

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: P1584522

Luminaire Tested: 14CZSP-A-32HE-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584522
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-L930-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 3000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

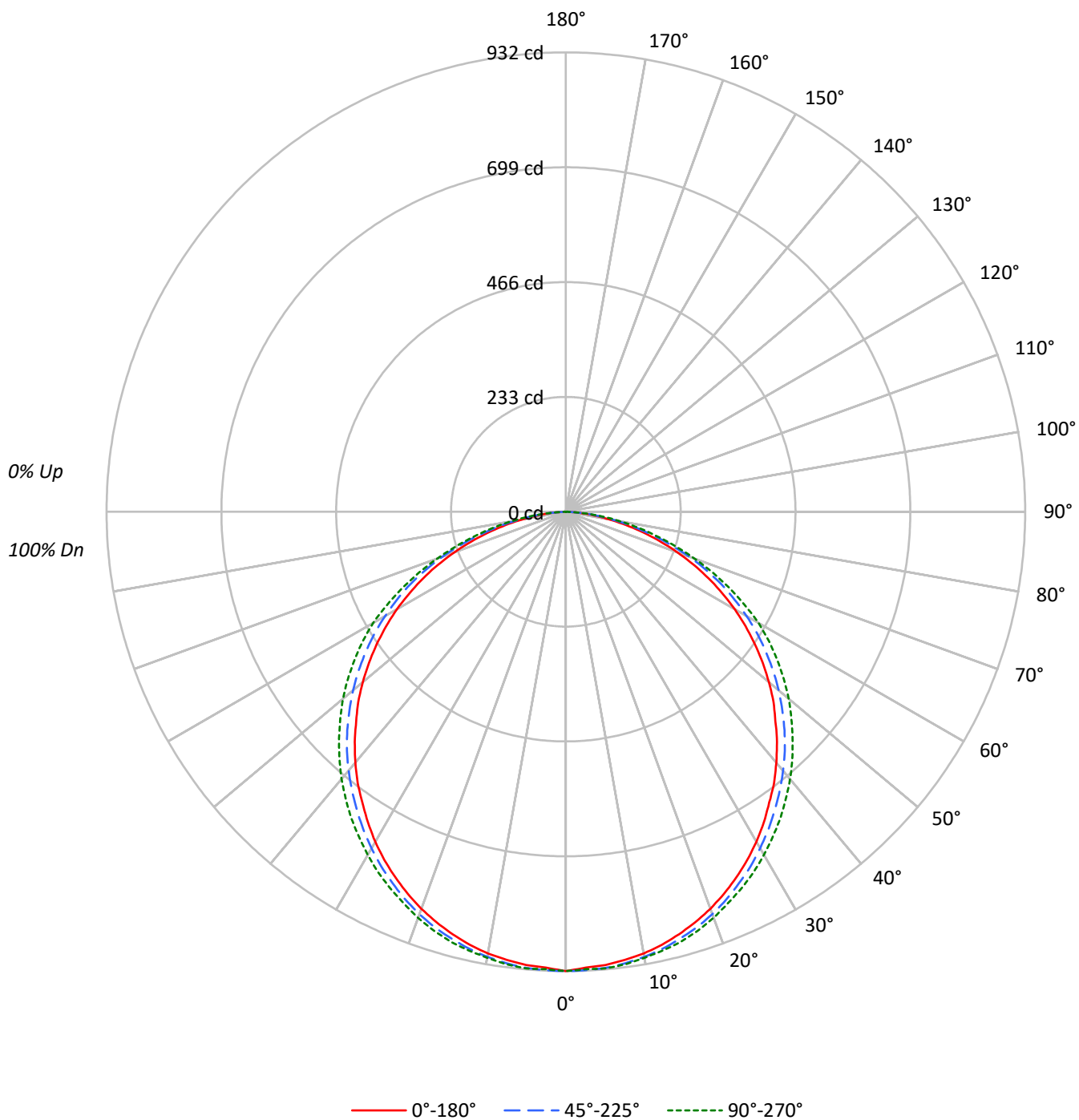
Lumens per Lamp: N/A
Luminaire Lumens: 2694.0 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
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		93	91	88		90
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		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°	3140	3140	3140
5°	3122	3143	3145
10°	3114	3137	3144
15°	3096	3128	3150
20°	3074	3115	3144
25°	3043	3091	3134
30°	3008	3067	3127
35°	2960	3040	3122
40°	2922	3016	3113
45°	2866	2989	3101
50°	2819	2954	3095
55°	2751	2912	3075
60°	2667	2854	3044
65°	2548	2776	2918
70°	2375	2622	2739
75°	2122	2364	2498
80°	1739	1993	2185
85°	1164	1458	1624

