

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: P1584516

Luminaire Tested: 14CZSP-A-32HE-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-A-32HE-L840-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 3000 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

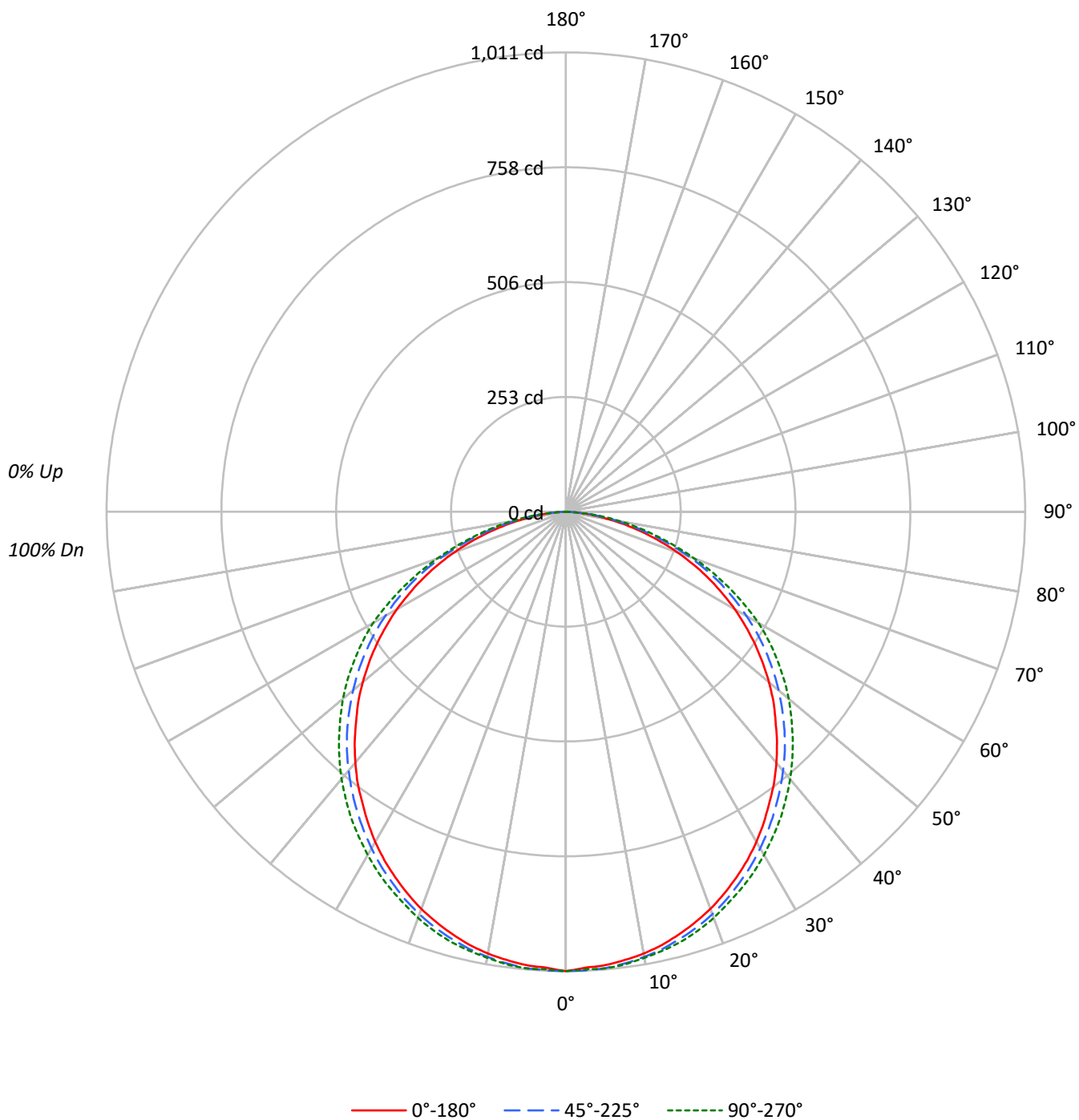
Lumens per Lamp: N/A
Luminaire Lumens: 2923.0 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	80	75		82	77	73		79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69	65	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	41	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	59	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°	3407	3407	3407
5°	3388	3410	3413
10°	3378	3403	3411
15°	3359	3394	3418
20°	3336	3380	3411
25°	3302	3354	3401
30°	3264	3328	3393
35°	3212	3299	3387
40°	3170	3272	3378
45°	3110	3243	3364
50°	3058	3205	3358
55°	2985	3159	3336
60°	2894	3097	3302
65°	2765	3012	3166
70°	2577	2844	2971
75°	2302	2566	2711
80°	1886	2162	2371
85°	1264	1581	1763

