

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: P1584213

Luminaire Tested: 14CZSP-32HE-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2602-698-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-32HE-L830
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 3000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

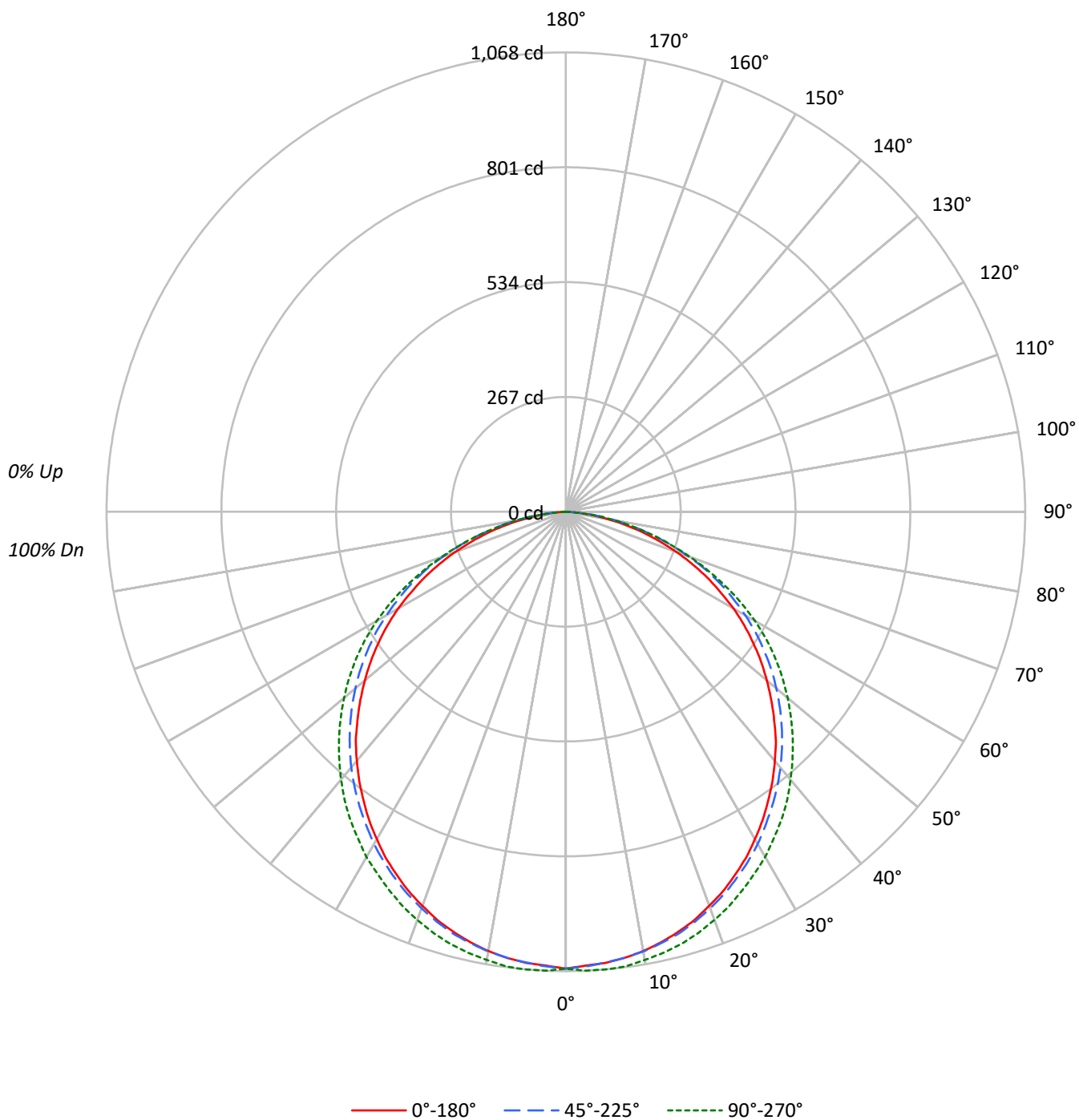
Lumens per Lamp: N/A
Luminaire Lumens: 3059.1 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1584213

CATALOG NUMBER: 14CZSP-32HE-L830

Luminous Intensity Polar Plot



TEST NUMBER: P1584213

CATALOG NUMBER: 14CZSP-32HE-L830

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		94	91	88		90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62	56	52	50
5	76	63	54	47	73	61	53	47	59	52	46		57	51	46		55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32		43	36	32		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29		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°	3578	3578	3578
5°	3562	3558	3612
10°	3548	3552	3620
15°	3527	3541	3628
20°	3496	3518	3622
25°	3461	3495	3610
30°	3420	3471	3607
35°	3373	3439	3595
40°	3325	3413	3576
45°	3264	3383	3555
50°	3198	3350	3528
55°	3125	3307	3495
60°	3033	3248	3423
65°	2894	3165	3269
70°	2699	2985	3034
75°	2409	2695	2721
80°	1960	2270	2251
85°	1276	1585	1237

