

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: P1584530

Luminaire Tested: 14CZSP-A-32HE-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584530
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-L950-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 3000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

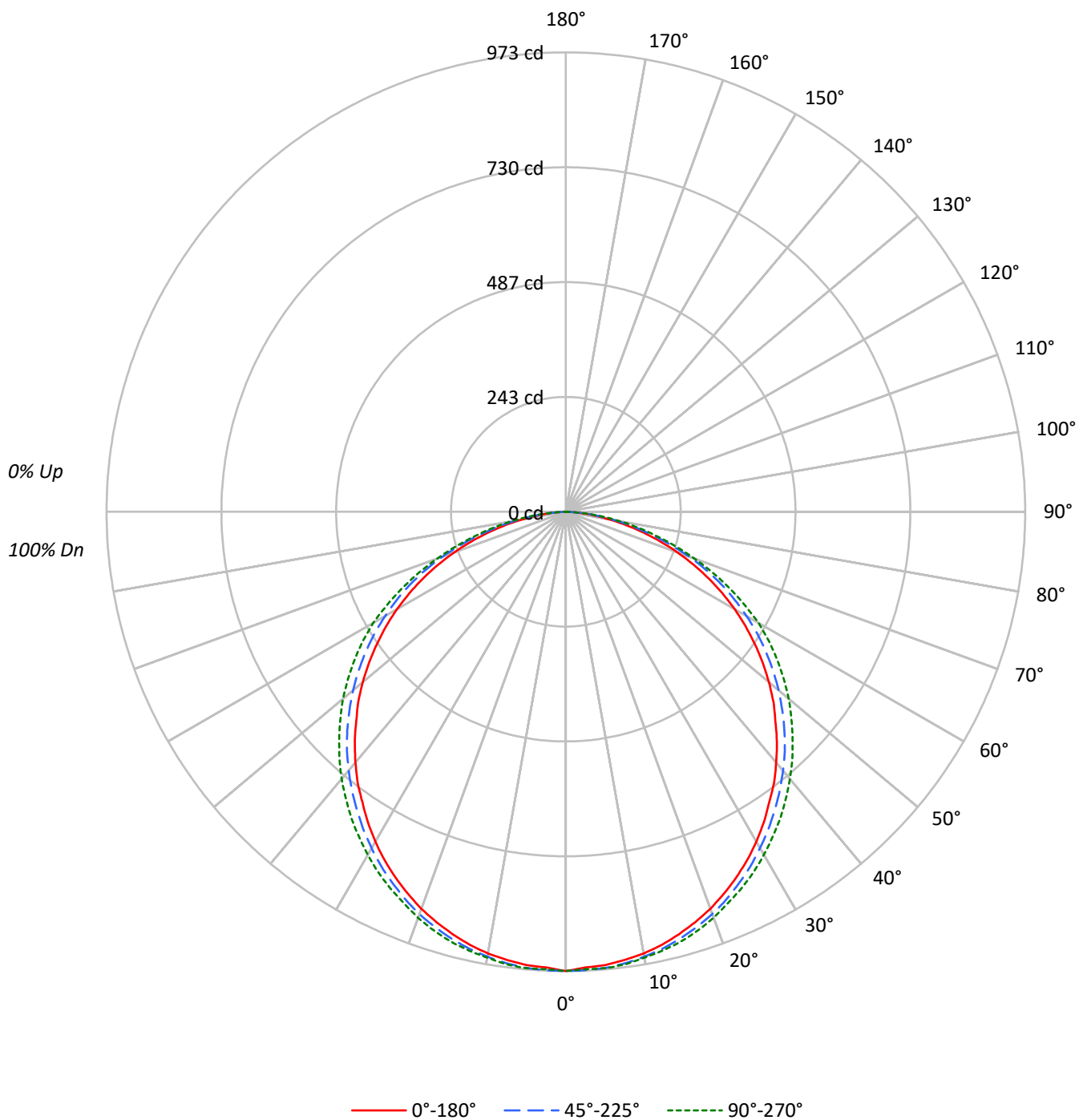
Lumens per Lamp: N/A
Luminaire Lumens: 2812.0 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3278	3278	3278
5°	3259	3280	3283
10°	3250	3274	3281
15°	3231	3264	3288
20°	3209	3252	3281
25°	3176	3227	3272
30°	3140	3201	3264
35°	3090	3174	3259
40°	3050	3148	3250
45°	2992	3120	3237
50°	2942	3083	3231
55°	2872	3040	3210
60°	2784	2979	3177
65°	2660	2897	3046
70°	2480	2736	2858
75°	2215	2468	2608
80°	1814	2080	2280
85°	1218	1519	1697

