

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: P1584526

Luminaire Tested: 14CZSP-A-32HE-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584526
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-L940-S
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 3000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

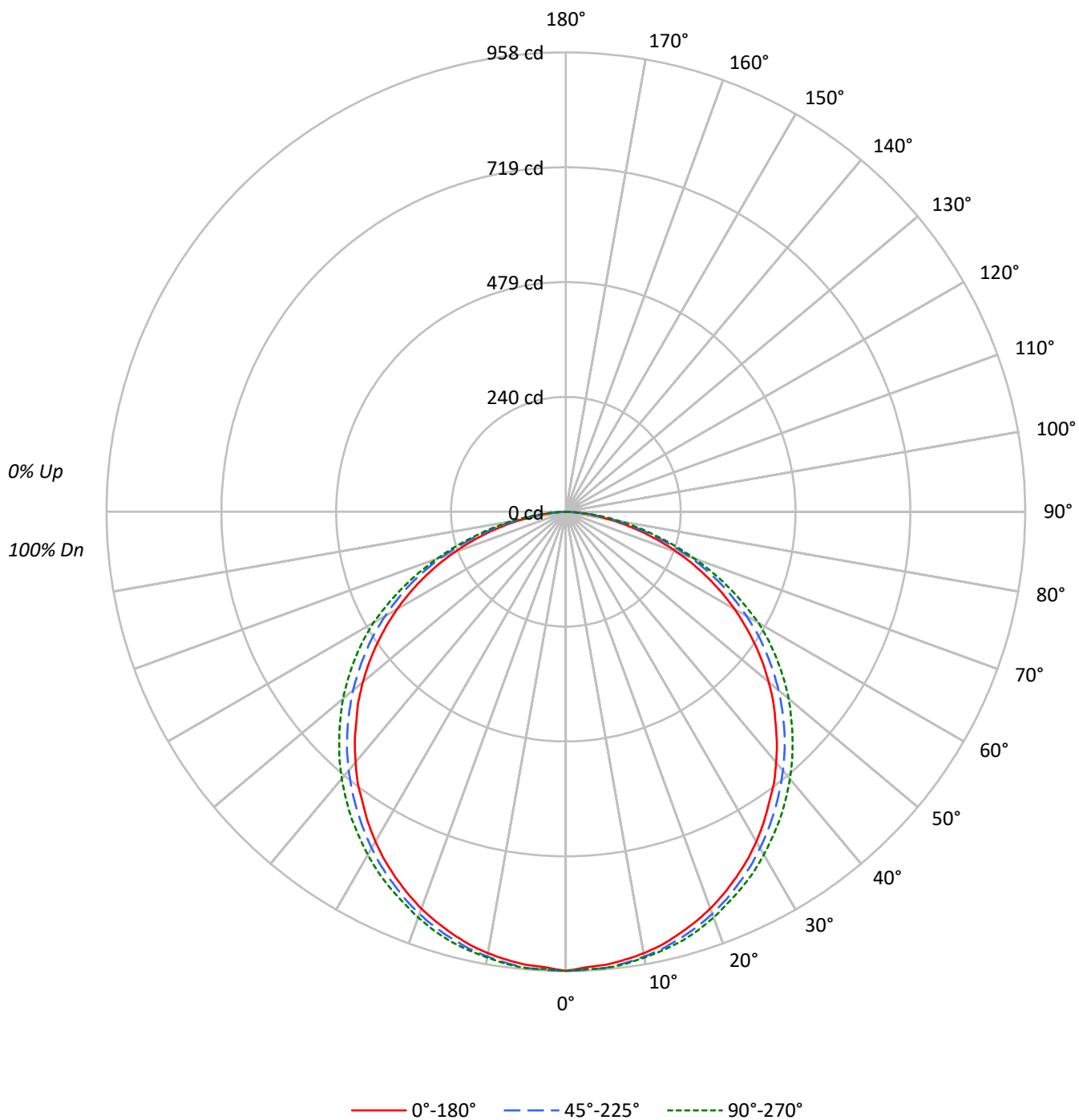
Lumens per Lamp: N/A
Luminaire Lumens: 2768.0 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			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		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69	65	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		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°	3226	3226	3226
5°	3208	3229	3232
10°	3199	3223	3230
15°	3181	3214	3236
20°	3159	3201	3230
25°	3126	3177	3220
30°	3091	3152	3213
35°	3042	3124	3208
40°	3002	3098	3199
45°	2945	3071	3186
50°	2896	3035	3180
55°	2827	2992	3159
60°	2740	2932	3128
65°	2618	2852	2999
70°	2440	2694	2814
75°	2181	2429	2567
80°	1787	2047	2245
85°	1199	1496	1670

