

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: P1584514

Luminaire Tested: 14CZSP-A-32HE-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584514
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-L835-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 3000 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

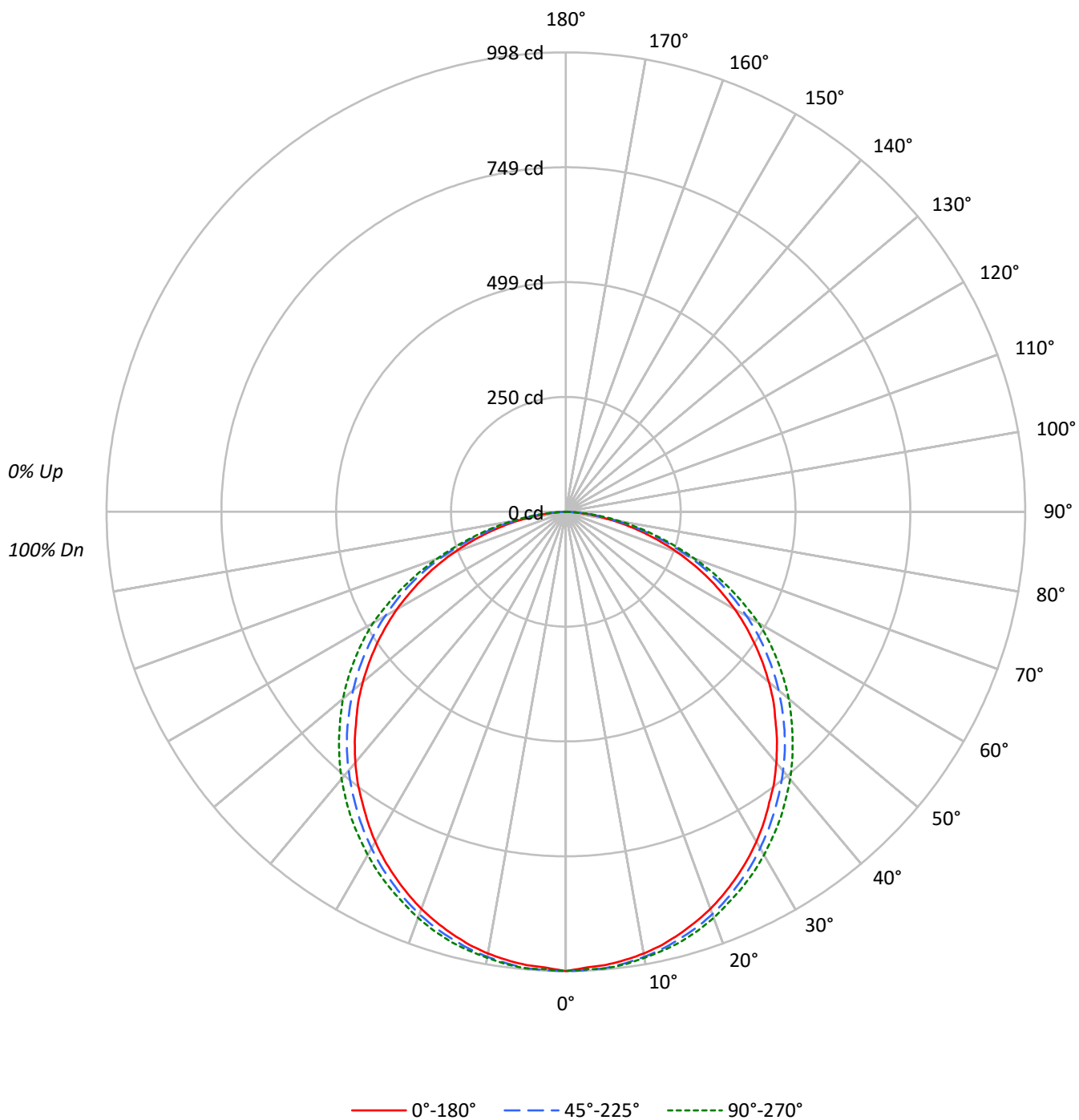
Lumens per Lamp: N/A
Luminaire Lumens: 2885.0 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			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°	3363	3363	3363
5°	3344	3366	3368
10°	3335	3359	3366
15°	3315	3349	3373
20°	3292	3336	3367
25°	3259	3311	3357
30°	3222	3285	3349
35°	3170	3256	3343
40°	3129	3230	3334
45°	3070	3201	3320
50°	3018	3163	3315
55°	2946	3118	3293
60°	2856	3056	3260
65°	2729	2972	3125
70°	2544	2807	2933
75°	2272	2532	2675
80°	1863	2135	2340
85°	1249	1558	1740