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3237 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	3.3
10°-20°	264.1	9.4
20°-30°	399.9	14.2
30°-40°	482.9	17.2
40°-50°	504.7	17.9
50°-60°	462.5	16.4
60°-70°	357.0	12.7
70°-80°	200.8	7.1
80°-90°	48.0	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°	756.1	26.9
0°-40°	1239.0	44.1
0°-60°	2206.2	78.5
0°-90°	2812.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2812.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	973	973	973	973	973	
5°	964	971	970	971	971	92
15°	926	934	936	940	942	261
25°	854	862	868	872	880	394
35°	751	761	772	782	792	471
45°	628	640	655	668	679	485
55°	489	502	517	534	546	437
65°	334	348	363	378	382	330
75°	170	186	190	197	200	180
85°	32	36	39	43	44	40
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	972.7	972.7	972.7	972.7	972.7
2.5°	966.1	973.5	971.8	974.3	969.8
5°	963.6	970.6	969.8	970.6	970.6
7.5°	957.4	964.8	964.4	965.6	966.5
10°	949.9	956.9	956.9	958.2	959.0
12.5°	939.6	947.0	947.8	949.9	951.6
15°	926.3	933.8	935.8	939.6	942.5
17.5°	911.4	919.3	922.6	926.3	930.0
20°	894.9	901.9	906.9	909.8	915.1
22.5°	875.4	883.3	888.7	891.5	897.3
25°	854.3	861.7	868.0	872.5	880.0
27.5°	831.9	839.4	846.8	852.2	860.9
30°	807.1	815.0	822.8	831.1	839.0
32.5°	780.2	789.3	798.0	807.1	815.8
35°	751.2	760.8	771.5	781.9	792.2
37.5°	724.3	733.0	744.2	755.4	765.7
40°	693.3	702.8	715.6	728.1	738.8
42.5°	661.8	672.2	686.3	698.3	709.8
45°	627.9	640.3	654.8	668.0	679.2
47.5°	596.4	607.2	621.7	636.2	647.8
50°	561.3	573.3	588.2	603.5	616.3
52.5°	525.7	538.1	553.4	568.7	581.9
55°	488.8	501.7	517.4	533.5	546.4
57.5°	451.2	464.8	481.0	497.1	509.9
60°	413.1	426.7	442.0	459.8	471.4
62.5°	373.3	388.7	403.1	419.7	426.7
65°	333.6	348.1	363.4	377.9	382.0
67.5°	293.0	307.9	321.6	331.1	336.5
70°	251.7	267.8	277.7	286.8	290.1
72.5°	210.7	226.8	232.6	241.3	244.6
75°	170.1	185.8	189.6	197.4	200.3
77.5°	130.8	145.3	146.5	155.6	158.1
80°	93.5	105.1	107.2	115.9	117.5
82.5°	60.0	68.3	71.2	78.6	81.1
85°	31.5	36.0	39.3	43.0	43.9
87.5°	10.3	12.8	10.8	11.2	10.3
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	15.84	17.49	16.20	17.80	18.12	16.38	18.03	16.74	18.34	18.66
	3H	17.61	19.11	17.99	19.43	19.79	18.23	19.73	18.61	20.05	20.41
	4H	18.24	19.65	18.64	19.99	20.37	18.90	20.31	19.30	20.66	21.03
	6H	18.65	19.95	19.06	20.32	20.71	19.38	20.68	19.79	21.05	21.44
	8H	18.75	20.00	19.17	20.39	20.78	19.52	20.77	19.95	21.16	21.56
	12H	18.80	19.99	19.23	20.38	20.80	19.61	20.80	20.04	21.18	21.61
4H	2H	16.56	17.97	16.96	18.32	18.69	16.98	18.39	17.38	18.74	19.11
	3H	18.56	19.74	18.96	20.13	20.53	19.05	20.24	19.46	20.63	21.03
	4H	19.31	20.38	19.74	20.79	21.23	19.85	20.92	20.28	21.33	21.77
	6H	19.84	20.77	20.29	21.21	21.67	20.45	21.39	20.91	21.83	22.28
	8H	19.98	20.85	20.44	21.30	21.76	20.64	21.52	21.10	21.96	22.42
	12H	20.06	20.84	20.54	21.32	21.79	20.77	21.55	21.24	22.03	22.49
8H	4H	19.65	20.52	20.11	20.97	21.43	20.13	21.00	20.59	21.44	21.91
	6H	20.29	21.02	20.78	21.50	21.98	20.84	21.57	21.33	22.05	22.53
	8H	20.49	21.14	21.00	21.65	22.13	21.10	21.75	21.60	22.25	22.74
	12H	20.62	21.19	21.13	21.68	22.24	21.28	21.85	21.78	22.34	22.90
12H	4H	19.69	20.47	20.17	20.95	21.42	20.15	20.94	20.63	21.41	21.88
	6H	20.34	21.00	20.85	21.50	21.99	20.88	21.53	21.38	22.03	22.52
	8H	20.60	21.17	21.10	21.66	22.22	21.18	21.76	21.69	22.25	22.81