

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: P1587626

Luminaire Tested: 22CZSP-SB-33HE-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587626
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-L940-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 3000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

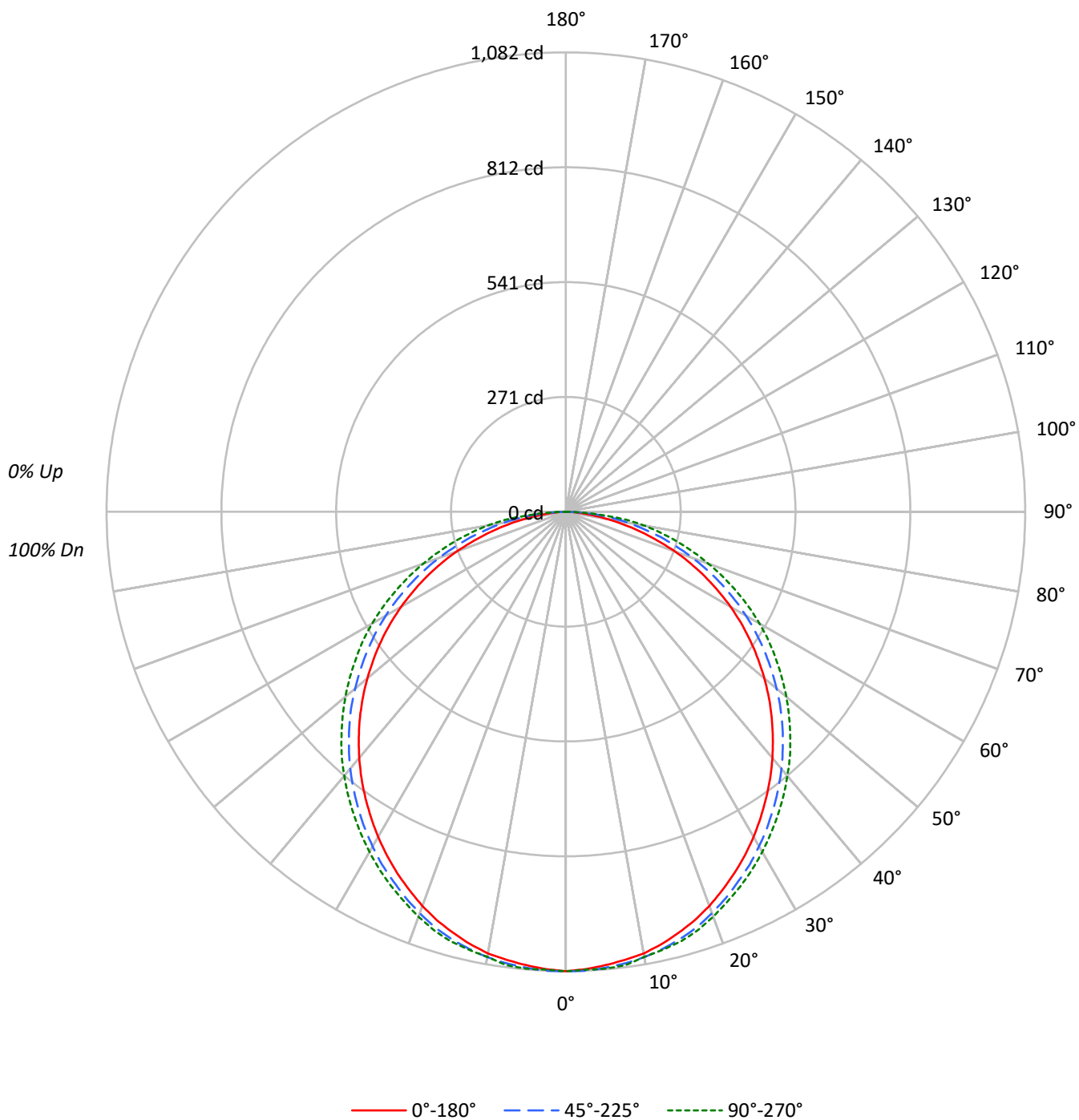
Lumens per Lamp: N/A
Luminaire Lumens: 3148.0 lumens
Efficiency: N/A
Efficacy: 145.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	3389	3389	3389
5°	3370	3389	3395
10°	3359	3387	3385
15°	3328	3376	3396
20°	3292	3353	3383
25°	3245	3320	3362
30°	3198	3291	3345
35°	3145	3259	3329
40°	3095	3230	3319
45°	3038	3197	3311
50°	2973	3157	3302
55°	2898	3117	3298
60°	2808	3071	3300
65°	2679	3005	3282
70°	2505	2914	3274
75°	2220	2802	3286
80°	1807	2662	3383
85°	1168	2457	2921

