

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: P1584231

Luminaire Tested: 14CZSP-32HE-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2602-698-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-32HE-L950
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 3000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

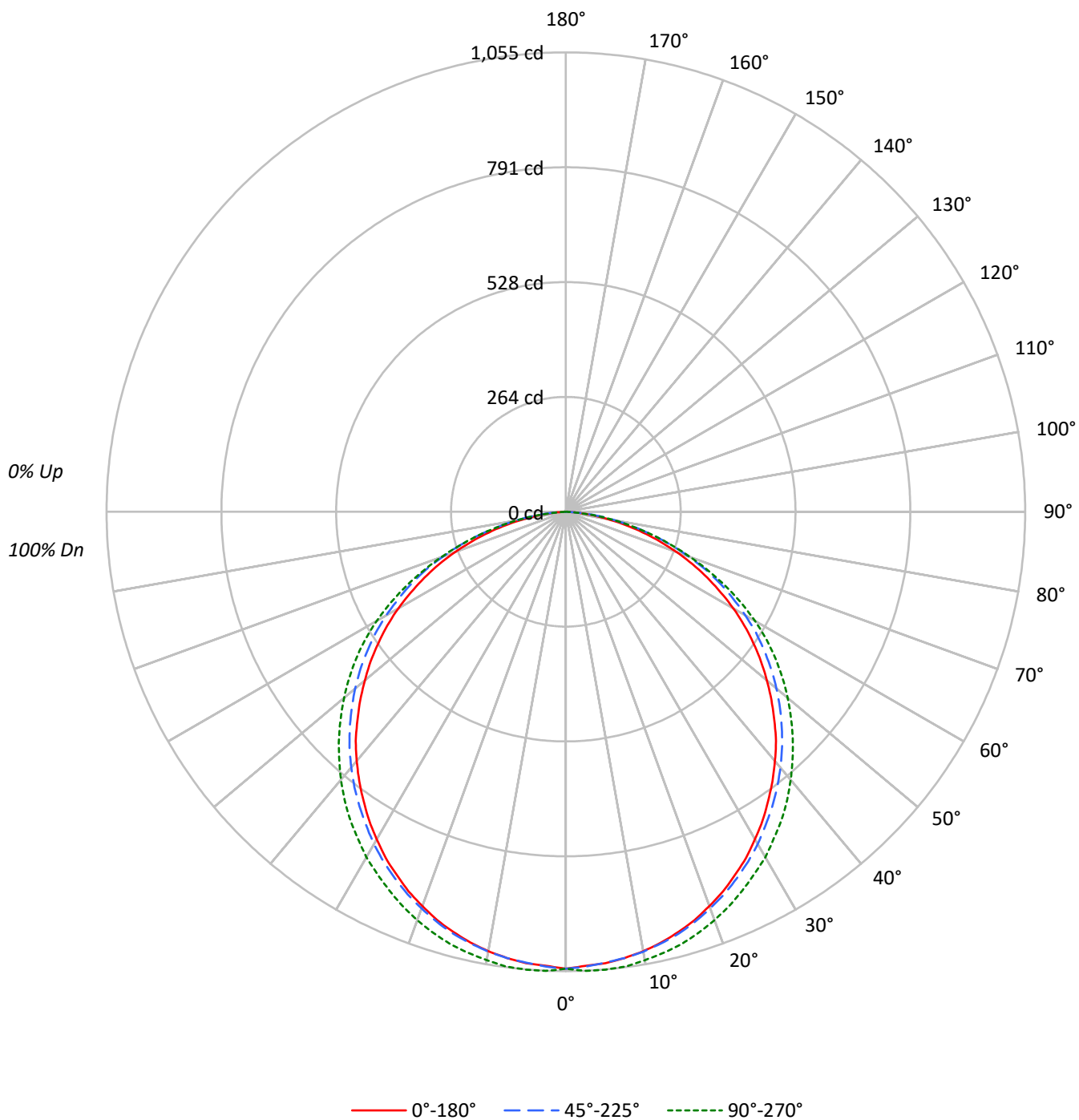
Lumens per Lamp: N/A
Luminaire Lumens: 3023.0 lumens
Efficiency: N/A
Efficacy: 146.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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		94	91	88		90
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	73	61	53	47	59	52	46		57	51	46		55
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46
8	60	47	38	32	59	46	38	32	44	37	32		43	36	32		42
9	56	43	34	29	55	42	34	29	41	34	29		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°	3536	3536	3536
5°	3520	3516	3570
10°	3506	3509	3577
15°	3485	3499	3585
20°	3455	3476	3579
25°	3420	3454	3567
30°	3380	3430	3564
35°	3333	3398	3553
40°	3286	3373	3534
45°	3226	3343	3513
50°	3160	3310	3487
55°	3088	3269	3454
60°	2997	3210	3383
65°	2860	3128	3231
70°	2668	2950	2999
75°	2380	2664	2688
80°	1937	2243	2224
85°	1260	1566	1222

