

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: P1584525

Luminaire Tested: 14CZSP-A-32HE-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584525
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-L935
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 3000 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

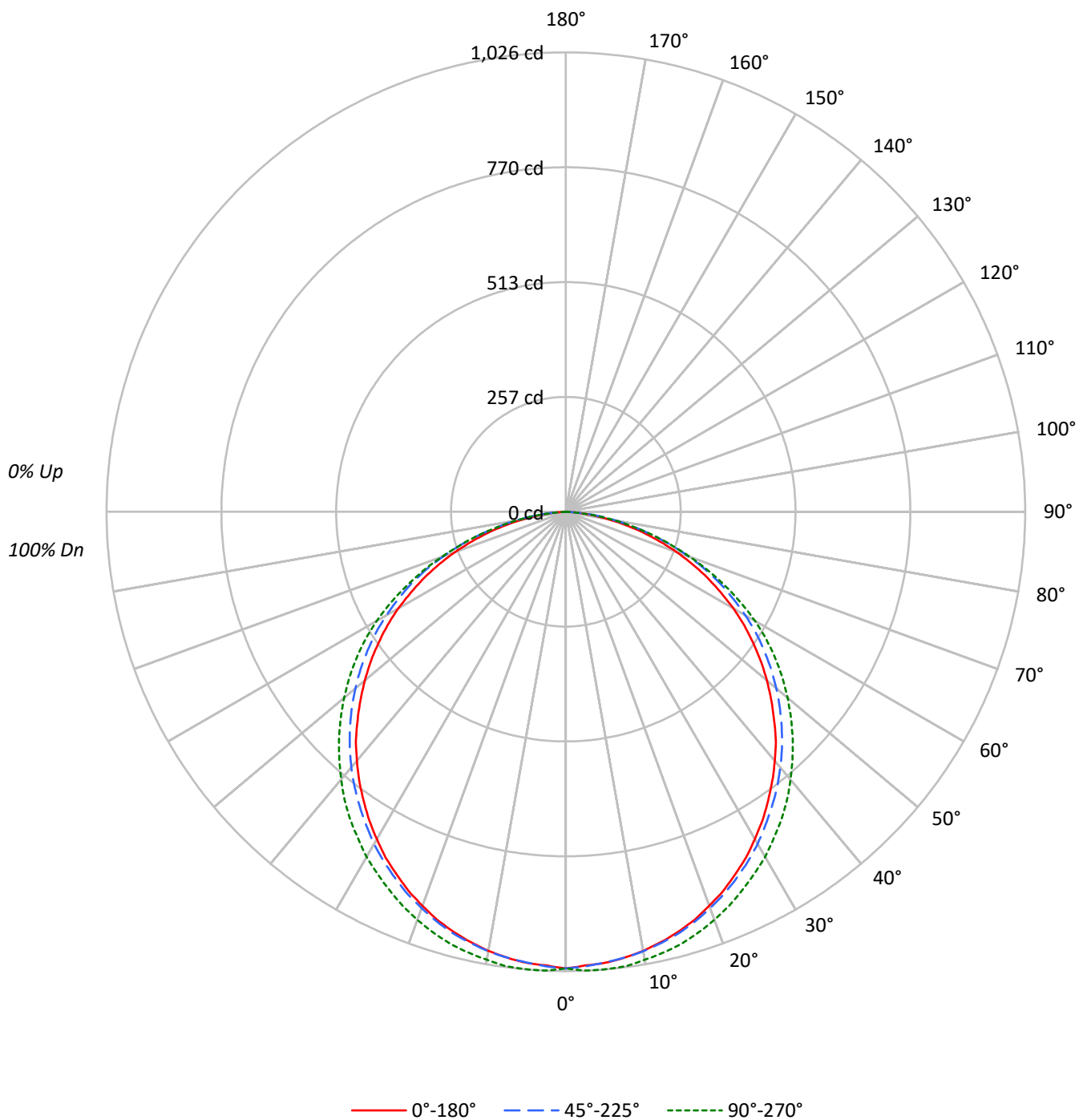
Lumens per Lamp: N/A
Luminaire Lumens: 2938.0 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

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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
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°	3437	3437	3437
5°	3421	3418	3469
10°	3408	3411	3477
15°	3387	3401	3484
20°	3358	3379	3478
25°	3324	3357	3467
30°	3285	3333	3464
35°	3239	3303	3453
40°	3194	3278	3434
45°	3135	3249	3414
50°	3071	3217	3389
55°	3001	3176	3357
60°	2913	3120	3288
65°	2779	3040	3140
70°	2593	2867	2914
75°	2313	2588	2613
80°	1882	2181	2162
85°	1226	1523	1187

