

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: P1585629

Luminaire Tested: 14CZSP-SB-32HE-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-32HE-L945
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 3000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

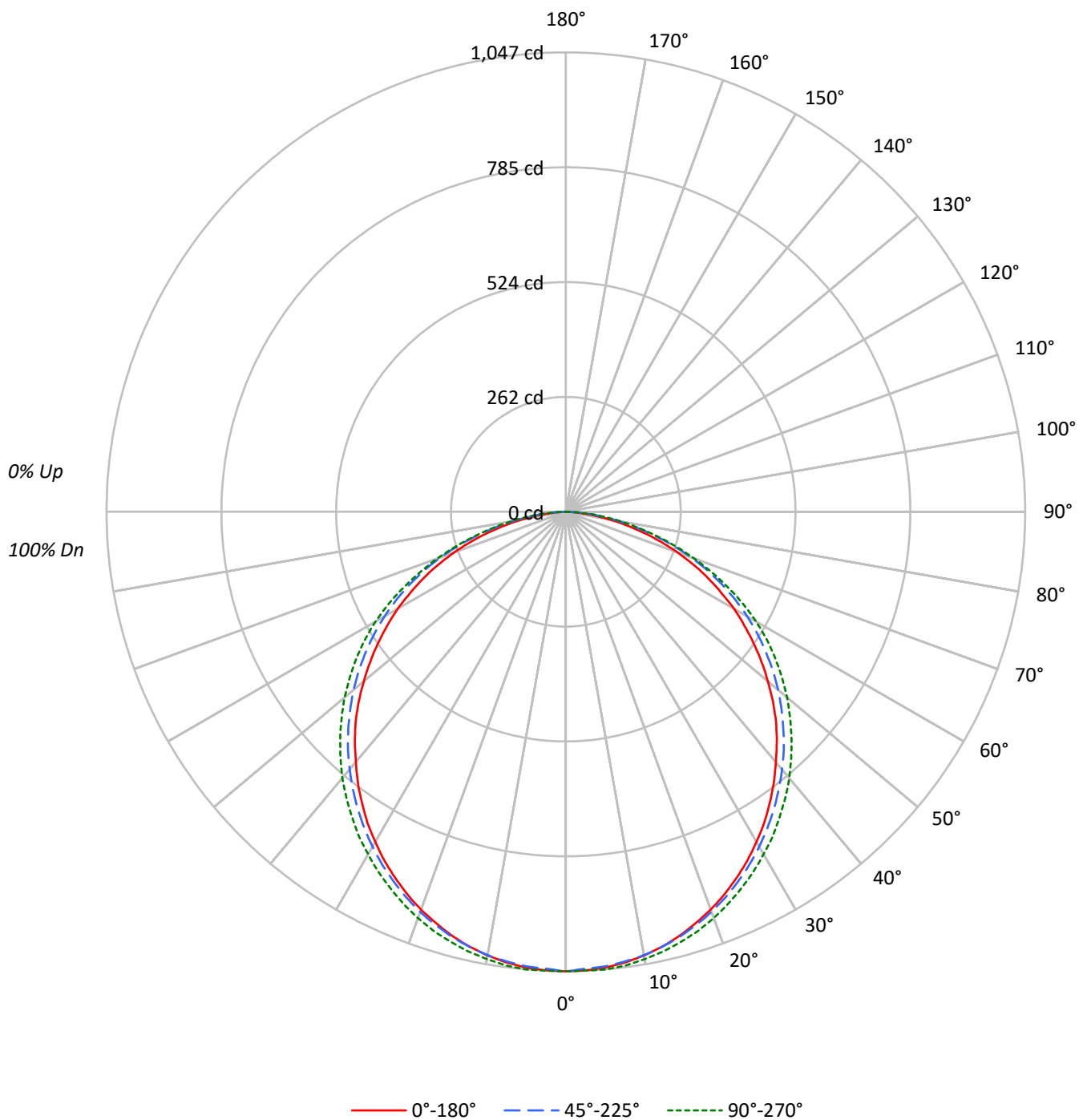
Lumens per Lamp: N/A
Luminaire Lumens: 3026.0 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			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	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3529	3529	3529
5°	3527	3518	3541
10°	3514	3511	3542
15°	3491	3499	3540
20°	3460	3481	3534
25°	3423	3455	3520
30°	3380	3429	3507
35°	3333	3401	3494
40°	3275	3372	3486
45°	3228	3342	3467
50°	3151	3311	3450
55°	3070	3267	3424
60°	2987	3219	3378
65°	2854	3135	3250
70°	2662	2993	3066
75°	2372	2713	2793
80°	1937	2352	2470
85°	1280	1871	2007

