

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: P1584512

Luminaire Tested: 14CZSP-A-32HE-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584512
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-L830-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 3000 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

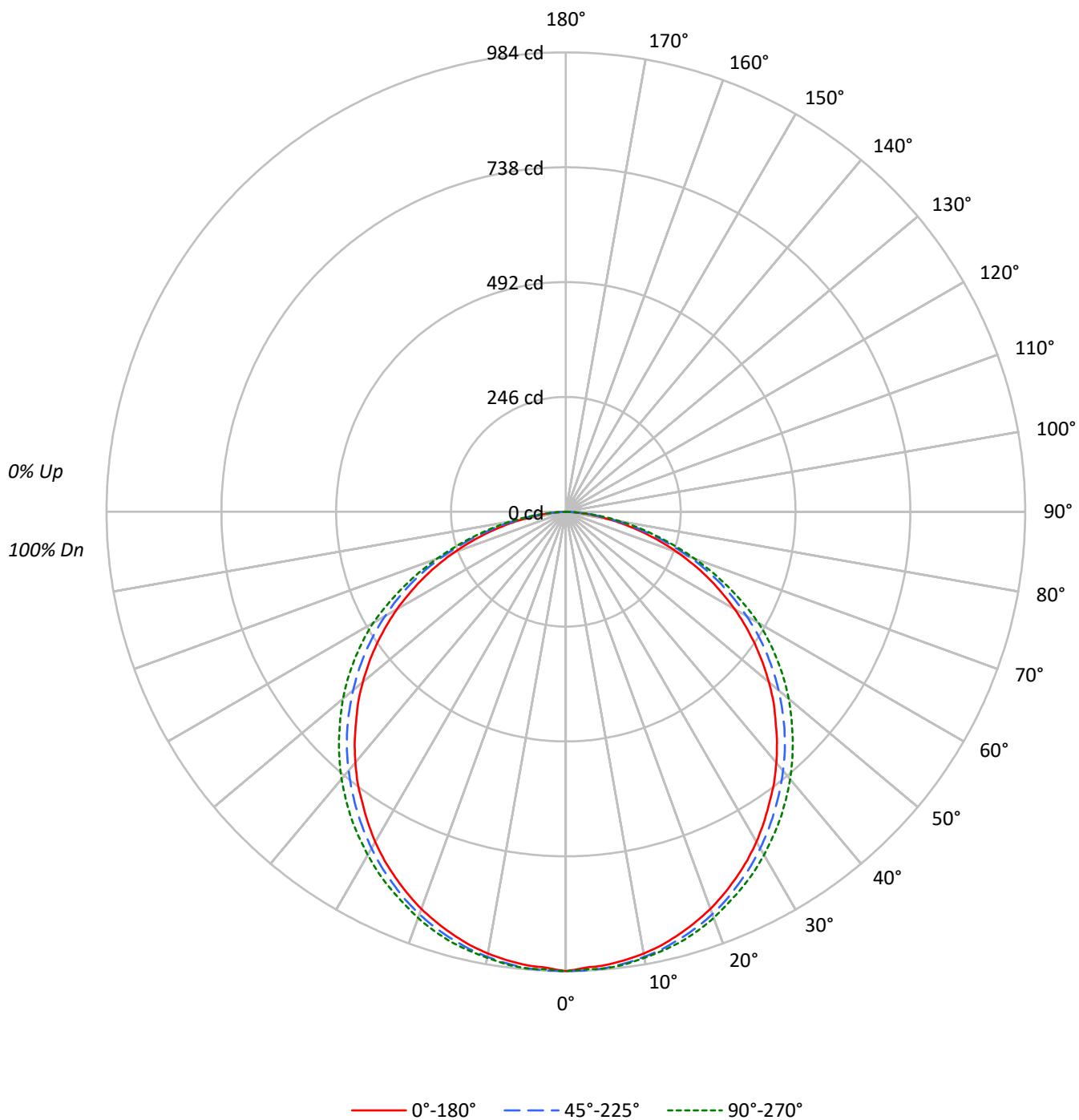
Lumens per Lamp: N/A
Luminaire Lumens: 2845.0 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3316	3316	3316
5°	3298	3319	3322
10°	3288	3313	3320
15°	3269	3303	3326
20°	3247	3290	3320
25°	3213	3265	3310
30°	3177	3239	3303
35°	3127	3211	3297
40°	3085	3185	3288
45°	3027	3157	3275
50°	2976	3120	3268
55°	2906	3075	3248
60°	2816	3014	3215
65°	2691	2932	3082
70°	2508	2768	2893
75°	2241	2497	2639
80°	1836	2105	2307
85°	1229	1539	1717

