

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: P1584521

Luminaire Tested: 14CZSP-A-32HE-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584521
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-A-32HE-L850
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 3000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

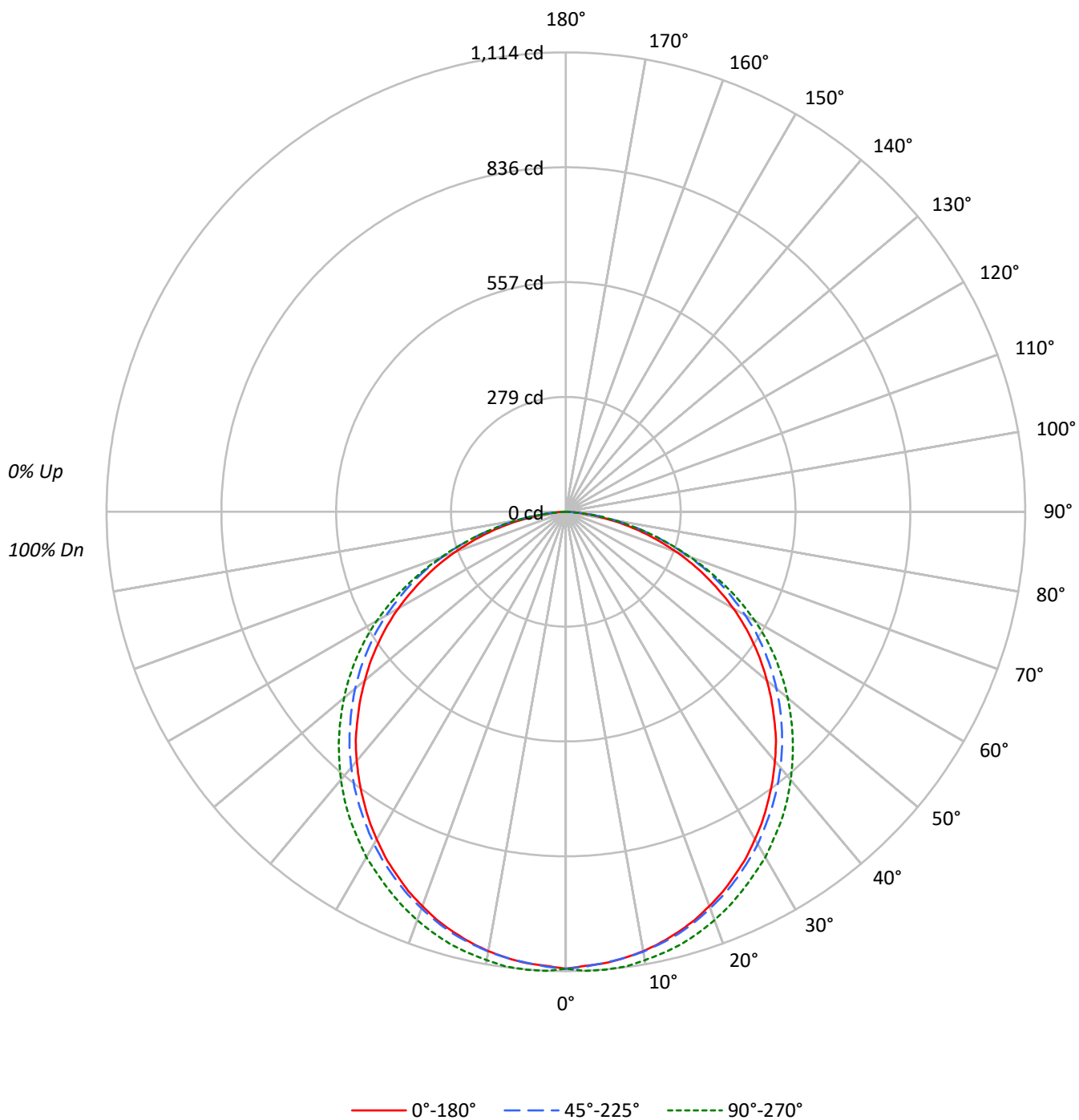
Lumens per Lamp: N/A
Luminaire Lumens: 3192.0 lumens
Efficiency: N/A
Efficacy: 154.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1584521

CATALOG NUMBER: 14CZSP-A-32HE-L850

Luminous Intensity Polar Plot



TEST NUMBER: P1584521

CATALOG NUMBER: 14CZSP-A-32HE-L850

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	100	96	106	102	98	94	97	94	91		94	91	88		90
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	73	61	53	47	59	52	46		57	51	46		55
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46
8	60	47	38	32	59	46	38	32	44	37	32		43	36	32		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3734	3734	3734
5°	3716	3713	3769
10°	3702	3706	3777
15°	3680	3695	3786
20°	3648	3670	3779
25°	3612	3647	3767
30°	3569	3622	3764
35°	3520	3588	3752
40°	3470	3562	3731
45°	3406	3530	3709
50°	3337	3495	3681
55°	3261	3451	3647
60°	3164	3389	3572
65°	3020	3302	3411
70°	2817	3115	3166
75°	2513	2812	2839
80°	2045	2369	2348
85°	1330	1655	1291