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3428 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	3.3
10°-20°	293.3	9.3
20°-30°	442.2	14.0
30°-40°	532.0	16.9
40°-50°	555.0	17.6
50°-60°	508.7	16.2
60°-70°	399.4	12.7
70°-80°	243.1	7.7
80°-90°	71.9	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°	837.8	26.6
0°-40°	1369.9	43.5
0°-60°	2433.5	77.3
0°-90°	3148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3148.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1082	1082	1082	1082	1082	
5°	1072	1079	1078	1077	1080	102
15°	1027	1037	1042	1043	1048	290
25°	939	952	961	967	973	433
35°	823	836	853	865	871	515
45°	686	700	722	739	748	529
55°	531	544	571	594	604	474
65°	362	375	406	433	443	358
75°	184	200	232	259	272	195
85°	32	46	68	76	81	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1082.2	1082.2	1082.2	1082.2	1082.2
2.5°	1078.1	1083.5	1082.2	1077.4	1079.5
5°	1072.0	1078.8	1078.1	1076.8	1080.1
7.5°	1064.6	1072.0	1072.7	1072.7	1076.8
10°	1056.4	1063.9	1065.2	1063.2	1064.6
12.5°	1042.9	1051.7	1054.4	1054.4	1056.4
15°	1026.6	1036.8	1041.5	1042.9	1047.6
17.5°	1009.0	1019.9	1026.0	1029.4	1033.4
20°	988.0	999.6	1006.3	1010.4	1015.1
22.5°	964.3	977.2	984.7	988.7	994.1
25°	939.3	952.2	961.0	967.0	973.1
27.5°	912.9	925.1	937.3	944.7	950.1
30°	884.4	897.3	910.2	919.6	925.1
32.5°	854.0	867.5	882.4	892.6	898.7
35°	822.8	835.7	852.6	864.8	870.9
37.5°	791.0	804.5	822.1	835.0	842.4
40°	757.1	771.3	790.3	804.5	812.0
42.5°	721.9	735.4	756.4	772.7	781.5
45°	686.0	700.2	721.9	738.8	747.6
47.5°	648.8	662.3	686.0	705.6	713.1
50°	610.2	623.0	648.1	669.1	677.9
52.5°	570.9	584.4	609.5	631.8	641.3
55°	530.9	544.5	570.9	593.9	604.1
57.5°	490.3	503.8	530.9	554.6	566.8
60°	448.3	461.9	490.3	514.7	526.9
62.5°	405.0	419.2	448.3	473.4	486.2
65°	361.6	375.2	405.6	432.7	442.9
67.5°	318.3	331.8	361.6	388.7	400.9
70°	273.6	289.2	318.3	346.7	357.6
72.5°	226.9	244.5	273.6	303.4	314.2
75°	183.5	200.5	231.6	259.4	271.6
77.5°	140.9	159.1	188.3	216.7	228.9
80°	100.2	117.8	147.6	174.7	187.6
82.5°	63.7	79.2	109.0	133.4	142.9
85°	32.5	46.0	68.4	76.5	81.3
87.5°	9.5	16.3	24.4	30.5	33.9
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	15.74	17.40	16.10	17.71	18.03	16.47	18.13	16.84	18.45	18.76
	3H	17.51	19.01	17.88	19.34	19.70	18.55	20.06	18.93	20.38	20.74
	4H	18.13	19.55	18.53	19.89	20.27	19.42	20.84	19.82	21.19	21.56
	6H	18.54	19.85	18.95	20.22	20.61	20.16	21.48	20.57	21.85	22.24
	8H	18.64	19.90	19.06	20.29	20.69	20.46	21.72	20.88	22.11	22.51
	12H	18.69	19.90	19.12	20.28	20.71	20.65	21.86	21.08	22.24	22.67
4H	2H	16.51	17.93	16.91	18.27	18.65	17.08	18.50	17.48	18.85	19.22
	3H	18.50	19.69	18.91	20.09	20.49	19.39	20.59	19.80	20.98	21.38
	4H	19.24	20.33	19.67	20.74	21.17	20.41	21.49	20.84	21.91	22.34
	6H	19.77	20.72	20.22	21.16	21.61	21.32	22.27	21.77	22.71	23.16
	8H	19.91	20.80	20.37	21.24	21.71	21.68	22.57	22.14	23.01	23.48
	12H	19.99	20.79	20.47	21.27	21.74	21.94	22.74	22.42	23.21	23.68
8H	4H	19.69	20.58	20.15	21.02	21.48	20.71	21.60	21.17	22.04	22.50
	6H	20.35	21.09	20.84	21.58	22.05	21.77	22.51	22.26	22.99	23.47
	8H	20.56	21.23	21.07	21.73	22.22	22.24	22.90	22.75	23.41	23.89
	12H	20.70	21.29	21.20	21.78	22.33	22.59	23.18	23.10	23.67	24.23
12H	4H	19.77	20.57	20.25	21.04	21.51	20.73	21.54	21.21	22.01	22.48
	6H	20.47	21.14	20.98	21.65	22.13	21.82	22.48	22.32	22.99	23.47
	8H	20.75	21.34	21.26	21.83	22.39	22.35	22.94	22.86	23.43	23.99