

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: P1585620

Luminaire Tested: 14CZSP-SB-32HE-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-32HE-L850-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 3000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

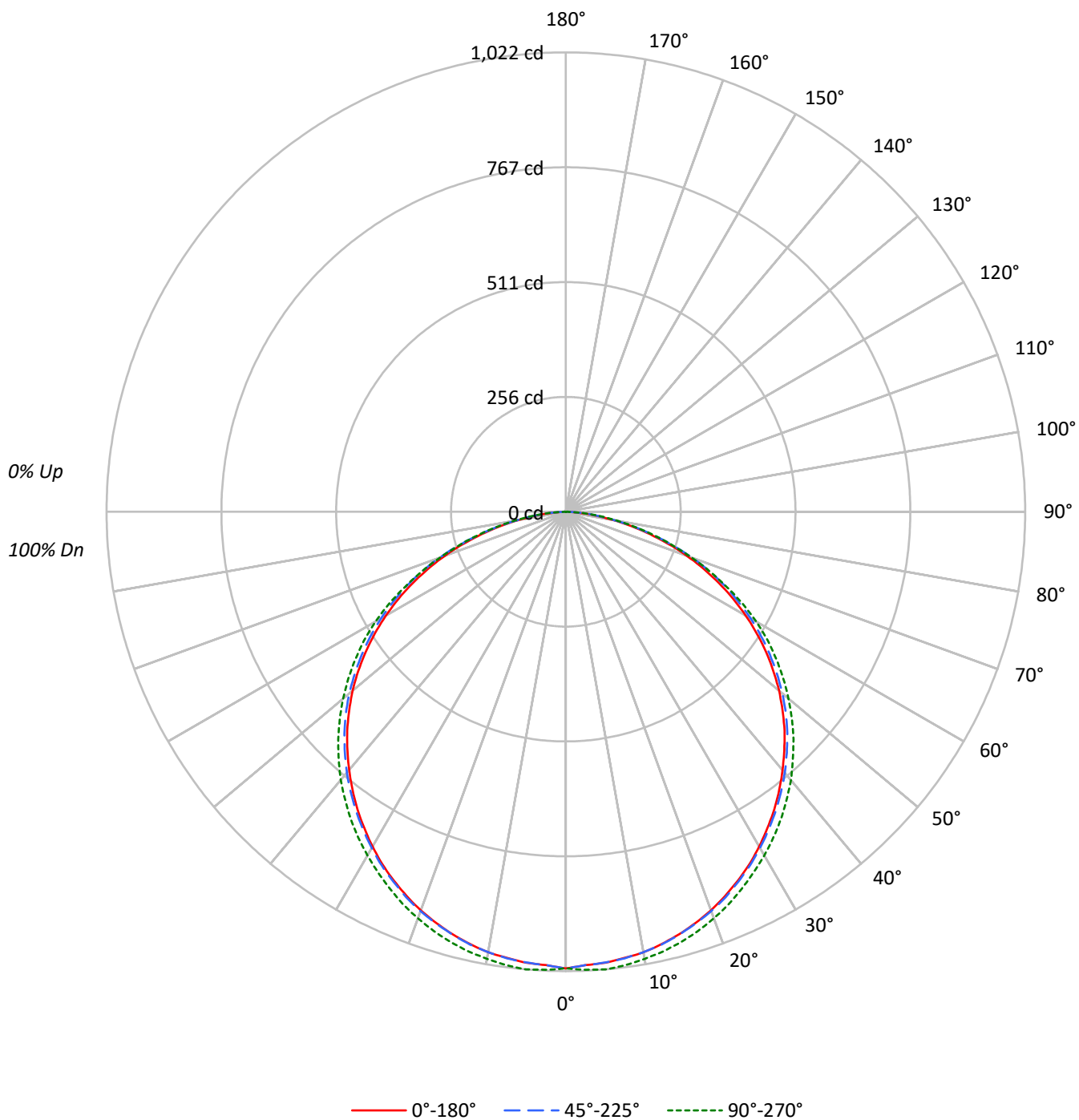
Lumens per Lamp: N/A
Luminaire Lumens: 2998.0 lumens
Efficiency: N/A
Efficacy: 144.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 20.7
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	99	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	40	68	55	46	40	53	46	40		52	45	40		50
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3423	3423	3423
5°	3407	3405	3457
10°	3405	3404	3455
15°	3395	3398	3457
20°	3384	3391	3452
25°	3367	3376	3441
30°	3347	3362	3435
35°	3325	3346	3433
40°	3299	3334	3427
45°	3279	3321	3412
50°	3246	3297	3391
55°	3196	3255	3357
60°	3118	3199	3298
65°	3001	3115	3148
70°	2823	2954	2935
75°	2534	2642	2660
80°	2094	2200	2317
85°	1403	1632	1720

