

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: P1584229

Luminaire Tested: 14CZSP-32HE-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584229
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-L945
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 3000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

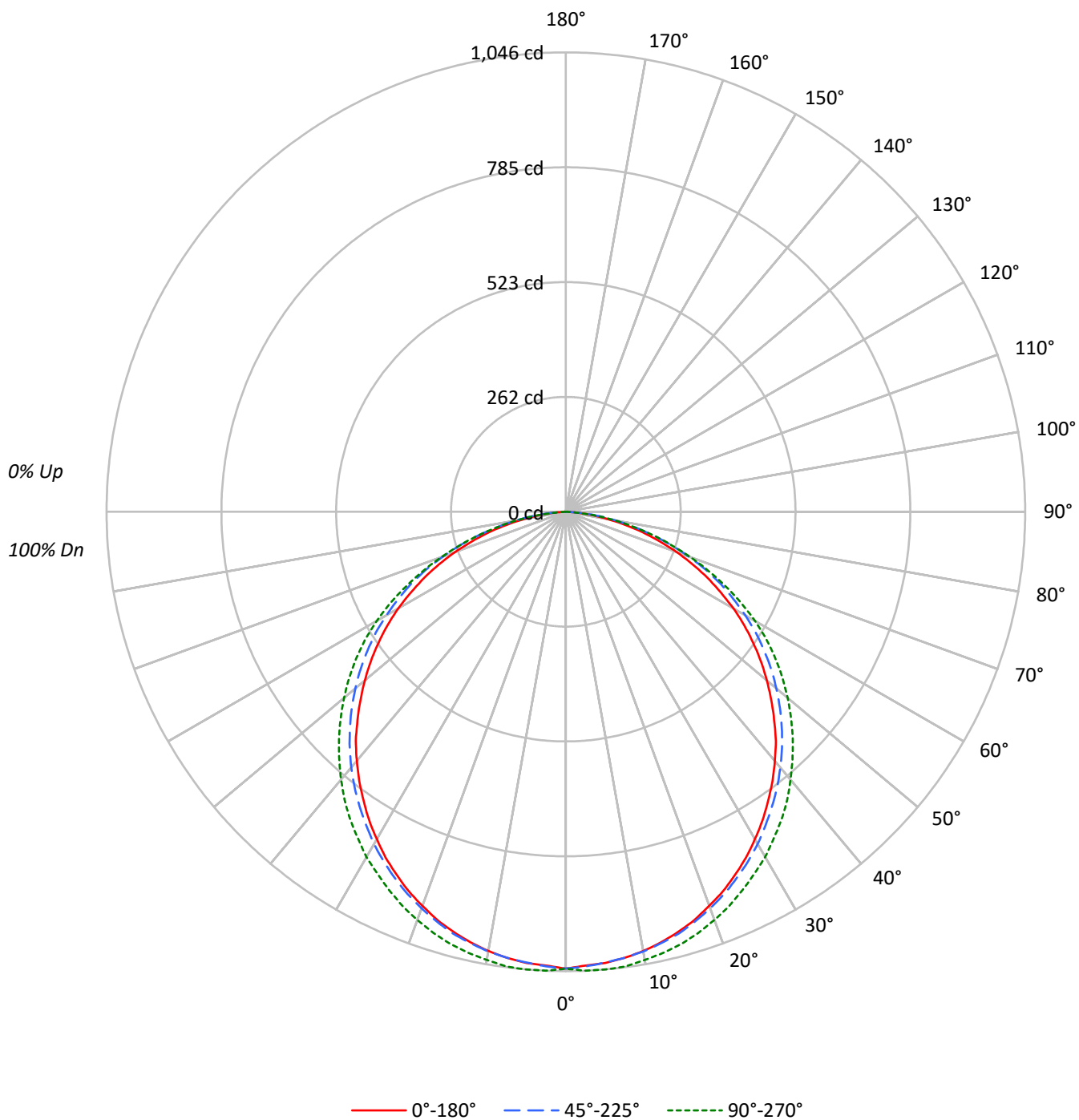
Lumens per Lamp: N/A
Luminaire Lumens: 2996.0 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3505	3505	3505
5°	3488	3485	3538
10°	3475	3478	3545
15°	3454	3468	3553
20°	3424	3445	3547
25°	3390	3423	3536
30°	3350	3399	3533
35°	3304	3368	3521
40°	3257	3343	3502
45°	3197	3314	3482
50°	3132	3281	3455
55°	3061	3239	3423
60°	2970	3182	3353
65°	2834	3100	3201
70°	2643	2923	2971
75°	2359	2639	2665
80°	1919	2224	2204
85°	1249	1554	1210