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3513 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	3.3
10°-20°	284.8	9.4
20°-30°	431.4	14.3
30°-40°	521.1	17.2
40°-50°	544.3	18.0
50°-60°	498.5	16.5
60°-70°	383.0	12.7
70°-80°	213.3	7.1
80°-90°	47.2	1.6
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°	815.6	27.0
0°-40°	1336.7	44.2
0°-60°	2379.5	78.7
0°-90°	3023.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3023.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1050	1050	1050	1050	1050	
5°	1041	1051	1040	1046	1055	99
15°	999	1009	1003	1013	1028	282
25°	920	931	929	943	960	424
35°	810	822	826	846	864	507
45°	677	692	702	722	737	523
55°	526	542	556	576	588	470
65°	359	378	392	400	405	354
75°	183	202	205	205	206	194
85°	33	38	40	34	32	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1049.5	1049.5	1049.5	1049.5	1049.5
2.5°	1043.5	1053.4	1045.5	1048.5	1055.4
5°	1040.6	1051.4	1039.6	1045.5	1055.4
7.5°	1033.7	1043.5	1033.7	1040.6	1053.4
10°	1024.8	1035.6	1025.7	1032.7	1045.5
12.5°	1012.9	1021.8	1014.9	1024.8	1037.6
15°	999.1	1008.9	1003.0	1012.9	1027.7
17.5°	983.3	992.2	987.2	1000.1	1013.9
20°	963.5	973.4	969.4	982.3	998.1
22.5°	943.7	953.6	950.6	963.5	980.3
25°	920.0	930.9	928.9	942.7	959.5
27.5°	896.3	907.2	906.2	922.0	937.8
30°	868.6	879.5	881.5	898.3	916.1
32.5°	841.0	852.8	853.8	872.6	889.4
35°	810.3	822.2	826.1	845.9	863.7
37.5°	779.7	791.5	797.5	816.3	835.0
40°	747.1	759.9	766.8	786.6	803.4
42.5°	714.5	727.3	735.2	755.0	770.8
45°	676.9	691.7	701.6	722.4	737.2
47.5°	640.4	656.2	667.0	686.8	701.6
50°	602.8	619.6	631.5	651.2	665.1
52.5°	565.2	583.0	594.9	613.7	627.5
55°	525.7	542.5	556.4	576.1	588.0
57.5°	486.2	503.0	517.8	535.6	546.5
60°	444.7	462.5	476.3	494.1	502.0
62.5°	401.2	420.0	433.8	447.7	454.6
65°	358.7	377.5	392.3	400.2	405.2
67.5°	315.2	334.0	347.8	351.8	354.8
70°	270.8	289.5	299.4	301.4	304.4
72.5°	226.3	245.1	253.0	253.0	254.0
75°	182.8	201.6	204.6	204.6	206.5
77.5°	140.3	157.1	159.1	159.1	159.1
80°	99.8	112.7	115.6	115.6	114.6
82.5°	63.2	72.1	77.1	73.1	71.2
85°	32.6	38.5	40.5	33.6	31.6
87.5°	9.9	11.9	9.9	5.9	4.9
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	16.13	17.78	16.50	18.09	18.41	16.64	18.29	17.00	18.60	18.91
	3H	17.90	19.39	18.28	19.72	20.08	18.44	19.93	18.81	20.25	20.61
	4H	18.53	19.93	18.92	20.28	20.65	19.07	20.47	19.47	20.82	21.19
	6H	18.93	20.23	19.34	20.60	20.99	19.49	20.79	19.90	21.15	21.54
	8H	19.03	20.27	19.45	20.66	21.06	19.59	20.84	20.02	21.23	21.62
	12H	19.07	20.27	19.50	20.65	21.08	19.63	20.82	20.06	21.21	21.63
4H	2H	16.85	18.26	17.25	18.61	18.98	17.25	18.65	17.65	19.00	19.38
	3H	18.85	20.02	19.26	20.42	20.82	19.26	20.44	19.67	20.84	21.24
	4H	19.60	20.67	20.04	21.08	21.52	20.01	21.08	20.44	21.49	21.93
	6H	20.13	21.06	20.58	21.50	21.95	20.55	21.48	21.01	21.92	22.38
	8H	20.26	21.13	20.72	21.57	22.04	20.69	21.56	21.15	22.01	22.47
	12H	20.33	21.11	20.81	21.59	22.06	20.76	21.54	21.24	22.02	22.48
8H	4H	19.94	20.81	20.40	21.25	21.71	20.30	21.17	20.76	21.61	22.08
	6H	20.57	21.29	21.06	21.78	22.26	20.94	21.66	21.43	22.15	22.63
	8H	20.76	21.41	21.27	21.92	22.40	21.14	21.78	21.64	22.29	22.77
	12H	20.88	21.46	21.39	21.95	22.51	21.24	21.81	21.75	22.30	22.86
12H	4H	19.97	20.75	20.45	21.22	21.69	20.32	21.11	20.80	21.58	22.05
	6H	20.62	21.27	21.13	21.77	22.26	20.98	21.63	21.49	22.13	22.62
	8H	20.86	21.44	21.37	21.93	22.49	21.22	21.79	21.73	22.29	22.85