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3467 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	3.3
10°-20°	284.2	9.4
20°-30°	430.2	14.2
30°-40°	519.3	17.2
40°-50°	542.3	17.9
50°-60°	496.1	16.4
60°-70°	383.5	12.7
70°-80°	217.1	7.2
80°-90°	53.9	1.8
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°	813.6	26.9
0°-40°	1332.9	44.0
0°-60°	2371.4	78.4
0°-90°	3026.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3026.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1047	1047	1047	1047	1047	
5°	1043	1050	1040	1041	1047	99
15°	1001	1010	1003	1008	1015	282
25°	921	932	929	938	947	424
35°	810	822	827	841	850	507
45°	677	690	701	719	728	522
55°	523	538	556	574	583	467
65°	358	373	393	405	408	353
75°	182	198	208	214	214	193
85°	33	38	48	51	52	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1047.4	1047.4	1047.4	1047.4	1047.4
2.5°	1046.1	1053.5	1042.2	1044.4	1046.6
5°	1042.6	1050.0	1040.0	1040.9	1047.0
7.5°	1036.1	1044.4	1033.9	1035.7	1043.1
10°	1026.9	1035.2	1026.1	1027.8	1035.2
12.5°	1015.2	1023.5	1015.6	1018.2	1026.5
15°	1000.8	1009.5	1003.0	1007.8	1014.7
17.5°	983.4	994.2	987.3	994.7	1001.7
20°	965.0	975.9	970.7	977.2	985.5
22.5°	944.1	955.0	951.1	958.1	967.2
25°	920.6	932.4	929.3	938.0	946.7
27.5°	896.2	907.5	906.6	916.2	925.4
30°	868.7	880.9	881.4	892.7	901.4
32.5°	841.3	852.2	854.8	867.4	877.4
35°	810.3	821.6	826.9	840.8	849.5
37.5°	778.9	791.6	797.2	812.5	821.6
40°	744.5	758.9	766.7	782.8	792.4
42.5°	711.8	724.9	735.3	751.5	760.2
45°	677.4	690.4	701.3	719.2	727.5
47.5°	640.3	654.7	666.5	683.9	693.1
50°	601.1	616.8	631.6	648.6	658.2
52.5°	562.3	577.5	594.5	611.1	620.7
55°	522.6	538.3	556.2	573.6	582.8
57.5°	482.5	498.2	517.8	533.5	543.1
60°	443.3	457.7	477.7	493.4	501.3
62.5°	398.8	415.4	435.9	451.6	455.9
65°	357.9	372.7	393.2	404.9	407.6
67.5°	314.3	329.1	349.6	356.1	360.0
70°	270.2	285.9	303.8	308.2	311.2
72.5°	225.8	241.9	255.9	260.2	262.8
75°	182.2	197.9	208.4	213.6	214.5
77.5°	139.9	154.3	163.9	170.0	170.0
80°	99.8	110.7	121.2	127.7	127.3
82.5°	63.6	71.9	82.8	87.6	90.7
85°	33.1	38.4	48.4	50.6	51.9
87.5°	10.5	13.5	17.4	14.4	13.9
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	16.06	17.71	16.43	18.03	18.34	16.60	18.25	16.97	18.57	18.88
	3H	17.83	19.33	18.21	19.65	20.01	18.46	19.96	18.84	20.28	20.64
	4H	18.46	19.87	18.86	20.21	20.59	19.13	20.54	19.53	20.89	21.26
	6H	18.86	20.17	19.27	20.53	20.92	19.62	20.93	20.03	21.29	21.68
	8H	18.96	20.21	19.39	20.60	21.00	19.78	21.02	20.20	21.41	21.81
	12H	19.01	20.21	19.44	20.59	21.02	19.87	21.07	20.30	21.45	21.88
4H	2H	16.80	18.21	17.20	18.56	18.93	17.22	18.63	17.62	18.98	19.35
	3H	18.79	19.97	19.20	20.37	20.77	19.30	20.48	19.71	20.88	21.28
	4H	19.54	20.61	19.97	21.02	21.46	20.10	21.17	20.53	21.58	22.02
	6H	20.06	21.00	20.51	21.44	21.89	20.72	21.65	21.17	22.09	22.55
	8H	20.20	21.07	20.66	21.51	21.98	20.92	21.79	21.38	22.24	22.70
	12H	20.27	21.06	20.75	21.53	22.00	21.06	21.85	21.54	22.32	22.79
8H	4H	19.90	20.77	20.36	21.21	21.68	20.39	21.27	20.85	21.71	22.17
	6H	20.53	21.26	21.02	21.74	22.22	21.12	21.85	21.62	22.34	22.81
	8H	20.72	21.38	21.23	21.88	22.37	21.40	22.05	21.91	22.56	23.04
	12H	20.85	21.43	21.35	21.92	22.47	21.60	22.18	22.11	22.67	23.23
12H	4H	19.94	20.73	20.42	21.20	21.67	20.42	21.20	20.90	21.68	22.15
	6H	20.59	21.25	21.10	21.75	22.24	21.17	21.82	21.67	22.33	22.81
	8H	20.84	21.42	21.35	21.91	22.47	21.49	22.07	22.00	22.56	23.12