

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: P1587629

Luminaire Tested: 22CZSP-SB-33HE-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-33HE-L945
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 3000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

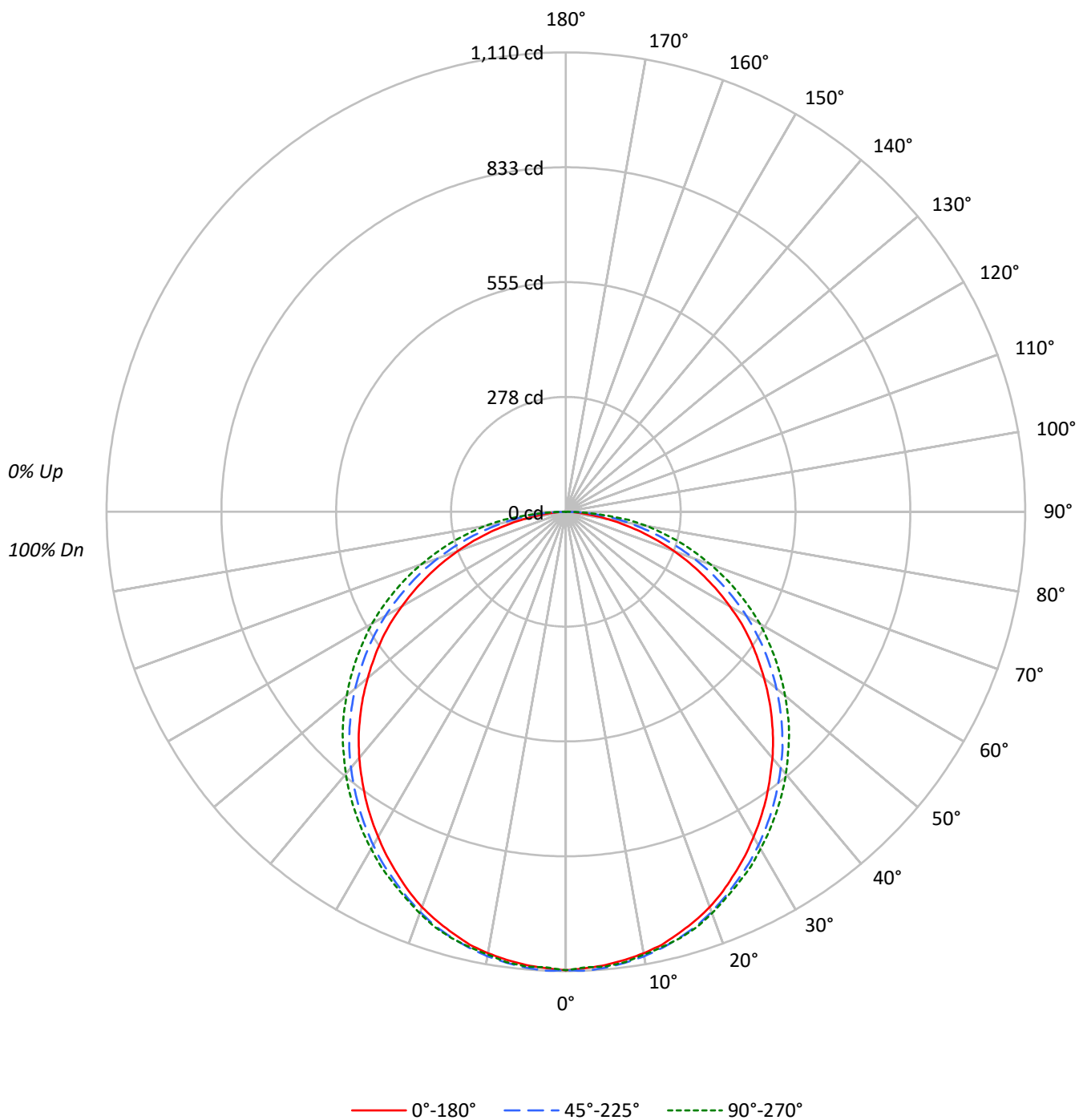
Lumens per Lamp: N/A
Luminaire Lumens: 3233.0 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	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	68
3	89	79	70	63	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°	3469	3469	3469
5°	3456	3476	3467
10°	3444	3468	3455
15°	3418	3454	3458
20°	3388	3429	3441
25°	3333	3393	3416
30°	3281	3365	3402
35°	3228	3332	3390
40°	3174	3303	3382
45°	3115	3273	3379
50°	3047	3237	3370
55°	2978	3201	3369
60°	2867	3154	3390
65°	2733	3093	3392
70°	2550	3007	3402
75°	2268	2898	3460
80°	1863	2777	3590
85°	1229	2605	3244