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3412 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.3	3.2
10°-20°	276.8	9.2
20°-30°	421.5	14.1
30°-40°	512.9	17.1
40°-50°	540.7	18.0
50°-60°	498.0	16.6
60°-70°	384.7	12.8
70°-80°	215.2	7.2
80°-90°	51.9	1.7
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°	794.5	26.5
0°-40°	1307.4	43.6
0°-60°	2346.2	78.3
0°-90°	2998.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2998.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1016	1016	1016	1016	1016	
5°	1007	1021	1007	1008	1022	96
15°	973	986	974	980	991	275
25°	906	919	908	914	926	417
35°	808	820	814	824	835	506
45°	688	698	697	707	716	530
55°	544	553	554	566	572	486
65°	376	388	391	394	395	372
75°	195	207	203	202	204	206
85°	36	40	42	47	44	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1015.9	1015.9	1015.9	1015.9	1015.9
2.5°	1009.5	1024.2	1009.5	1011.8	1020.0
5°	1007.2	1021.4	1006.7	1008.1	1021.9
7.5°	1001.2	1015.9	1002.1	1004.0	1017.3
10°	995.3	1008.6	994.8	997.1	1009.9
12.5°	985.2	998.9	986.1	988.8	1001.7
15°	973.2	986.5	974.1	979.6	991.1
17.5°	959.4	972.3	960.4	966.8	977.8
20°	943.8	956.2	945.7	950.3	962.7
22.5°	925.5	938.3	928.2	932.4	945.7
25°	905.7	918.6	908.0	914.0	925.5
27.5°	884.2	896.6	887.4	894.7	904.8
30°	860.3	872.2	864.0	872.7	882.8
32.5°	834.6	847.4	839.2	849.3	859.4
35°	808.4	820.4	813.5	823.6	834.6
37.5°	780.0	791.4	786.4	796.9	807.0
40°	750.1	763.0	757.9	768.9	779.0
42.5°	719.4	731.8	727.6	739.1	747.8
45°	688.1	697.8	696.9	707.4	716.1
47.5°	653.7	665.6	663.8	674.4	682.2
50°	619.3	628.9	628.9	639.0	646.8
52.5°	582.1	591.7	591.7	603.7	610.1
55°	544.0	553.2	554.1	565.6	571.5
57.5°	503.6	513.2	515.1	526.5	532.1
60°	462.7	471.9	474.7	486.2	489.4
62.5°	420.0	431.1	432.4	441.6	443.5
65°	376.4	387.5	390.7	394.3	394.8
67.5°	331.9	343.4	346.6	346.6	346.6
70°	286.5	297.0	299.8	297.9	297.9
72.5°	240.6	252.0	250.6	248.8	249.7
75°	194.6	206.6	202.9	202.4	204.3
77.5°	150.6	162.1	156.1	159.8	160.2
80°	107.9	116.6	113.4	118.9	119.4
82.5°	69.3	74.8	75.7	80.3	79.0
85°	36.3	39.9	42.2	47.3	44.5
87.5°	11.5	15.1	13.8	16.1	12.4
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	16.31	17.97	16.67	18.28	18.59	16.53	18.18	16.89	18.50	18.81
	3H	18.13	19.63	18.51	19.96	20.32	18.33	19.82	18.70	20.15	20.51
	4H	18.78	20.19	19.18	20.54	20.91	18.96	20.38	19.36	20.72	21.10
	6H	19.21	20.52	19.62	20.88	21.27	19.42	20.73	19.83	21.09	21.48
	8H	19.32	20.57	19.74	20.96	21.35	19.55	20.80	19.97	21.19	21.59
	12H	19.37	20.57	19.80	20.95	21.38	19.63	20.82	20.05	21.21	21.63
4H	2H	16.99	18.40	17.39	18.75	19.12	17.16	18.57	17.56	18.92	19.29
	3H	19.03	20.22	19.44	20.61	21.01	19.17	20.36	19.58	20.75	21.15
	4H	19.81	20.88	20.24	21.30	21.73	19.93	21.00	20.36	21.42	21.85
	6H	20.36	21.30	20.81	21.74	22.19	20.51	21.44	20.96	21.88	22.34
	8H	20.51	21.38	20.97	21.83	22.29	20.68	21.56	21.14	22.00	22.46
	12H	20.59	21.38	21.07	21.85	22.32	20.79	21.58	21.27	22.06	22.53
8H	4H	20.12	21.00	20.58	21.44	21.90	20.23	21.10	20.68	21.54	22.01
	6H	20.78	21.51	21.27	21.99	22.47	20.91	21.64	21.40	22.12	22.60
	8H	20.98	21.64	21.49	22.14	22.63	21.15	21.80	21.65	22.31	22.79
	12H	21.12	21.69	21.62	22.18	22.74	21.32	21.90	21.83	22.39	22.95
12H	4H	20.15	20.94	20.63	21.41	21.88	20.25	21.04	20.73	21.52	21.99
	6H	20.82	21.48	21.33	21.98	22.47	20.95	21.60	21.46	22.11	22.59
	8H	21.08	21.66	21.58	22.15	22.71	21.24	21.82	21.74	22.31	22.87

END OF REPORT