

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: P1584515

Luminaire Tested: 14CZSP-A-32HE-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584515
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-L835
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 3000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

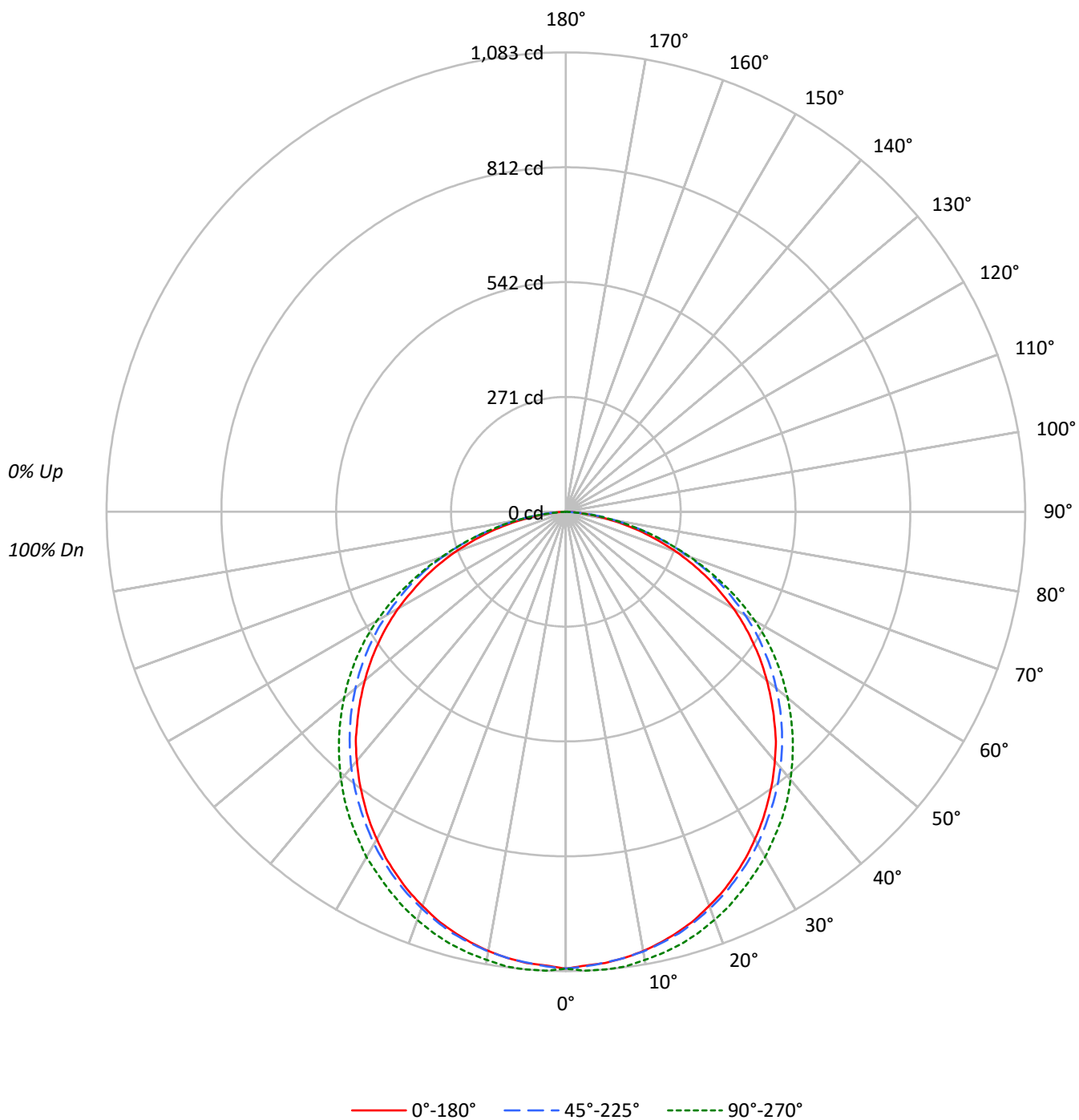
Lumens per Lamp: N/A
Luminaire Lumens: 3102.0 lumens
Efficiency: N/A
Efficacy: 149.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1584515

CATALOG NUMBER: 14CZSP-A-32HE-L835

Luminous Intensity Polar Plot



TEST NUMBER: P1584515

CATALOG NUMBER: 14CZSP-A-32HE-L835

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°	3629	3629	3629
5°	3612	3608	3663
10°	3598	3602	3671
15°	3576	3590	3679
20°	3545	3567	3673
25°	3510	3544	3661
30°	3468	3519	3657
35°	3420	3487	3646
40°	3372	3461	3626
45°	3310	3431	3605
50°	3243	3397	3577
55°	3169	3354	3544
60°	3075	3294	3471
65°	2935	3210	3314
70°	2737	3027	3077
75°	2442	2733	2759
80°	1987	2301	2282
85°	1295	1608	1253