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3482 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	3.3
10°-20°	282.3	9.4
20°-30°	427.5	14.3
30°-40°	516.4	17.2
40°-50°	539.5	18.0
50°-60°	494.0	16.5
60°-70°	379.6	12.7
70°-80°	211.4	7.1
80°-90°	46.8	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°	808.3	27.0
0°-40°	1324.8	44.2
0°-60°	2358.3	78.7
0°-90°	2996.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2996.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1040	1040	1040	1040	1040	
5°	1031	1042	1030	1036	1046	98
15°	990	1000	994	1004	1018	279
25°	912	923	921	934	951	420
35°	803	815	819	838	856	503
45°	671	686	695	716	731	518
55°	521	538	551	571	583	466
65°	356	374	389	397	402	351
75°	181	200	203	203	205	192
85°	32	38	40	33	31	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1040.1	1040.1	1040.1	1040.1	1040.1
2.5°	1034.2	1044.0	1036.2	1039.1	1046.0
5°	1031.3	1042.1	1030.3	1036.2	1046.0
7.5°	1024.4	1034.2	1024.4	1031.3	1044.0
10°	1015.6	1026.4	1016.6	1023.4	1036.2
12.5°	1003.9	1012.7	1005.8	1015.6	1028.3
15°	990.1	999.9	994.1	1003.9	1018.5
17.5°	974.5	983.3	978.4	991.1	1004.8
20°	954.9	964.7	960.8	973.5	989.2
22.5°	935.3	945.1	942.2	954.9	971.5
25°	911.8	922.6	920.6	934.3	951.0
27.5°	888.3	899.1	898.1	913.8	929.4
30°	860.9	871.6	873.6	890.2	907.9
32.5°	833.4	845.2	846.2	864.8	881.4
35°	803.1	814.8	818.8	838.3	856.0
37.5°	772.7	784.5	790.4	809.0	827.6
40°	740.4	753.1	760.0	779.6	796.2
42.5°	708.1	720.8	728.7	748.2	763.9
45°	670.9	685.6	695.4	715.9	730.6
47.5°	634.6	650.3	661.1	680.7	695.4
50°	597.4	614.1	625.8	645.4	659.1
52.5°	560.2	577.8	589.6	608.2	621.9
55°	521.0	537.7	551.4	571.0	582.7
57.5°	481.9	498.5	513.2	530.8	541.6
60°	440.7	458.3	472.1	489.7	497.5
62.5°	397.6	416.2	429.9	443.7	450.5
65°	355.5	374.1	388.8	396.6	401.5
67.5°	312.4	331.0	344.7	348.7	351.6
70°	268.3	287.0	296.7	298.7	301.6
72.5°	224.3	242.9	250.7	250.7	251.7
75°	181.2	199.8	202.7	202.7	204.7
77.5°	139.1	155.7	157.7	157.7	157.7
80°	98.9	111.6	114.6	114.6	113.6
82.5°	62.7	71.5	76.4	72.5	70.5
85°	32.3	38.2	40.2	33.3	31.3
87.5°	9.8	11.8	9.8	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	16.10	17.75	16.47	18.06	18.38	16.61	18.25	16.97	18.57	18.88
	3H	17.87	19.36	18.25	19.69	20.05	18.41	19.90	18.78	20.22	20.58
	4H	18.50	19.90	18.89	20.25	20.62	19.04	20.44	19.43	20.79	21.16
	6H	18.90	20.20	19.31	20.56	20.96	19.46	20.76	19.87	21.12	21.51
	8H	19.00	20.24	19.42	20.63	21.03	19.56	20.81	19.99	21.19	21.59
	12H	19.04	20.23	19.47	20.62	21.04	19.60	20.79	20.03	21.17	21.60
4H	2H	16.82	18.23	17.22	18.57	18.95	17.22	18.62	17.62	18.97	19.34
	3H	18.82	19.99	19.22	20.39	20.79	19.23	20.41	19.64	20.80	21.20
	4H	19.57	20.64	20.00	21.05	21.49	19.98	21.05	20.41	21.46	21.90
	6H	20.09	21.02	20.55	21.46	21.92	20.52	21.45	20.97	21.89	22.35
	8H	20.23	21.10	20.69	21.54	22.00	20.66	21.53	21.12	21.97	22.44
	12H	20.30	21.08	20.78	21.56	22.03	20.73	21.51	21.21	21.98	22.45
8H	4H	19.91	20.78	20.37	21.22	21.68	20.27	21.14	20.73	21.58	22.04
	6H	20.54	21.26	21.03	21.75	22.22	20.91	21.63	21.40	22.12	22.59
	8H	20.73	21.38	21.24	21.88	22.37	21.10	21.75	21.61	22.26	22.74
	12H	20.85	21.43	21.36	21.92	22.48	21.21	21.78	21.72	22.27	22.83
12H	4H	19.94	20.72	20.42	21.19	21.66	20.29	21.07	20.77	21.55	22.02
	6H	20.59	21.24	21.10	21.74	22.23	20.95	21.60	21.46	22.10	22.59
	8H	20.83	21.40	21.34	21.89	22.45	21.19	21.76	21.70	22.25	22.81