

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: P1584217

Luminaire Tested: 14CZSP-32HE-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584217
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-L840
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 3000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

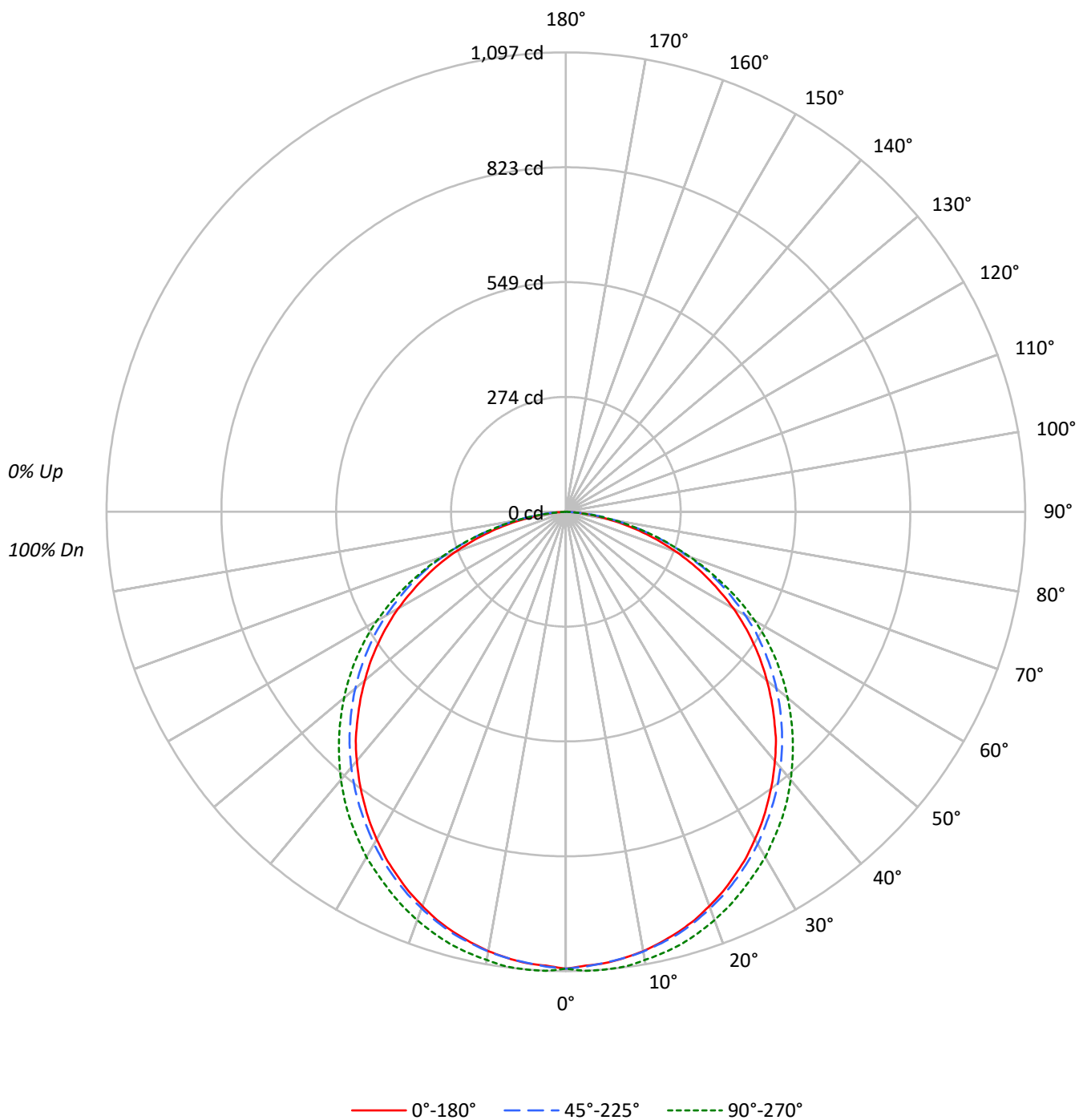
Lumens per Lamp: N/A
Luminaire Lumens: 3143.0 lumens
Efficiency: N/A
Efficacy: 151.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			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		94	91	88		90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62	56	52	50
5	76	63	54	47	73	61	53	47	59	52	46		57	51	46		55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32		43	36	32		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29		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°	3677	3677	3677
5°	3659	3656	3712
10°	3645	3649	3719
15°	3623	3638	3727
20°	3592	3614	3721
25°	3556	3591	3709
30°	3514	3566	3706
35°	3466	3533	3694
40°	3416	3507	3674
45°	3354	3476	3653
50°	3285	3441	3625
55°	3211	3398	3591
60°	3116	3337	3517
65°	2974	3252	3358
70°	2773	3067	3117
75°	2475	2769	2795
80°	2014	2332	2313
85°	1311	1628	1272