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3101 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	3.3
10°-20°	253.0	9.4
20°-30°	383.1	14.2
30°-40°	462.7	17.2
40°-50°	483.5	17.9
50°-60°	443.1	16.4
60°-70°	342.0	12.7
70°-80°	192.4	7.1
80°-90°	46.0	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°	724.4	26.9
0°-40°	1187.0	44.1
0°-60°	2113.6	78.5
0°-90°	2694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2694.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	932	932	932	932	932	
5°	923	930	929	930	930	88
15°	887	895	897	900	903	250
25°	818	826	832	836	843	377
35°	720	729	739	749	759	451
45°	602	613	627	640	651	465
55°	468	481	496	511	523	418
65°	320	334	348	362	366	316
75°	163	178	182	189	192	173
85°	30	34	38	41	42	39
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	931.9	931.9	931.9	931.9	931.9
2.5°	925.5	932.6	931.1	933.4	929.1
5°	923.1	929.9	929.1	929.9	929.9
7.5°	917.2	924.3	923.9	925.1	925.9
10°	910.0	916.8	916.8	918.0	918.8
12.5°	900.1	907.3	908.1	910.0	911.6
15°	887.4	894.6	896.6	900.1	902.9
17.5°	873.2	880.7	883.9	887.4	891.0
20°	857.3	864.0	868.8	871.6	876.7
22.5°	838.7	846.2	851.4	854.1	859.7
25°	818.4	825.6	831.5	835.9	843.0
27.5°	797.0	804.2	811.3	816.5	824.8
30°	773.2	780.8	788.3	796.2	803.8
32.5°	747.5	756.2	764.5	773.2	781.6
35°	719.7	728.8	739.1	749.1	759.0
37.5°	693.9	702.3	713.0	723.7	733.6
40°	664.2	673.3	685.6	697.5	707.8
42.5°	634.1	644.0	657.5	669.0	680.1
45°	601.5	613.4	627.3	640.0	650.7
47.5°	571.4	581.7	595.6	609.5	620.6
50°	537.7	549.2	563.5	578.1	590.4
52.5°	503.6	515.5	530.2	544.8	557.5
55°	468.3	480.6	495.7	511.1	523.4
57.5°	432.2	445.3	460.8	476.2	488.5
60°	395.7	408.8	423.5	440.6	451.7
62.5°	357.7	372.3	386.2	402.1	408.8
65°	319.6	333.5	348.2	362.0	366.0
67.5°	280.7	295.0	308.1	317.2	322.4
70°	241.1	256.6	266.1	274.8	278.0
72.5°	201.8	217.3	222.9	231.2	234.4
75°	163.0	178.0	181.6	189.1	191.9
77.5°	125.3	139.2	140.4	149.1	151.5
80°	89.6	100.7	102.7	111.0	112.6
82.5°	57.5	65.4	68.2	75.3	77.7
85°	30.1	34.5	37.7	41.2	42.0
87.5°	9.9	12.3	10.3	10.7	9.9
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	15.69	17.34	16.05	17.65	17.97	16.23	17.88	16.59	18.19	18.51
	3H	17.46	18.96	17.84	19.28	19.64	18.08	19.58	18.46	19.90	20.26
	4H	18.09	19.50	18.49	19.84	20.22	18.75	20.16	19.15	20.51	20.88
	6H	18.50	19.80	18.91	20.17	20.56	19.23	20.53	19.64	20.90	21.29
	8H	18.60	19.85	19.03	20.24	20.64	19.38	20.62	19.80	21.01	21.41
	12H	18.65	19.85	19.08	20.23	20.66	19.46	20.65	19.89	21.03	21.46
4H	2H	16.41	17.82	16.81	18.17	18.54	16.83	18.24	17.23	18.59	18.96
	3H	18.41	19.59	18.82	19.98	20.38	18.91	20.09	19.31	20.48	20.88
	4H	19.16	20.23	19.59	20.65	21.08	19.70	20.77	20.13	21.18	21.62
	6H	19.69	20.63	20.14	21.07	21.52	20.30	21.24	20.76	21.68	22.13
	8H	19.83	20.70	20.29	21.15	21.61	20.50	21.37	20.96	21.81	22.28
	12H	19.91	20.70	20.39	21.17	21.64	20.62	21.40	21.10	21.88	22.35
8H	4H	19.50	20.37	19.96	20.82	21.28	19.98	20.85	20.44	21.29	21.76
	6H	20.14	20.87	20.63	21.35	21.83	20.69	21.42	21.18	21.90	22.38
	8H	20.34	20.99	20.85	21.50	21.98	20.95	21.60	21.46	22.10	22.59
	12H	20.47	21.05	20.98	21.54	22.10	21.13	21.70	21.64	22.19	22.75
12H	4H	19.54	20.32	20.02	20.80	21.27	20.00	20.79	20.48	21.26	21.73
	6H	20.20	20.85	20.70	21.35	21.84	20.73	21.38	21.24	21.89	22.37
	8H	20.45	21.02	20.95	21.51	22.07	21.03	21.61	21.54	22.10	22.66