

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: P1585618

Luminaire Tested: 14CZSP-SB-32HE-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585618
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-L845-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 3000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

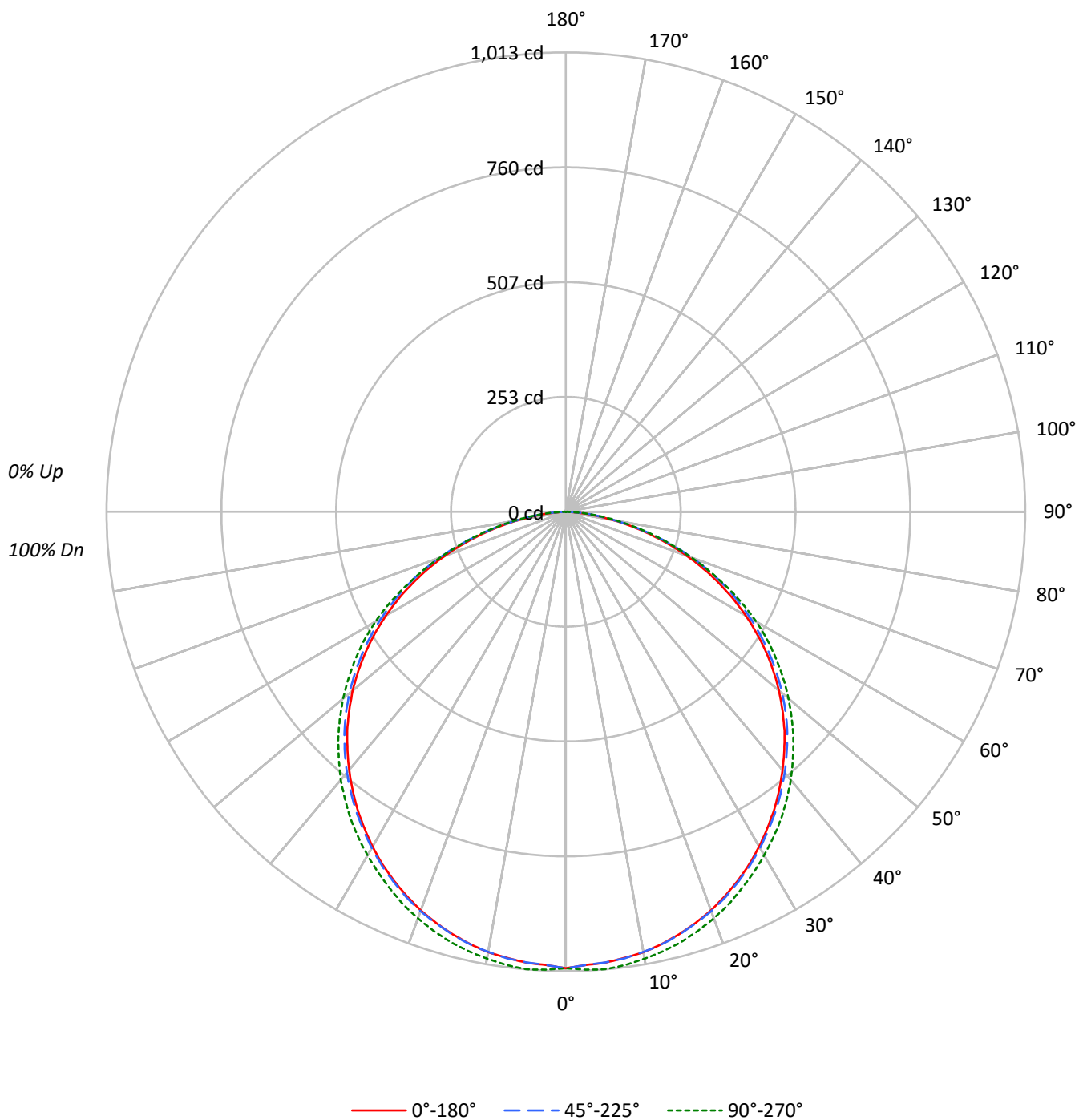
Lumens per Lamp: N/A
Luminaire Lumens: 2971.0 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3392	3392	3392
5°	3376	3375	3425
10°	3375	3373	3424
15°	3365	3368	3426
20°	3354	3361	3421
25°	3337	3346	3410
30°	3317	3331	3404
35°	3295	3316	3402
40°	3270	3304	3396
45°	3249	3291	3382
50°	3217	3267	3360
55°	3167	3226	3327
60°	3091	3170	3268
65°	2974	3086	3119
70°	2797	2927	2909
75°	2511	2618	2635
80°	2074	2181	2296
85°	1388	1620	1705