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3414 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	3.3
10°-20°	276.8	9.4
20°-30°	419.3	14.3
30°-40°	506.4	17.2
40°-50°	529.0	18.0
50°-60°	484.5	16.5
60°-70°	372.2	12.7
70°-80°	207.3	7.1
80°-90°	45.9	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°	792.7	27.0
0°-40°	1299.1	44.2
0°-60°	2312.6	78.7
0°-90°	2938.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2938.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1020	1020	1020	1020	1020	
5°	1011	1022	1010	1016	1026	96
15°	971	981	975	984	999	274
25°	894	905	903	916	933	412
35°	788	799	803	822	839	493
45°	658	672	682	702	716	508
55°	511	527	541	560	571	457
65°	349	367	381	389	394	345
75°	178	196	199	199	201	188
85°	32	38	39	33	31	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1020.0	1020.0	1020.0	1020.0	1020.0
2.5°	1014.2	1023.8	1016.1	1019.0	1025.7
5°	1011.3	1021.9	1010.4	1016.1	1025.7
7.5°	1004.6	1014.2	1004.6	1011.3	1023.8
10°	995.9	1006.5	996.9	1003.6	1016.1
12.5°	984.4	993.1	986.3	995.9	1008.4
15°	971.0	980.6	974.8	984.4	998.8
17.5°	955.6	964.3	959.5	971.9	985.4
20°	936.4	946.0	942.2	954.6	970.0
22.5°	917.2	926.8	923.9	936.4	952.7
25°	894.1	904.7	902.8	916.2	932.6
27.5°	871.1	881.7	880.7	896.1	911.4
30°	844.2	854.8	856.7	873.0	890.3
32.5°	817.3	828.8	829.8	848.0	864.4
35°	787.5	799.1	802.9	822.1	839.4
37.5°	757.8	769.3	775.1	793.3	811.5
40°	726.1	738.6	745.3	764.5	780.8
42.5°	694.4	706.9	714.5	733.8	749.1
45°	657.9	672.3	681.9	702.1	716.5
47.5°	622.3	637.7	648.3	667.5	681.9
50°	585.9	602.2	613.7	632.9	646.4
52.5°	549.4	566.6	578.2	596.4	609.9
55°	510.9	527.3	540.7	559.9	571.4
57.5°	472.5	488.8	503.3	520.5	531.1
60°	432.2	449.5	462.9	480.2	487.9
62.5°	389.9	408.2	421.6	435.1	441.8
65°	348.6	366.9	381.3	389.0	393.8
67.5°	306.4	324.6	338.1	341.9	344.8
70°	263.2	281.4	291.0	292.9	295.8
72.5°	219.9	238.2	245.9	245.9	246.8
75°	177.7	195.9	198.8	198.8	200.7
77.5°	136.4	152.7	154.6	154.6	154.6
80°	97.0	109.5	112.4	112.4	111.4
82.5°	61.5	70.1	74.9	71.1	69.1
85°	31.7	37.5	39.4	32.7	30.7
87.5°	9.6	11.5	9.6	5.8	4.8
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	16.03	17.68	16.40	17.99	18.31	16.54	18.19	16.90	18.50	18.81
	3H	17.80	19.29	18.18	19.62	19.98	18.34	19.83	18.71	20.15	20.51
	4H	18.43	19.83	18.83	20.18	20.55	18.97	20.37	19.37	20.72	21.09
	6H	18.83	20.13	19.24	20.50	20.89	19.39	20.69	19.80	21.05	21.45
	8H	18.93	20.17	19.35	20.56	20.96	19.49	20.74	19.92	21.13	21.52
	12H	18.98	20.17	19.40	20.55	20.98	19.53	20.72	19.96	21.11	21.53
4H	2H	16.75	18.16	17.15	18.51	18.88	17.15	18.55	17.55	18.90	19.28
	3H	18.75	19.92	19.16	20.32	20.72	19.16	20.34	19.57	20.74	21.14
	4H	19.51	20.57	19.94	20.98	21.42	19.91	20.98	20.35	21.39	21.83
	6H	20.03	20.96	20.48	21.40	21.85	20.45	21.38	20.91	21.82	22.28
	8H	20.16	21.03	20.62	21.47	21.94	20.59	21.46	21.05	21.91	22.37
	12H	20.23	21.01	20.71	21.49	21.96	20.66	21.44	21.14	21.92	22.39
8H	4H	19.84	20.71	20.30	21.15	21.61	20.20	21.07	20.66	21.51	21.98
	6H	20.47	21.19	20.96	21.68	22.16	20.84	21.56	21.33	22.05	22.53
	8H	20.66	21.31	21.17	21.82	22.30	21.04	21.68	21.54	22.19	22.67
	12H	20.79	21.36	21.29	21.85	22.41	21.14	21.71	21.65	22.20	22.76
12H	4H	19.87	20.65	20.35	21.13	21.59	20.22	21.01	20.70	21.48	21.95
	6H	20.52	21.17	21.03	21.68	22.16	20.88	21.53	21.39	22.04	22.52
	8H	20.76	21.34	21.27	21.83	22.39	21.12	21.70	21.63	22.19	22.75