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3186 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	3.3
10°-20°	260.0	9.4
20°-30°	393.6	14.2
30°-40°	475.4	17.2
40°-50°	496.8	17.9
50°-60°	455.2	16.4
60°-70°	351.4	12.7
70°-80°	197.7	7.1
80°-90°	47.3	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°	744.3	26.9
0°-40°	1219.6	44.1
0°-60°	2171.7	78.5
0°-90°	2768.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2768.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	948	955	955	955	955	90
15°	912	919	921	925	928	257
25°	841	848	854	859	866	388
35°	740	749	759	770	780	463
45°	618	630	644	658	669	478
55°	481	494	509	525	538	430
65°	328	343	358	372	376	324
75°	168	183	187	194	197	178
85°	31	35	39	42	43	40
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	957.5	957.5	957.5	957.5	957.5
2.5°	950.9	958.3	956.6	959.1	954.6
5°	948.5	955.4	954.6	955.4	955.4
7.5°	942.4	949.7	949.3	950.5	951.3
10°	935.0	942.0	942.0	943.2	944.0
12.5°	924.9	932.2	933.0	935.0	936.7
15°	911.8	919.2	921.2	924.9	927.7
17.5°	897.2	904.9	908.2	911.8	915.5
20°	880.9	887.8	892.7	895.5	900.8
22.5°	861.7	869.4	874.7	877.6	883.3
25°	840.9	848.3	854.4	858.9	866.2
27.5°	818.9	826.3	833.6	838.9	847.4
30°	794.5	802.2	810.0	818.1	825.9
32.5°	768.0	777.0	785.5	794.5	803.0
35°	739.5	748.9	759.4	769.6	779.8
37.5°	713.0	721.6	732.6	743.6	753.7
40°	682.4	691.8	704.4	716.7	727.3
42.5°	651.5	661.7	675.5	687.3	698.7
45°	618.1	630.3	644.5	657.6	668.6
47.5°	587.1	597.7	612.0	626.2	637.6
50°	552.5	564.3	579.0	594.0	606.7
52.5°	517.4	529.7	544.7	559.8	572.8
55°	481.2	493.8	509.3	525.2	537.8
57.5°	444.1	457.5	473.4	489.3	502.0
60°	406.6	420.1	435.1	452.7	464.1
62.5°	367.5	382.6	396.8	413.1	420.1
65°	328.4	342.6	357.7	372.0	376.1
67.5°	288.5	303.1	316.6	325.9	331.2
70°	247.7	263.6	273.4	282.3	285.6
72.5°	207.4	223.3	229.0	237.5	240.8
75°	167.5	182.9	186.6	194.3	197.2
77.5°	128.7	143.0	144.2	153.2	155.6
80°	92.1	103.5	105.5	114.1	115.7
82.5°	59.1	67.2	70.1	77.4	79.9
85°	31.0	35.4	38.7	42.4	43.2
87.5°	10.2	12.6	10.6	11.0	10.2
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	15.78	17.43	16.15	17.75	18.06	16.32	17.97	16.69	18.29	18.60
	3H	17.56	19.05	17.93	19.38	19.74	18.18	19.67	18.55	20.00	20.36
	4H	18.18	19.59	18.58	19.94	20.31	18.85	20.25	19.24	20.60	20.98
	6H	18.59	19.90	19.00	20.26	20.65	19.32	20.63	19.73	20.99	21.38
	8H	18.70	19.94	19.12	20.33	20.73	19.47	20.72	19.89	21.11	21.50
	12H	18.75	19.94	19.17	20.32	20.75	19.55	20.75	19.98	21.13	21.56
4H	2H	16.51	17.91	16.90	18.26	18.64	16.93	18.34	17.33	18.68	19.06
	3H	18.50	19.68	18.91	20.08	20.48	19.00	20.18	19.41	20.58	20.98
	4H	19.26	20.33	19.69	20.74	21.17	19.80	20.86	20.23	21.28	21.71
	6H	19.79	20.72	20.24	21.16	21.61	20.40	21.33	20.85	21.77	22.23
	8H	19.93	20.80	20.38	21.24	21.71	20.59	21.46	21.05	21.91	22.37
	12H	20.00	20.79	20.48	21.26	21.73	20.71	21.50	21.19	21.97	22.44
8H	4H	19.59	20.47	20.05	20.91	21.38	20.07	20.95	20.53	21.39	21.85
	6H	20.24	20.96	20.73	21.45	21.92	20.78	21.51	21.28	22.00	22.47
	8H	20.44	21.09	20.94	21.59	22.08	21.04	21.69	21.55	22.20	22.68
	12H	20.56	21.14	21.07	21.63	22.19	21.22	21.80	21.73	22.29	22.85
12H	4H	19.63	20.42	20.11	20.89	21.36	20.10	20.88	20.58	21.36	21.82
	6H	20.29	20.94	20.80	21.45	21.93	20.82	21.47	21.33	21.98	22.46
	8H	20.54	21.12	21.05	21.61	22.17	21.13	21.70	21.64	22.19	22.75