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3320 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	3.3
10°-20°	271.0	9.4
20°-30°	410.3	14.2
30°-40°	495.5	17.2
40°-50°	517.8	17.9
50°-60°	474.5	16.4
60°-70°	366.2	12.7
70°-80°	206.0	7.1
80°-90°	49.3	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°	775.7	26.9
0°-40°	1271.2	44.1
0°-60°	2263.4	78.5
0°-90°	2885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2885.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	998	998	998	998	998	
5°	989	996	995	996	996	94
15°	950	958	960	964	967	268
25°	876	884	890	895	903	404
35°	771	780	792	802	813	483
45°	644	657	672	685	697	498
55°	502	515	531	547	560	448
65°	342	357	373	388	392	338
75°	174	191	194	203	206	185
85°	32	37	40	44	45	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	997.9	997.9	997.9	997.9	997.9
2.5°	991.1	998.8	997.1	999.6	995.0
5°	988.6	995.8	995.0	995.8	995.8
7.5°	982.2	989.9	989.4	990.7	991.6
10°	974.6	981.8	981.8	983.1	983.9
12.5°	964.0	971.6	972.4	974.6	976.3
15°	950.4	958.0	960.1	964.0	966.9
17.5°	935.1	943.1	946.5	950.4	954.2
20°	918.1	925.3	930.4	933.4	938.9
22.5°	898.1	906.2	911.7	914.7	920.6
25°	876.5	884.1	890.5	895.2	902.8
27.5°	853.5	861.2	868.8	874.4	883.3
30°	828.1	836.1	844.2	852.7	860.8
32.5°	800.5	809.8	818.7	828.1	837.0
35°	770.7	780.5	791.5	802.2	812.8
37.5°	743.1	752.1	763.5	775.0	785.6
40°	711.3	721.1	734.2	747.0	758.0
42.5°	679.0	689.6	704.1	716.4	728.3
45°	644.2	656.9	671.8	685.4	696.8
47.5°	611.9	623.0	637.8	652.7	664.6
50°	575.8	588.1	603.4	619.1	632.3
52.5°	539.3	552.0	567.8	583.5	597.1
55°	501.5	514.7	530.8	547.4	560.5
57.5°	462.9	476.9	493.4	510.0	523.2
60°	423.8	437.8	453.5	471.8	483.7
62.5°	383.0	398.7	413.6	430.6	437.8
65°	342.3	357.1	372.8	387.7	392.0
67.5°	300.7	315.9	330.0	339.7	345.2
70°	258.2	274.7	284.9	294.3	297.7
72.5°	216.1	232.7	238.7	247.6	251.0
75°	174.5	190.7	194.5	202.6	205.5
77.5°	134.2	149.1	150.3	159.7	162.2
80°	96.0	107.9	110.0	118.9	120.6
82.5°	61.6	70.1	73.0	80.7	83.2
85°	32.3	36.9	40.3	44.2	45.0
87.5°	10.6	13.2	11.0	11.5	10.6
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	15.93	17.58	16.29	17.89	18.20	16.47	18.12	16.83	18.43	18.74
	3H	17.70	19.19	18.08	19.52	19.88	18.32	19.82	18.70	20.14	20.50
	4H	18.33	19.73	18.73	20.08	20.46	18.99	20.40	19.39	20.75	21.12
	6H	18.74	20.04	19.15	20.41	20.80	19.47	20.77	19.88	21.14	21.53
	8H	18.84	20.09	19.26	20.48	20.87	19.61	20.86	20.04	21.25	21.65
	12H	18.89	20.08	19.32	20.47	20.89	19.70	20.89	20.13	21.27	21.70
4H	2H	16.65	18.06	17.05	18.40	18.78	17.07	18.48	17.47	18.83	19.20
	3H	18.64	19.83	19.05	20.22	20.62	19.14	20.32	19.55	20.72	21.12
	4H	19.40	20.47	19.83	20.88	21.32	19.94	21.01	20.37	21.42	21.86
	6H	19.93	20.86	20.38	21.30	21.76	20.54	21.48	21.00	21.92	22.37
	8H	20.07	20.94	20.53	21.39	21.85	20.73	21.61	21.19	22.05	22.51
	12H	20.15	20.93	20.63	21.41	21.88	20.85	21.64	21.33	22.12	22.58
8H	4H	19.74	20.61	20.20	21.05	21.52	20.22	21.09	20.68	21.53	22.00
	6H	20.38	21.11	20.87	21.59	22.07	20.93	21.66	21.42	22.14	22.62
	8H	20.58	21.23	21.09	21.74	22.22	21.19	21.84	21.69	22.34	22.83
	12H	20.71	21.28	21.22	21.77	22.33	21.37	21.94	21.87	22.43	22.99
12H	4H	19.78	20.56	20.26	21.04	21.51	20.24	21.03	20.72	21.50	21.97
	6H	20.43	21.09	20.94	21.59	22.08	20.97	21.62	21.47	22.12	22.61
	8H	20.69	21.26	21.19	21.75	22.31	21.27	21.85	21.78	22.34	22.90