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3605 cd/sqm

TEST NUMBER: P1584515

CATALOG NUMBER: 14CZSP-A-32HE-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	3.3
10°-20°	292.2	9.4
20°-30°	442.7	14.3
30°-40°	534.7	17.2
40°-50°	558.6	18.0
50°-60°	511.5	16.5
60°-70°	393.0	12.7
70°-80°	218.8	7.1
80°-90°	48.5	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°	836.9	27.0
0°-40°	1371.6	44.2
0°-60°	2441.7	78.7
0°-90°	3102.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3102.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1077	1077	1077	1077	1077	
5°	1068	1079	1067	1073	1083	101
15°	1025	1035	1029	1039	1055	289
25°	944	955	953	967	985	435
35°	832	844	848	868	886	520
45°	695	710	720	741	756	536
55°	540	557	571	591	603	482
65°	368	387	403	411	416	364
75°	188	207	210	210	212	199
85°	34	40	42	34	32	43
90°	0	0	0	0	0	

TEST NUMBER: P1584515

CATALOG NUMBER: 14CZSP-A-32HE-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1076.9	1076.9	1076.9	1076.9	1076.9
2.5°	1070.8	1080.9	1072.8	1075.9	1083.0
5°	1067.8	1078.9	1066.8	1072.8	1083.0
7.5°	1060.7	1070.8	1060.7	1067.8	1080.9
10°	1051.5	1062.7	1052.6	1059.7	1072.8
12.5°	1039.4	1048.5	1041.4	1051.5	1064.7
15°	1025.2	1035.3	1029.2	1039.4	1054.6
17.5°	1009.0	1018.1	1013.0	1026.2	1040.4
20°	988.7	998.8	994.8	1007.9	1024.2
22.5°	968.4	978.5	975.5	988.7	1005.9
25°	944.1	955.2	953.2	967.4	984.6
27.5°	919.7	930.9	929.9	946.1	962.3
30°	891.3	902.5	904.5	921.7	940.0
32.5°	862.9	875.1	876.1	895.4	912.6
35°	831.5	843.7	847.7	868.0	886.3
37.5°	800.1	812.2	818.3	837.6	856.8
40°	766.6	779.8	786.9	807.2	824.4
42.5°	733.1	746.3	754.4	774.7	790.9
45°	694.6	709.8	720.0	741.3	756.5
47.5°	657.1	673.3	684.5	704.7	720.0
50°	618.6	635.8	648.0	668.2	682.4
52.5°	580.0	598.3	610.4	629.7	643.9
55°	539.5	556.7	570.9	591.2	603.3
57.5°	498.9	516.1	531.3	549.6	560.8
60°	456.3	474.6	488.8	507.0	515.1
62.5°	411.7	431.0	445.2	459.4	466.5
65°	368.1	387.4	402.6	410.7	415.7
67.5°	323.5	342.7	356.9	361.0	364.0
70°	277.8	297.1	307.2	309.3	312.3
72.5°	232.2	251.5	259.6	259.6	260.6
75°	187.6	206.9	209.9	209.9	211.9
77.5°	144.0	161.2	163.3	163.3	163.3
80°	102.4	115.6	118.6	118.6	117.6
82.5°	64.9	74.0	79.1	75.0	73.0
85°	33.5	39.5	41.6	34.5	32.4
87.5°	10.1	12.2	10.1	6.1	5.1
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584515

CATALOG NUMBER: 14CZSP-A-32HE-L835

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	16.22	17.87	16.59	18.18	18.50	16.73	18.38	17.09	18.69	19.00
	3H	17.99	19.48	18.37	19.81	20.17	18.53	20.02	18.90	20.34	20.70
	4H	18.62	20.02	19.01	20.37	20.74	19.16	20.56	19.55	20.91	21.28
	6H	19.02	20.32	19.43	20.69	21.08	19.58	20.88	19.99	21.24	21.63
	8H	19.12	20.36	19.54	20.75	21.15	19.68	20.93	20.11	21.32	21.71
	12H	19.16	20.35	19.59	20.74	21.16	19.72	20.91	20.15	21.30	21.72
4H	2H	16.94	18.35	17.34	18.69	19.07	17.34	18.74	17.74	19.09	19.47
	3H	18.94	20.11	19.35	20.51	20.91	19.35	20.53	19.76	20.93	21.33
	4H	19.69	20.76	20.12	21.17	21.61	20.10	21.17	20.53	21.58	22.02
	6H	20.22	21.15	20.67	21.59	22.04	20.64	21.57	21.10	22.01	22.47
	8H	20.35	21.22	20.81	21.66	22.13	20.78	21.65	21.24	22.09	22.56
	12H	20.42	21.20	20.90	21.68	22.15	20.85	21.63	21.33	22.11	22.57
8H	4H	20.03	20.90	20.49	21.34	21.80	20.39	21.26	20.85	21.70	22.17
	6H	20.66	21.38	21.15	21.87	22.34	21.03	21.75	21.52	22.24	22.71
	8H	20.85	21.50	21.36	22.01	22.49	21.23	21.87	21.73	22.38	22.86
	12H	20.97	21.55	21.48	22.04	22.60	21.33	21.90	21.84	22.39	22.95
12H	4H	20.06	20.84	20.54	21.31	21.78	20.41	21.20	20.89	21.67	22.14
	6H	20.71	21.36	21.22	21.86	22.35	21.07	21.72	21.58	22.22	22.71
	8H	20.95	21.52	21.46	22.02	22.58	21.31	21.88	21.82	22.37	22.93