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3555 cd/sqm

TEST NUMBER: P1584213

CATALOG NUMBER: 14CZSP-32HE-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	3.3
10°-20°	288.2	9.4
20°-30°	436.5	14.3
30°-40°	527.3	17.2
40°-50°	550.8	18.0
50°-60°	504.4	16.5
60°-70°	387.6	12.7
70°-80°	215.8	7.1
80°-90°	47.8	1.6
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°	825.3	27.0
0°-40°	1352.7	44.2
0°-60°	2407.9	78.7
0°-90°	3059.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3059.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1062	1062	1062	1062	1062	
5°	1053	1064	1052	1058	1068	100
15°	1011	1021	1015	1025	1040	285
25°	931	942	940	954	971	429
35°	820	832	836	856	874	513
45°	685	700	710	731	746	529
55°	532	549	563	583	595	475
65°	363	382	397	405	410	359
75°	185	204	207	207	209	196
85°	33	39	41	34	32	43
90°	0	0	0	0	0	

TEST NUMBER: P1584213

CATALOG NUMBER: 14CZSP-32HE-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1062	1062	1062	1062	1062
2.5°	1056	1066	1058	1061	1068
5°	1053	1064	1052	1058	1068
7.5°	1046	1056	1046	1053	1066
10°	1037	1048	1038	1045	1058
12.5°	1025	1034	1027	1037	1050
15°	1011	1021	1015	1025	1040
17.5°	995	1004	999	1012	1026
20°	975	985	981	994	1010
22.5°	955	965	962	975	992
25°	931	942	940	954	971
27.5°	907	918	917	933	949
30°	879	890	892	909	927
32.5°	851	863	864	883	900
35°	820	832	836	856	874
37.5°	789	801	807	826	845
40°	756	769	776	796	813
42.5°	723	736	744	764	780
45°	685	700	710	731	746
47.5°	648	664	675	695	710
50°	610	627	639	659	673
52.5°	572	590	602	621	635
55°	532	549	563	583	595
57.5°	492	509	524	542	553
60°	450	468	482	500	508
62.5°	406	425	439	453	460
65°	363	382	397	405	410
67.5°	319	338	352	356	359
70°	274	293	303	305	308
72.5°	229	248	256	256	257
75°	185	204	207	207	209
77.5°	142	159	161	161	161
80°	101	114	117	117	116
82.5°	64	73	78	74	72
85°	33	39	41	34	32
87.5°	10	12	10	6	5
90°	0	0	0	0	0

TEST NUMBER: P1584213

CATALOG NUMBER: 14CZSP-32HE-L830

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	16.17	17.82	16.54	18.14	18.45	16.68	18.33	17.04	18.64	18.96
	3H	17.95	19.44	18.32	19.76	20.12	18.48	19.97	18.85	20.29	20.65
	4H	18.57	19.97	18.97	20.32	20.69	19.11	20.51	19.51	20.86	21.24
	6H	18.97	20.27	19.38	20.64	21.03	19.53	20.83	19.94	21.20	21.59
	8H	19.07	20.31	19.49	20.70	21.10	19.63	20.88	20.06	21.27	21.67
	12H	19.12	20.31	19.54	20.69	21.12	19.67	20.87	20.10	21.25	21.68
4H	2H	16.90	18.30	17.29	18.65	19.02	17.29	18.69	17.69	19.04	19.42
	3H	18.89	20.07	19.30	20.46	20.86	19.30	20.48	19.71	20.88	21.28
	4H	19.65	20.71	20.08	21.12	21.56	20.05	21.12	20.49	21.53	21.97
	6H	20.17	21.10	20.62	21.54	21.99	20.59	21.52	21.05	21.96	22.42
	8H	20.30	21.17	20.76	21.61	22.08	20.73	21.60	21.19	22.05	22.51
	12H	20.37	21.16	20.85	21.63	22.10	20.80	21.58	21.28	22.06	22.53
8H	4H	19.98	20.85	20.44	21.29	21.75	20.34	21.21	20.80	21.65	22.12
	6H	20.61	21.33	21.10	21.82	22.30	20.98	21.70	21.47	22.19	22.67
	8H	20.80	21.45	21.31	21.96	22.44	21.18	21.82	21.69	22.33	22.82
	12H	20.93	21.50	21.43	21.99	22.55	21.28	21.85	21.79	22.34	22.90
12H	4H	20.01	20.79	20.49	21.27	21.74	20.37	21.15	20.84	21.62	22.09
	6H	20.66	21.31	21.17	21.82	22.30	21.02	21.67	21.53	22.18	22.66
	8H	20.91	21.48	21.41	21.97	22.53	21.26	21.84	21.77	22.33	22.89