	1099	1099	
5°	1089	1096	1095	1094	1097	103
15°	1043	1053	1058	1060	1064	294
25°	954	967	976	982	989	440
35°	836	849	866	878	885	523
45°	697	711	733	751	760	537
55°	539	553	580	603	614	482
65°	367	381	412	440	450	363
75°	186	204	235	264	276	198
85°	33	47	70	78	83	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1099.4	1099.4	1099.4	1099.4	1099.4
2.5°	1095.2	1100.7	1099.4	1094.5	1096.6
5°	1089.0	1095.9	1095.2	1093.9	1097.3
7.5°	1081.5	1089.0	1089.7	1089.7	1093.9
10°	1073.2	1080.8	1082.2	1080.1	1081.5
12.5°	1059.5	1068.4	1071.2	1071.2	1073.2
15°	1042.9	1053.3	1058.1	1059.5	1064.3
17.5°	1025.1	1036.1	1042.3	1045.7	1049.8
20°	1003.7	1015.4	1022.3	1026.4	1031.3
22.5°	979.7	992.7	1000.3	1004.4	1009.9
25°	954.2	967.3	976.2	982.4	988.6
27.5°	927.4	939.8	952.1	959.7	965.2
30°	898.5	911.5	924.6	934.3	939.8
32.5°	867.5	881.3	896.4	906.7	912.9
35°	835.9	848.9	866.1	878.5	884.7
37.5°	803.5	817.3	835.2	848.3	855.8
40°	769.1	783.6	802.9	817.3	824.9
42.5°	733.4	747.1	768.5	785.0	793.9
45°	696.9	711.4	733.4	750.6	759.5
47.5°	659.1	672.8	696.9	716.9	724.4
50°	619.9	632.9	658.4	679.7	688.6
52.5°	580.0	593.7	619.2	641.9	651.5
55°	539.4	553.1	580.0	603.3	613.7
57.5°	498.1	511.8	539.4	563.4	575.8
60°	455.4	469.2	498.1	522.9	535.2
62.5°	411.4	425.8	455.4	480.9	494.0
65°	367.4	381.1	412.1	439.6	449.9
67.5°	323.3	337.1	367.4	394.9	407.3
70°	277.9	293.8	323.3	352.2	363.2
72.5°	230.5	248.4	277.9	308.2	319.2
75°	186.4	203.6	235.3	263.5	275.9
77.5°	143.1	161.7	191.3	220.1	232.5
80°	101.8	119.7	150.0	177.5	190.6
82.5°	64.7	80.5	110.8	135.5	145.2
85°	33.0	46.8	69.5	77.7	82.6
87.5°	9.6	16.5	24.8	31.0	34.4
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	15.79	17.45	16.16	17.77	18.08	16.53	18.19	16.89	18.50	18.82
	3H	17.56	19.07	17.94	19.39	19.75	18.61	20.11	18.99	20.44	20.80
	4H	18.18	19.60	18.58	19.95	20.32	19.47	20.89	19.87	21.24	21.62
	6H	18.59	19.91	19.00	20.27	20.66	20.22	21.54	20.63	21.90	22.29
	8H	18.69	19.95	19.12	20.34	20.74	20.51	21.77	20.94	22.16	22.56
	12H	18.74	19.95	19.17	20.33	20.76	20.71	21.92	21.14	22.30	22.73
4H	2H	16.56	17.98	16.96	18.33	18.70	17.13	18.55	17.53	18.90	19.28
	3H	18.55	19.75	18.96	20.15	20.55	19.45	20.64	19.86	21.04	21.44
	4H	19.30	20.38	19.73	20.79	21.23	20.47	21.55	20.90	21.96	22.40
	6H	19.83	20.77	20.28	21.21	21.67	21.37	22.32	21.82	22.76	23.21
	8H	19.97	20.86	20.43	21.30	21.76	21.74	22.63	22.20	23.07	23.53
	12H	20.05	20.85	20.53	21.32	21.79	21.99	22.79	22.47	23.27	23.74
8H	4H	19.74	20.63	20.20	21.07	21.54	20.76	21.65	21.22	22.09	22.56
	6H	20.41	21.15	20.90	21.63	22.11	21.82	22.56	22.31	23.05	23.52
	8H	20.61	21.28	21.12	21.79	22.27	22.29	22.96	22.80	23.46	23.95
	12H	20.75	21.34	21.26	21.83	22.39	22.64	23.23	23.15	23.72	24.28
12H	4H	19.82	20.62	20.30	21.10	21.57	20.79	21.59	21.27	22.06	22.53
	6H	20.53	21.20	21.04	21.70	22.19	21.87	22.54	22.38	23.04	23.53
	8H	20.81	21.40	21.31	21.89	22.44	22.41	23.00	22.91	23.49	24.05