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3653 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.4	3.3
10°-20°	296.1	9.4
20°-30°	448.5	14.3
30°-40°	541.8	17.2
40°-50°	566.0	18.0
50°-60°	518.3	16.5
60°-70°	398.2	12.7
70°-80°	221.7	7.1
80°-90°	49.1	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°	848.0	27.0
0°-40°	1389.8	44.2
0°-60°	2474.0	78.7
0°-90°	3143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3143.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1091	1091	1091	1091	1091	
5°	1082	1093	1081	1087	1097	103
15°	1039	1049	1043	1053	1068	293
25°	956	968	966	980	998	441
35°	842	855	859	880	898	527
45°	704	719	730	751	766	543
55°	547	564	578	599	611	489
65°	373	392	408	416	421	369
75°	190	210	213	213	215	201
85°	34	40	42	35	33	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1091.1	1091.1	1091.1	1091.1	1091.1
2.5°	1085.0	1095.2	1087.0	1090.1	1097.3
5°	1081.9	1093.2	1080.9	1087.0	1097.3
7.5°	1074.7	1085.0	1074.7	1081.9	1095.2
10°	1065.4	1076.7	1066.5	1073.7	1087.0
12.5°	1053.1	1062.4	1055.2	1065.4	1078.8
15°	1038.7	1049.0	1042.8	1053.1	1068.5
17.5°	1022.3	1031.5	1026.4	1039.8	1054.1
20°	1001.7	1012.0	1007.9	1021.3	1037.7
22.5°	981.2	991.5	988.4	1001.7	1019.2
25°	956.5	967.8	965.8	980.2	997.6
27.5°	931.9	943.2	942.1	958.6	975.0
30°	903.1	914.4	916.5	933.9	952.4
32.5°	874.3	886.7	887.7	907.2	924.7
35°	842.5	854.8	858.9	879.5	898.0
37.5°	810.6	823.0	829.1	848.7	868.2
40°	776.7	790.1	797.3	817.8	835.3
42.5°	742.8	756.2	764.4	785.0	801.4
45°	703.8	719.2	729.5	751.0	766.5
47.5°	665.8	682.2	693.5	714.1	729.5
50°	626.7	644.2	656.5	677.1	691.5
52.5°	587.7	606.2	618.5	638.0	652.4
55°	546.6	564.1	578.4	599.0	611.3
57.5°	505.5	523.0	538.4	556.9	568.2
60°	462.3	480.8	495.2	513.7	521.9
62.5°	417.1	436.7	451.0	465.4	472.6
65°	373.0	392.5	407.9	416.1	421.2
67.5°	327.7	347.3	361.7	365.8	368.8
70°	281.5	301.0	311.3	313.4	316.4
72.5°	235.3	254.8	263.0	263.0	264.0
75°	190.1	209.6	212.7	212.7	214.7
77.5°	145.9	163.4	165.4	165.4	165.4
80°	103.8	117.1	120.2	120.2	119.2
82.5°	65.8	75.0	80.1	76.0	74.0
85°	33.9	40.1	42.1	34.9	32.9
87.5°	10.3	12.3	10.3	6.2	5.1
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	16.27	17.92	16.63	18.23	18.54	16.77	18.42	17.14	18.74	19.05
	3H	18.04	19.53	18.42	19.86	20.22	18.57	20.06	18.95	20.39	20.75
	4H	18.66	20.07	19.06	20.41	20.79	19.20	20.61	19.60	20.95	21.33
	6H	19.07	20.37	19.48	20.73	21.12	19.62	20.93	20.03	21.29	21.68
	8H	19.16	20.41	19.59	20.80	21.19	19.73	20.97	20.15	21.36	21.76
	12H	19.21	20.40	19.64	20.78	21.21	19.77	20.96	20.20	21.34	21.77
4H	2H	16.99	18.39	17.39	18.74	19.12	17.39	18.79	17.78	19.14	19.51
	3H	18.98	20.16	19.39	20.56	20.96	19.40	20.57	19.81	20.97	21.37
	4H	19.74	20.80	20.17	21.22	21.65	20.15	21.21	20.58	21.63	22.06
	6H	20.26	21.19	20.71	21.63	22.09	20.69	21.62	21.14	22.06	22.51
	8H	20.39	21.26	20.85	21.71	22.17	20.83	21.70	21.29	22.14	22.61
	12H	20.47	21.25	20.95	21.72	22.19	20.89	21.68	21.37	22.15	22.62
8H	4H	20.07	20.94	20.53	21.38	21.85	20.43	21.30	20.89	21.75	22.21
	6H	20.71	21.43	21.20	21.92	22.39	21.08	21.80	21.57	22.29	22.76
	8H	20.90	21.55	21.41	22.05	22.54	21.27	21.92	21.78	22.42	22.91
	12H	21.02	21.59	21.53	22.08	22.64	21.38	21.95	21.88	22.44	23.00
12H	4H	20.10	20.89	20.58	21.36	21.83	20.46	21.24	20.94	21.72	22.18
	6H	20.76	21.40	21.26	21.91	22.40	21.12	21.76	21.62	22.27	22.76
	8H	21.00	21.57	21.51	22.06	22.62	21.36	21.93	21.86	22.42	22.98