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3382 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	3.2
10°-20°	274.3	9.2
20°-30°	417.7	14.1
30°-40°	508.3	17.1
40°-50°	535.9	18.0
50°-60°	493.6	16.6
60°-70°	381.2	12.8
70°-80°	213.3	7.2
80°-90°	51.4	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°	787.4	26.5
0°-40°	1295.7	43.6
0°-60°	2325.1	78.3
0°-90°	2971.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2971.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1007	1007	1007	1007	1007	
5°	998	1012	998	999	1013	95
15°	964	978	965	971	982	272
25°	898	910	900	906	917	414
35°	801	813	806	816	827	501
45°	682	692	691	701	710	525
55°	539	548	549	560	566	481
65°	373	384	387	391	391	369
75°	193	205	201	201	202	205
85°	36	40	42	47	44	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1006.8	1006.8	1006.8	1006.8	1006.8
2.5°	1000.4	1015.0	1000.4	1002.7	1010.9
5°	998.1	1012.2	997.7	999.0	1012.7
7.5°	992.2	1006.8	993.1	994.9	1008.1
10°	986.3	999.5	985.8	988.1	1000.8
12.5°	976.3	989.9	977.2	979.9	992.7
15°	964.5	977.6	965.4	970.8	982.2
17.5°	950.8	963.5	951.7	958.1	969.0
20°	935.3	947.6	937.2	941.7	954.0
22.5°	917.1	929.9	919.9	924.0	937.2
25°	897.6	910.3	899.9	905.8	917.1
27.5°	876.2	888.5	879.4	886.7	896.7
30°	852.5	864.4	856.2	864.8	874.8
32.5°	827.1	839.8	831.6	841.6	851.6
35°	801.1	813.0	806.1	816.1	827.1
37.5°	772.9	784.3	779.3	789.8	799.8
40°	743.4	756.1	751.1	762.0	772.0
42.5°	712.9	725.2	721.1	732.4	741.1
45°	681.9	691.5	690.6	701.0	709.7
47.5°	647.8	659.7	657.8	668.3	676.0
50°	613.7	623.3	623.3	633.3	641.0
52.5°	576.9	586.4	586.4	598.2	604.6
55°	539.1	548.2	549.1	560.5	566.4
57.5°	499.1	508.6	510.4	521.8	527.3
60°	458.6	467.7	470.4	481.8	485.0
62.5°	416.3	427.2	428.5	437.6	439.5
65°	373.0	384.0	387.1	390.8	391.2
67.5°	328.9	340.3	343.5	343.5	343.5
70°	283.9	294.3	297.1	295.3	295.3
72.5°	238.4	249.8	248.4	246.6	247.5
75°	192.9	204.7	201.1	200.6	202.4
77.5°	149.2	160.6	154.7	158.3	158.8
80°	106.9	115.6	112.4	117.8	118.3
82.5°	68.7	74.2	75.1	79.6	78.2
85°	35.9	39.6	41.9	46.9	44.1
87.5°	11.4	15.0	13.6	15.9	12.3
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	16.28	17.93	16.64	18.25	18.56	16.50	18.15	16.86	18.46	18.78
	3H	18.10	19.60	18.48	19.92	20.28	18.30	19.79	18.67	20.12	20.48
	4H	18.75	20.16	19.14	20.51	20.88	18.93	20.35	19.33	20.69	21.07
	6H	19.17	20.48	19.58	20.85	21.24	19.39	20.70	19.80	21.06	21.45
	8H	19.28	20.53	19.71	20.92	21.32	19.52	20.77	19.94	21.16	21.56
	12H	19.34	20.54	19.77	20.92	21.35	19.59	20.79	20.02	21.17	21.60
4H	2H	16.96	18.37	17.36	18.72	19.09	17.13	18.54	17.53	18.89	19.26
	3H	19.00	20.18	19.41	20.58	20.98	19.14	20.33	19.55	20.72	21.12
	4H	19.78	20.85	20.21	21.26	21.70	19.90	20.97	20.33	21.38	21.82
	6H	20.33	21.27	20.78	21.71	22.16	20.47	21.41	20.93	21.85	22.31
	8H	20.47	21.35	20.93	21.79	22.26	20.65	21.53	21.11	21.97	22.43
	12H	20.56	21.35	21.04	21.82	22.29	20.76	21.55	21.24	22.03	22.49
8H	4H	20.09	20.96	20.55	21.41	21.87	20.19	21.07	20.65	21.51	21.98
	6H	20.75	21.47	21.24	21.96	22.44	20.88	21.61	21.37	22.09	22.57
	8H	20.95	21.60	21.46	22.11	22.60	21.11	21.77	21.62	22.27	22.76
	12H	21.09	21.66	21.59	22.15	22.71	21.29	21.87	21.80	22.36	22.92
12H	4H	20.12	20.91	20.60	21.38	21.85	20.22	21.01	20.70	21.49	21.95
	6H	20.79	21.45	21.30	21.95	22.44	20.92	21.57	21.43	22.08	22.56
	8H	21.05	21.62	21.55	22.11	22.67	21.21	21.79	21.71	22.28	22.83