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3709 cd/sqm

TEST NUMBER: P1584521

CATALOG NUMBER: 14CZSP-A-32HE-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	3.3
10°-20°	300.7	9.4
20°-30°	455.5	14.3
30°-40°	550.2	17.2
40°-50°	574.8	18.0
50°-60°	526.3	16.5
60°-70°	404.4	12.7
70°-80°	225.2	7.1
80°-90°	49.9	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°	861.2	27.0
0°-40°	1411.4	44.2
0°-60°	2512.5	78.7
0°-90°	3192.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3192.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1108	1108	1108	1108	1108	
5°	1099	1110	1098	1104	1114	104
15°	1055	1065	1059	1070	1085	298
25°	971	983	981	995	1013	448
35°	856	868	872	893	912	536
45°	715	730	741	763	778	552
55°	555	573	588	608	621	496
65°	379	399	414	423	428	374
75°	193	213	216	216	218	204
85°	34	41	43	36	33	45
90°	0	0	0	0	0	

TEST NUMBER: P1584521

CATALOG NUMBER: 14CZSP-A-32HE-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1108.1	1108.1	1108.1	1108.1	1108.1
2.5°	1101.9	1112.3	1104.0	1107.1	1114.4
5°	1098.7	1110.2	1097.7	1104.0	1114.4
7.5°	1091.4	1101.9	1091.4	1098.7	1112.3
10°	1082.0	1093.5	1083.1	1090.4	1104.0
12.5°	1069.5	1078.9	1071.6	1082.0	1095.6
15°	1054.9	1065.4	1059.1	1069.5	1085.2
17.5°	1038.2	1047.6	1042.4	1056.0	1070.6
20°	1017.4	1027.8	1023.6	1037.2	1053.9
22.5°	996.5	1006.9	1003.8	1017.4	1035.1
25°	971.4	982.9	980.8	995.4	1013.2
27.5°	946.4	957.9	956.8	973.5	990.2
30°	917.2	928.7	930.8	948.5	967.3
32.5°	888.0	900.5	901.5	921.4	939.1
35°	855.6	868.1	872.3	893.2	912.0
37.5°	823.3	835.8	842.1	861.9	881.7
40°	788.8	802.4	809.7	830.6	848.3
42.5°	754.4	768.0	776.3	797.2	813.9
45°	714.8	730.4	740.8	762.8	778.4
47.5°	676.2	692.8	704.3	725.2	740.8
50°	636.5	654.2	666.8	687.6	702.2
52.5°	596.8	615.6	628.2	648.0	662.6
55°	555.1	572.8	587.5	608.3	620.8
57.5°	513.4	531.1	546.8	565.5	577.0
60°	469.5	488.3	502.9	521.7	530.1
62.5°	423.6	443.5	458.1	472.7	480.0
65°	378.8	398.6	414.2	422.6	427.8
67.5°	332.9	352.7	367.3	371.5	374.6
70°	285.9	305.7	316.2	318.2	321.4
72.5°	238.9	258.8	267.1	267.1	268.2
75°	193.0	212.9	216.0	216.0	218.1
77.5°	148.2	165.9	168.0	168.0	168.0
80°	105.4	119.0	122.1	122.1	121.0
82.5°	66.8	76.2	81.4	77.2	75.1
85°	34.4	40.7	42.8	35.5	33.4
87.5°	10.4	12.5	10.4	6.3	5.2
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584521

CATALOG NUMBER: 14CZSP-A-32HE-L850

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	16.32	17.97	16.69	18.28	18.60	16.83	18.47	17.19	18.79	19.10
	3H	18.09	19.58	18.47	19.91	20.27	18.63	20.12	19.00	20.44	20.80
	4H	18.72	20.12	19.11	20.47	20.84	19.26	20.66	19.65	21.01	21.38
	6H	19.12	20.42	19.53	20.78	21.18	19.68	20.98	20.09	21.34	21.73
	8H	19.22	20.46	19.64	20.85	21.25	19.78	21.03	20.21	21.41	21.81
	12H	19.26	20.45	19.69	20.84	21.26	19.82	21.01	20.25	21.39	21.82
4H	2H	17.04	18.45	17.44	18.79	19.17	17.44	18.84	17.84	19.19	19.56
	3H	19.04	20.21	19.44	20.61	21.01	19.45	20.63	19.86	21.02	21.42
	4H	19.79	20.86	20.22	21.27	21.71	20.20	21.27	20.63	21.68	22.12
	6H	20.31	21.24	20.77	21.69	22.14	20.74	21.67	21.19	22.11	22.57
	8H	20.45	21.32	20.91	21.76	22.22	20.88	21.75	21.34	22.19	22.66
	12H	20.52	21.30	21.00	21.78	22.25	20.95	21.73	21.43	22.20	22.67
8H	4H	20.13	21.00	20.59	21.44	21.90	20.49	21.36	20.95	21.80	22.26
	6H	20.76	21.48	21.25	21.97	22.44	21.13	21.85	21.62	22.34	22.81
	8H	20.95	21.60	21.46	22.10	22.59	21.32	21.97	21.83	22.48	22.96
	12H	21.07	21.65	21.58	22.14	22.70	21.43	22.00	21.94	22.49	23.05
12H	4H	20.16	20.94	20.64	21.41	21.88	20.51	21.29	20.99	21.77	22.24
	6H	20.81	21.46	21.32	21.96	22.45	21.17	21.82	21.68	22.32	22.81
	8H	21.05	21.62	21.56	22.12	22.68	21.41	21.98	21.92	22.47	23.03