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3275 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	3.3
10°-20°	267.2	9.4
20°-30°	404.6	14.2
30°-40°	488.6	17.2
40°-50°	510.6	17.9
50°-60°	467.9	16.4
60°-70°	361.2	12.7
70°-80°	203.2	7.1
80°-90°	48.6	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°	765.0	26.9
0°-40°	1253.6	44.1
0°-60°	2232.1	78.5
0°-90°	2845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2845.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	984	984	984	984	984	
5°	975	982	981	982	982	93
15°	937	945	947	951	954	264
25°	864	872	878	883	890	398
35°	760	770	781	791	802	476
45°	635	648	662	676	687	491
55°	495	508	524	540	553	442
65°	338	352	368	382	386	333
75°	172	188	192	200	203	182
85°	32	36	40	44	44	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	984.1	984.1	984.1	984.1	984.1
2.5°	977.4	984.9	983.3	985.8	981.2
5°	974.9	982.0	981.2	982.0	982.0
7.5°	968.6	976.1	975.7	977.0	977.8
10°	961.1	968.2	968.2	969.4	970.3
12.5°	950.6	958.1	959.0	961.1	962.7
15°	937.2	944.7	946.8	950.6	953.5
17.5°	922.1	930.1	933.4	937.2	941.0
20°	905.4	912.5	917.5	920.4	925.9
22.5°	885.7	893.6	899.1	902.0	907.9
25°	864.3	871.9	878.1	882.7	890.3
27.5°	841.7	849.2	856.8	862.2	871.0
30°	816.6	824.5	832.5	840.9	848.8
32.5°	789.4	798.6	807.4	816.6	825.4
35°	760.1	769.7	780.6	791.0	801.5
37.5°	732.8	741.6	752.9	764.2	774.7
40°	701.4	711.1	724.0	736.6	747.5
42.5°	669.6	680.1	694.3	706.4	718.2
45°	635.3	647.8	662.5	675.9	687.2
47.5°	603.4	614.3	629.0	643.6	655.4
50°	567.8	580.0	595.1	610.6	623.5
52.5°	531.8	544.4	559.9	575.4	588.8
55°	494.6	507.5	523.5	539.8	552.8
57.5°	456.4	470.3	486.6	502.9	515.9
60°	417.9	431.7	447.2	465.2	477.0
62.5°	377.7	393.2	407.9	424.6	431.7
65°	337.5	352.2	367.7	382.3	386.5
67.5°	296.5	311.6	325.4	335.0	340.5
70°	254.6	270.9	281.0	290.2	293.6
72.5°	213.1	229.5	235.3	244.1	247.5
75°	172.1	188.0	191.8	199.7	202.7
77.5°	132.3	147.0	148.2	157.5	160.0
80°	94.6	106.4	108.5	117.3	118.9
82.5°	60.7	69.1	72.0	79.6	82.1
85°	31.8	36.4	39.8	43.6	44.4
87.5°	10.5	13.0	10.9	11.3	10.5
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	15.88	17.53	16.24	17.84	18.16	16.42	18.07	16.78	18.38	18.70
	3H	17.65	19.15	18.03	19.47	19.83	18.27	19.77	18.65	20.09	20.45
	4H	18.28	19.69	18.68	20.03	20.41	18.94	20.35	19.34	20.70	21.07
	6H	18.69	19.99	19.10	20.36	20.75	19.42	20.72	19.83	21.09	21.48
	8H	18.79	20.04	19.22	20.43	20.82	19.57	20.81	19.99	21.20	21.60
	12H	18.84	20.04	19.27	20.42	20.85	19.65	20.84	20.08	21.22	21.65
4H	2H	16.60	18.01	17.00	18.36	18.73	17.02	18.43	17.42	18.78	19.15
	3H	18.60	19.78	19.01	20.17	20.57	19.10	20.28	19.50	20.67	21.07
	4H	19.35	20.42	19.78	20.83	21.27	19.89	20.96	20.32	21.37	21.81
	6H	19.88	20.81	20.33	21.26	21.71	20.49	21.43	20.95	21.87	22.32
	8H	20.02	20.89	20.48	21.34	21.80	20.69	21.56	21.15	22.00	22.47
	12H	20.10	20.88	20.58	21.36	21.83	20.81	21.59	21.29	22.07	22.54
8H	4H	19.69	20.56	20.15	21.01	21.47	20.17	21.04	20.63	21.48	21.95
	6H	20.33	21.06	20.82	21.54	22.02	20.88	21.61	21.37	22.09	22.57
	8H	20.53	21.18	21.04	21.69	22.17	21.14	21.79	21.65	22.29	22.78
	12H	20.66	21.23	21.17	21.72	22.28	21.32	21.89	21.83	22.38	22.94
12H	4H	19.73	20.51	20.21	20.99	21.46	20.19	20.98	20.67	21.45	21.92
	6H	20.39	21.04	20.89	21.54	22.03	20.92	21.57	21.43	22.08	22.56
	8H	20.64	21.21	21.14	21.70	22.26	21.22	21.80	21.73	22.29	22.85