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3678 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.8	3.2
10°-20°	300.0	9.3
20°-30°	452.1	14.0
30°-40°	544.5	16.8
40°-50°	568.8	17.6
50°-60°	522.6	16.2
60°-70°	411.5	12.7
70°-80°	252.3	7.8
80°-90°	76.5	2.4
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°	856.9	26.5
0°-40°	1401.3	43.3
0°-60°	2492.7	77.1
0°-90°	3233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3233.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1108	1108	1108	1108	1108	
5°	1100	1102	1106	1104	1103	104
15°	1054	1059	1065	1070	1067	298
25°	965	971	982	992	989	445
35°	844	855	872	888	887	528
45°	703	718	739	760	763	543
55°	545	561	586	612	617	487
65°	369	388	417	446	458	365
75°	188	209	240	268	286	199
85°	34	51	72	81	90	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1107.8	1107.8	1107.8	1107.8	1107.8
2.5°	1103.7	1106.5	1109.9	1104.4	1101.7
5°	1099.6	1101.7	1105.8	1104.4	1103.0
7.5°	1092.1	1093.5	1098.9	1098.9	1097.6
10°	1083.2	1085.9	1090.7	1090.0	1086.6
12.5°	1071.6	1073.6	1079.1	1079.1	1077.0
15°	1054.4	1058.6	1065.4	1069.5	1066.8
17.5°	1036.7	1040.8	1049.7	1053.8	1052.4
20°	1016.8	1020.2	1029.1	1035.3	1032.6
22.5°	992.2	996.3	1006.5	1013.4	1010.7
25°	964.8	971.0	981.9	992.2	988.8
27.5°	937.4	944.3	958.0	968.2	966.9
30°	907.3	916.2	930.6	943.6	940.9
32.5°	876.5	886.8	901.9	915.5	914.9
35°	844.4	855.3	871.7	887.5	886.8
37.5°	810.2	823.2	840.3	857.4	858.1
40°	776.6	789.0	808.1	826.6	827.3
42.5°	741.1	754.1	774.6	793.7	794.4
45°	703.4	718.5	739.0	759.5	763.0
47.5°	665.1	680.8	702.1	723.9	728.1
50°	625.4	641.8	664.4	687.7	691.8
52.5°	585.0	602.2	625.4	648.7	654.8
55°	545.4	561.1	586.4	611.7	617.2
57.5°	503.6	518.0	545.4	572.0	578.9
60°	457.8	475.6	503.6	530.3	541.3
62.5°	413.3	432.5	461.2	487.9	500.2
65°	368.8	388.0	417.4	445.5	457.8
67.5°	323.7	343.5	375.0	401.7	415.3
70°	278.5	298.3	328.4	357.2	371.6
72.5°	233.3	254.5	284.0	313.4	327.8
75°	187.5	209.4	239.5	268.2	286.0
77.5°	144.4	165.6	195.7	225.1	240.2
80°	103.3	124.5	154.0	183.4	199.1
82.5°	65.7	85.5	114.3	138.9	153.3
85°	34.2	50.6	72.5	80.7	90.3
87.5°	10.3	19.8	28.1	31.5	39.0
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	15.84	17.50	16.20	17.81	18.13	16.58	18.24	16.95	18.56	18.87
	3H	17.60	19.11	17.97	19.43	19.79	18.68	20.18	19.05	20.51	20.87
	4H	18.22	19.64	18.62	19.99	20.37	19.56	20.98	19.96	21.33	21.71
	6H	18.63	19.96	19.05	20.32	20.71	20.33	21.65	20.74	22.01	22.40
	8H	18.74	20.00	19.16	20.39	20.79	20.64	21.90	21.06	22.29	22.69
	12H	18.79	20.00	19.22	20.38	20.81	20.85	22.06	21.28	22.44	22.87
4H	2H	16.61	18.03	17.00	18.38	18.75	17.18	18.61	17.58	18.95	19.33
	3H	18.60	19.80	19.01	20.19	20.59	19.51	20.71	19.92	21.11	21.51
	4H	19.35	20.44	19.78	20.85	21.29	20.55	21.63	20.98	22.05	22.48
	6H	19.89	20.84	20.34	21.28	21.73	21.48	22.43	21.93	22.87	23.32
	8H	20.04	20.93	20.50	21.37	21.83	21.86	22.75	22.32	23.20	23.66
	12H	20.12	20.93	20.60	21.40	21.87	22.14	22.94	22.62	23.42	23.88
8H	4H	19.80	20.70	20.26	21.14	21.60	20.85	21.74	21.31	22.18	22.65
	6H	20.48	21.23	20.97	21.71	22.19	21.93	22.68	22.42	23.16	23.64
	8H	20.70	21.37	21.21	21.88	22.36	22.42	23.09	22.93	23.59	24.08
	12H	20.85	21.44	21.36	21.93	22.49	22.79	23.39	23.30	23.88	24.43
12H	4H	19.89	20.69	20.37	21.17	21.63	20.88	21.68	21.35	22.15	22.62
	6H	20.61	21.28	21.12	21.78	22.27	21.98	22.65	22.49	23.16	23.64
	8H	20.90	21.49	21.41	21.98	22.54	22.54	23.13	23.04	23.62	24.18