

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: P1584220

Luminaire Tested: 14CZSP-32HE-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584220
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-32HE-L850-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 3000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

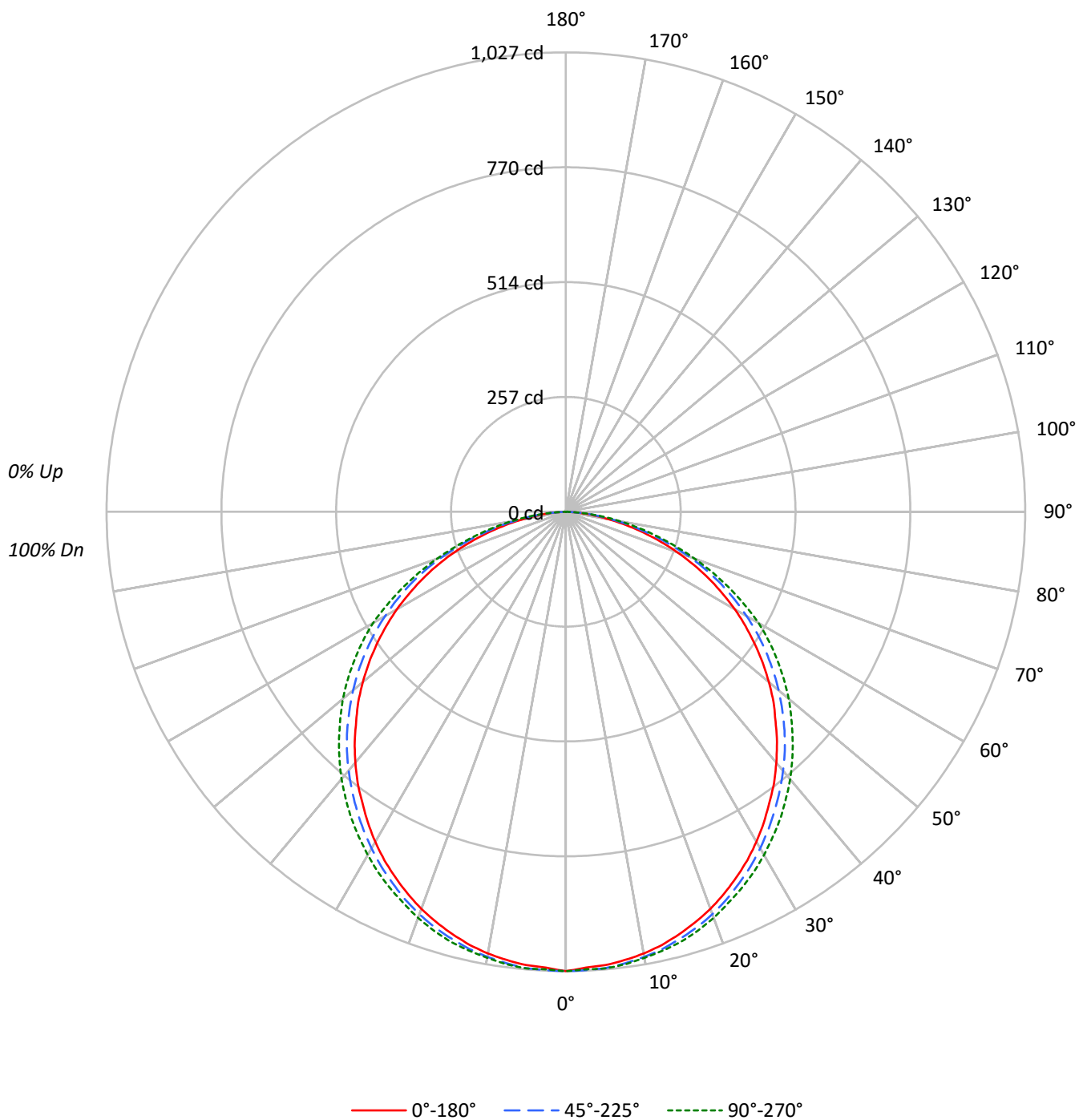
Lumens per Lamp: N/A
Luminaire Lumens: 2969.0 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3461	3461	3461
5°	3441	3463	3466
10°	3431	3457	3465
15°	3412	3447	3471
20°	3388	3433	3465
25°	3354	3407	3454
30°	3316	3380	3447
35°	3263	3351	3441
40°	3220	3324	3431
45°	3159	3295	3417
50°	3106	3255	3411
55°	3032	3209	3389
60°	2939	3145	3355
65°	2808	3059	3216
70°	2618	2889	3018
75°	2338	2606	2754
80°	1917	2197	2408
85°	1284	1604	1790