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3364 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	3.3
10°-20°	274.5	9.4
20°-30°	415.7	14.2
30°-40°	502.0	17.2
40°-50°	524.6	17.9
50°-60°	480.7	16.4
60°-70°	371.1	12.7
70°-80°	208.7	7.1
80°-90°	49.9	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°	786.0	26.9
0°-40°	1287.9	44.1
0°-60°	2293.3	78.5
0°-90°	2923.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2923.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1011	1011	1011	1011	1011	
5°	1002	1009	1008	1009	1009	95
15°	963	971	973	977	980	272
25°	888	896	902	907	915	409
35°	781	791	802	813	824	489
45°	653	666	681	694	706	504
55°	508	522	538	555	568	454
65°	347	362	378	393	397	343
75°	177	193	197	205	208	187
85°	33	37	41	45	46	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1011.1	1011.1	1011.1	1011.1	1011.1
2.5°	1004.2	1011.9	1010.2	1012.8	1008.1
5°	1001.6	1008.9	1008.1	1008.9	1008.9
7.5°	995.1	1002.9	1002.5	1003.8	1004.6
10°	987.4	994.7	994.7	996.0	996.9
12.5°	976.6	984.4	985.3	987.4	989.1
15°	962.9	970.6	972.8	976.6	979.7
17.5°	947.4	955.6	959.0	962.9	966.8
20°	930.2	937.5	942.7	945.7	951.3
22.5°	910.0	918.1	923.7	926.7	932.8
25°	888.0	895.8	902.2	906.9	914.7
27.5°	864.8	872.5	880.3	885.9	894.9
30°	839.0	847.1	855.3	863.9	872.1
32.5°	811.0	820.5	829.5	839.0	848.0
35°	780.9	790.8	802.0	812.7	823.5
37.5°	752.9	762.0	773.6	785.2	795.9
40°	720.7	730.6	743.9	756.8	768.0
42.5°	688.0	698.7	713.3	725.8	737.9
45°	652.7	665.6	680.6	694.4	706.0
47.5°	620.0	631.2	646.2	661.3	673.3
50°	583.4	595.9	611.4	627.3	640.6
52.5°	546.4	559.3	575.2	591.2	604.9
55°	508.1	521.5	537.8	554.6	567.9
57.5°	469.0	483.2	499.9	516.7	530.1
60°	429.4	443.6	459.5	478.0	490.0
62.5°	388.1	404.0	419.1	436.3	443.6
65°	346.8	361.8	377.8	392.8	397.1
67.5°	304.6	320.1	334.3	344.2	349.8
70°	261.6	278.4	288.7	298.2	301.6
72.5°	219.0	235.8	241.8	250.8	254.3
75°	176.8	193.2	197.1	205.2	208.2
77.5°	136.0	151.0	152.3	161.8	164.4
80°	97.2	109.3	111.4	120.5	122.2
82.5°	62.4	71.0	74.0	81.7	84.3
85°	32.7	37.4	40.9	44.7	45.6
87.5°	10.8	13.3	11.2	11.6	10.8
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	15.97	17.62	16.34	17.94	18.25	16.51	18.16	16.88	18.48	18.79
	3H	17.75	19.24	18.12	19.57	19.93	18.37	19.86	18.74	20.19	20.55
	4H	18.37	19.78	18.77	20.13	20.50	19.04	20.44	19.43	20.79	21.17
	6H	18.78	20.09	19.19	20.45	20.84	19.51	20.82	19.92	21.18	21.57
	8H	18.89	20.13	19.31	20.52	20.92	19.66	20.91	20.08	21.29	21.69
	12H	18.94	20.13	19.36	20.51	20.94	19.74	20.94	20.17	21.32	21.75
4H	2H	16.70	18.10	17.09	18.45	18.83	17.12	18.52	17.52	18.87	19.25
	3H	18.69	19.87	19.10	20.27	20.67	19.19	20.37	19.60	20.77	21.17
	4H	19.45	20.52	19.88	20.93	21.36	19.99	21.05	20.42	21.47	21.90
	6H	19.98	20.91	20.43	21.35	21.80	20.59	21.52	21.04	21.96	22.42
	8H	20.12	20.99	20.57	21.43	21.90	20.78	21.65	21.24	22.10	22.56
	12H	20.19	20.98	20.67	21.45	21.92	20.90	21.69	21.38	22.16	22.63
8H	4H	19.78	20.66	20.24	21.10	21.56	20.26	21.14	20.72	21.58	22.04
	6H	20.43	21.15	20.92	21.64	22.11	20.97	21.70	21.47	22.19	22.66
	8H	20.63	21.28	21.13	21.78	22.27	21.23	21.88	21.74	22.39	22.87
	12H	20.75	21.33	21.26	21.82	22.38	21.41	21.99	21.92	22.48	23.04
12H	4H	19.82	20.61	20.30	21.08	21.55	20.29	21.07	20.76	21.55	22.01
	6H	20.48	21.13	20.99	21.64	22.12	21.01	21.66	21.52	22.17	22.65
	8H	20.73	21.31	21.24	21.80	22.36	21.32	21.89	21.82	22.38	22.94