

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: P1585619

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585619
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-L845
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 3000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

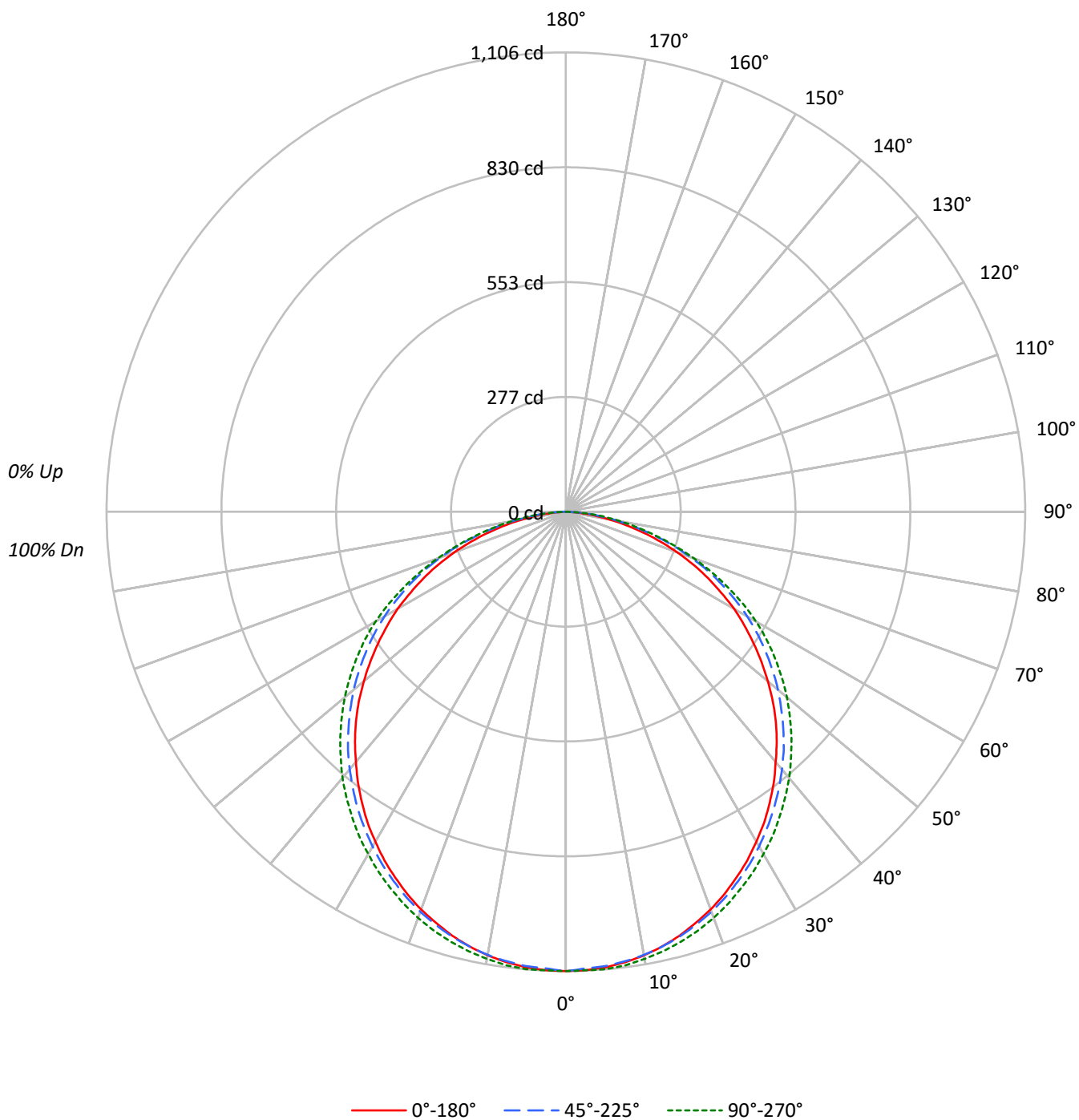
Lumens per Lamp: N/A
Luminaire Lumens: 3195.0 lumens
Efficiency: N/A
Efficacy: 154.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3726	3726	3726
5°	3724	3714	3739
10°	3710	3707	3740
15°	3686	3694	3738
20°	3654	3675	3731
25°	3614	3648	3716
30°	3569	3621	3703
35°	3520	3591	3690
40°	3458	3561	3680
45°	3408	3529	3660
50°	3327	3496	3643
55°	3242	3450	3615
60°	3155	3399	3567
65°	3012	3310	3431
70°	2811	3161	3237
75°	2505	2864	2948
80°	2045	2482	2608
85°	1353	1976	2119