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3417 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	3.3
10°-20°	278.8	9.4
20°-30°	422.2	14.2
30°-40°	509.9	17.2
40°-50°	532.9	17.9
50°-60°	488.3	16.4
60°-70°	376.9	12.7
70°-80°	212.0	7.1
80°-90°	50.7	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°	798.3	26.9
0°-40°	1308.2	44.1
0°-60°	2329.4	78.5
0°-90°	2969.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2969.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1027	1027	1027	1027	1027	
5°	1017	1025	1024	1025	1025	97
15°	978	986	988	992	995	276
25°	902	910	916	921	929	416
35°	793	803	815	826	836	497
45°	663	676	691	705	717	512
55°	516	530	546	563	577	461
65°	352	368	384	399	403	348
75°	180	196	200	208	212	190
85°	33	38	42	45	46	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1027.0	1027.0	1027.0	1027.0	1027.0
2.5°	1020.0	1027.9	1026.1	1028.7	1023.9
5°	1017.4	1024.8	1023.9	1024.8	1024.8
7.5°	1010.8	1018.7	1018.2	1019.6	1020.4
10°	1002.9	1010.4	1010.4	1011.7	1012.6
12.5°	992.0	999.9	1000.8	1002.9	1004.7
15°	978.0	985.9	988.1	992.0	995.1
17.5°	962.3	970.6	974.1	978.0	982.0
20°	944.8	952.3	957.5	960.6	966.2
22.5°	924.3	932.6	938.3	941.3	947.4
25°	902.0	909.9	916.4	921.2	929.1
27.5°	878.4	886.3	894.1	899.8	909.0
30°	852.2	860.5	868.8	877.5	885.8
32.5°	823.8	833.4	842.6	852.2	861.4
35°	793.2	803.2	814.6	825.5	836.4
37.5°	764.8	773.9	785.7	797.5	808.5
40°	732.0	742.0	755.6	768.7	780.1
42.5°	698.8	709.7	724.6	737.2	749.5
45°	662.9	676.1	691.4	705.3	717.1
47.5°	629.7	641.1	656.4	671.7	683.9
50°	592.6	605.3	621.0	637.2	650.7
52.5°	555.0	568.1	584.3	600.5	614.4
55°	516.1	529.7	546.3	563.3	576.9
57.5°	476.3	490.8	507.8	524.9	538.4
60°	436.1	450.6	466.7	485.5	497.8
62.5°	394.2	410.4	425.7	443.1	450.6
65°	352.2	367.5	383.7	399.0	403.4
67.5°	309.4	325.1	339.6	349.6	355.3
70°	265.7	282.7	293.2	302.8	306.3
72.5°	222.4	239.5	245.6	254.8	258.3
75°	179.6	196.2	200.2	208.5	211.5
77.5°	138.1	153.4	154.7	164.3	166.9
80°	98.8	111.0	113.2	122.4	124.1
82.5°	63.4	72.1	75.2	83.0	85.7
85°	33.2	38.0	41.5	45.4	46.3
87.5°	10.9	13.5	11.4	11.8	10.9
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	16.03	17.68	16.39	17.99	18.30	16.57	18.22	16.93	18.53	18.84
	3H	17.80	19.29	18.18	19.62	19.98	18.42	19.92	18.80	20.24	20.60
	4H	18.43	19.83	18.83	20.18	20.56	19.09	20.50	19.49	20.85	21.22
	6H	18.84	20.14	19.25	20.50	20.90	19.57	20.87	19.98	21.24	21.63
	8H	18.94	20.19	19.36	20.57	20.97	19.71	20.96	20.14	21.35	21.75
	12H	18.99	20.18	19.42	20.57	20.99	19.80	20.99	20.23	21.37	21.80
4H	2H	16.75	18.16	17.15	18.50	18.88	17.17	18.58	17.57	18.93	19.30
	3H	18.74	19.92	19.15	20.32	20.72	19.24	20.42	19.65	20.82	21.22
	4H	19.50	20.57	19.93	20.98	21.42	20.04	21.11	20.47	21.52	21.96
	6H	20.03	20.96	20.48	21.40	21.86	20.64	21.58	21.10	22.02	22.47
	8H	20.17	21.04	20.63	21.48	21.95	20.83	21.71	21.29	22.15	22.61
	12H	20.25	21.03	20.73	21.51	21.98	20.95	21.74	21.43	22.21	22.68
8H	4H	19.84	20.71	20.30	21.15	21.62	20.32	21.19	20.78	21.63	22.10
	6H	20.48	21.21	20.97	21.69	22.17	21.03	21.75	21.52	22.24	22.72
	8H	20.68	21.33	21.19	21.84	22.32	21.29	21.94	21.79	22.44	22.93
	12H	20.81	21.38	21.31	21.87	22.43	21.47	22.04	21.97	22.53	23.09
12H	4H	19.88	20.66	20.36	21.14	21.60	20.34	21.13	20.82	21.60	22.07
	6H	20.53	21.19	21.04	21.69	22.18	21.07	21.72	21.57	22.22	22.71
	8H	20.79	21.36	21.29	21.85	22.41	21.37	21.95	21.88	22.44	23.00