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3660 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.7	3.3
10°-20°	300.0	9.4
20°-30°	454.3	14.2
30°-40°	548.3	17.2
40°-50°	572.6	17.9
50°-60°	523.8	16.4
60°-70°	405.0	12.7
70°-80°	229.3	7.2
80°-90°	56.9	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°	859.0	26.9
0°-40°	1407.4	44.0
0°-60°	2503.8	78.4
0°-90°	3195.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3195.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1106	1106	1106	1106	1106	
5°	1101	1109	1098	1099	1106	105
15°	1057	1066	1059	1064	1071	298
25°	972	984	981	990	1000	448
35°	856	868	873	888	897	535
45°	715	729	740	759	768	551
55°	552	568	587	606	615	493
65°	378	394	415	428	430	373
75°	192	209	220	226	226	204
85°	35	40	51	53	55	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1105.9	1105.9	1105.9	1105.9	1105.9
2.5°	1104.5	1112.4	1100.4	1102.7	1105.0
5°	1100.9	1108.7	1098.1	1099.0	1105.5
7.5°	1094.0	1102.7	1091.7	1093.5	1101.3
10°	1084.3	1093.0	1083.4	1085.2	1093.0
12.5°	1071.9	1080.6	1072.3	1075.1	1083.8
15°	1056.7	1065.9	1059.0	1064.0	1071.4
17.5°	1038.3	1049.8	1042.4	1050.2	1057.6
20°	1018.9	1030.4	1024.9	1031.8	1040.6
22.5°	996.9	1008.4	1004.2	1011.6	1021.2
25°	972.0	984.4	981.2	990.4	999.6
27.5°	946.2	958.2	957.3	967.4	977.1
30°	917.2	930.1	930.6	942.5	951.7
32.5°	888.2	899.7	902.5	915.9	926.4
35°	855.6	867.5	873.1	887.8	897.0
37.5°	822.4	835.8	841.8	857.9	867.5
40°	786.1	801.3	809.5	826.6	836.7
42.5°	751.6	765.4	776.4	793.4	802.6
45°	715.2	729.0	740.5	759.4	768.1
47.5°	676.1	691.3	703.7	722.1	731.8
50°	634.7	651.2	666.9	684.8	694.9
52.5°	593.7	609.8	627.7	645.2	655.4
55°	551.8	568.4	587.2	605.7	615.3
57.5°	509.5	526.0	546.7	563.3	573.4
60°	468.1	483.2	504.4	521.0	529.3
62.5°	421.1	438.6	460.2	476.8	481.4
65°	377.8	393.5	415.1	427.6	430.3
67.5°	331.8	347.5	369.1	376.0	380.1
70°	285.3	301.9	320.8	325.4	328.6
72.5°	238.4	255.4	270.2	274.8	277.5
75°	192.4	208.9	220.0	225.5	226.4
77.5°	147.7	162.9	173.0	179.5	179.5
80°	105.4	116.9	127.9	134.8	134.4
82.5°	67.2	75.9	87.4	92.5	95.7
85°	35.0	40.5	51.1	53.4	54.8
87.5°	11.0	14.3	18.4	15.2	14.7
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	16.25	17.90	16.61	18.21	18.53	16.79	18.44	17.16	18.76	19.07
	3H	18.02	19.52	18.40	19.84	20.20	18.65	20.15	19.03	20.47	20.83
	4H	18.65	20.05	19.04	20.40	20.78	19.32	20.73	19.72	21.08	21.45
	6H	19.05	20.36	19.46	20.72	21.11	19.81	21.11	20.22	21.48	21.87
	8H	19.15	20.40	19.58	20.79	21.19	19.97	21.21	20.39	21.60	22.00
	12H	19.20	20.40	19.63	20.78	21.21	20.06	21.26	20.49	21.64	22.07
4H	2H	16.99	18.40	17.39	18.74	19.12	17.41	18.82	17.81	19.17	19.54
	3H	18.98	20.16	19.39	20.56	20.96	19.49	20.67	19.90	21.07	21.47
	4H	19.73	20.80	20.16	21.21	21.65	20.29	21.36	20.72	21.77	22.21
	6H	20.25	21.18	20.70	21.62	22.08	20.91	21.84	21.36	22.28	22.73
	8H	20.39	21.26	20.84	21.70	22.17	21.11	21.98	21.57	22.43	22.89
	12H	20.46	21.25	20.94	21.72	22.19	21.25	22.03	21.73	22.51	22.98
8H	4H	20.09	20.96	20.54	21.40	21.87	20.58	21.46	21.04	21.90	22.36
	6H	20.72	21.45	21.21	21.93	22.41	21.31	22.04	21.81	22.53	23.00
	8H	20.91	21.56	21.42	22.07	22.56	21.59	22.24	22.09	22.74	23.23
	12H	21.04	21.61	21.54	22.10	22.66	21.79	22.37	22.30	22.86	23.42
12H	4H	20.13	20.91	20.61	21.39	21.86	20.60	21.39	21.08	21.87	22.33
	6H	20.78	21.44	21.29	21.94	22.43	21.35	22.01	21.86	22.51	23.00
	8H	21.03	21.61	21.54	22.10	22.66	21.68	22.26	22.19	22.75	23.31