

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: P1584227

Luminaire Tested: 14CZSP-32HE-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584227
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-L940
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 3000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

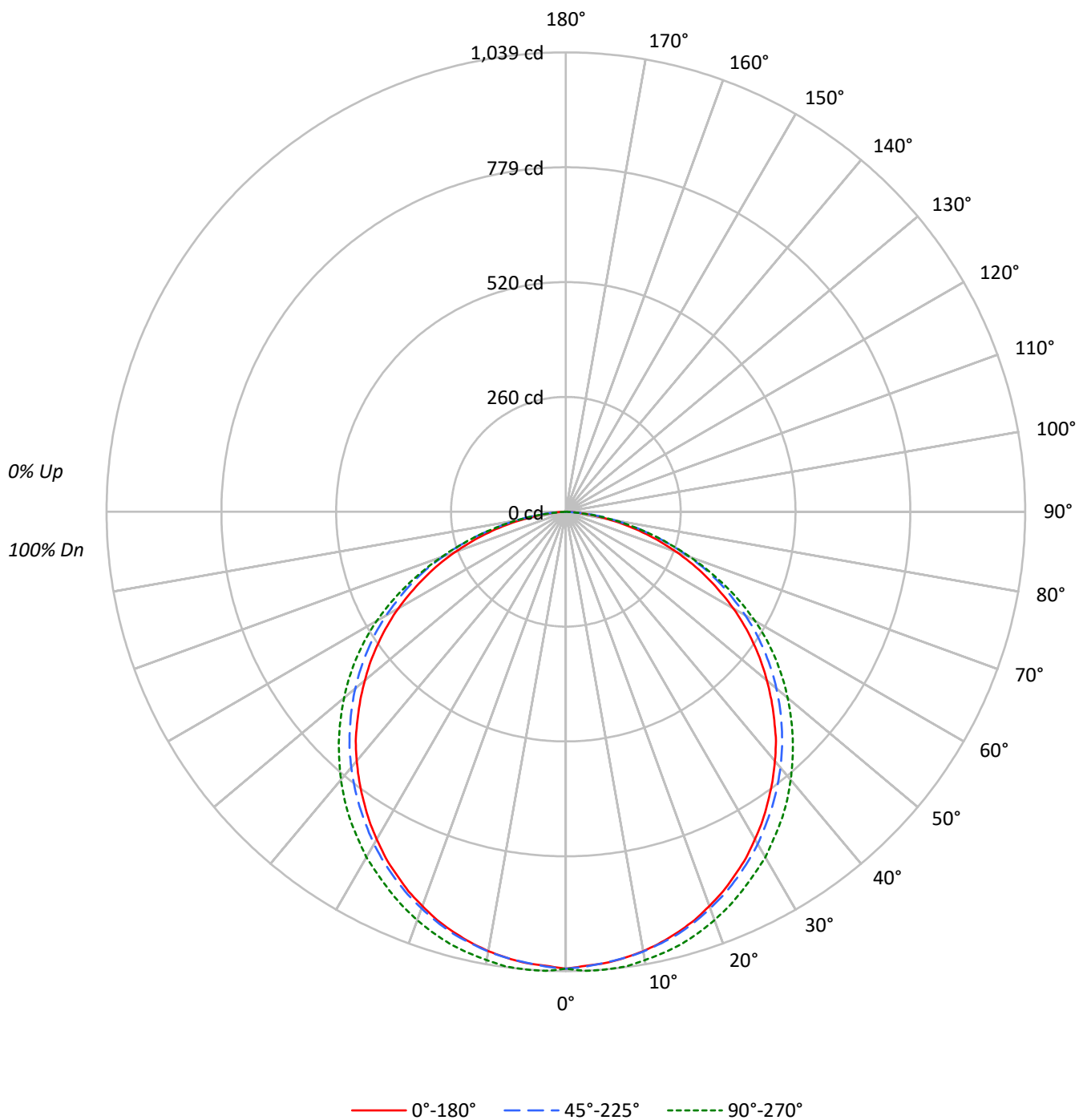
Lumens per Lamp: N/A
Luminaire Lumens: 2977.0 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
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°	3482	3482	3482
5°	3466	3463	3515
10°	3453	3456	3523
15°	3432	3446	3531
20°	3402	3423	3525
25°	3368	3401	3513
30°	3328	3378	3510
35°	3283	3347	3499
40°	3236	3322	3480
45°	3177	3292	3460
50°	3112	3260	3433
55°	3041	3219	3401
60°	2951	3161	3332
65°	2817	3080	3181
70°	2627	2905	2953
75°	2343	2622	2648
80°	1907	2210	2191
85°	1241	1543	1202

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3460 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	3.3
10°-20°	280.5	9.4
20°-30°	424.8	14.3
30°-40°	513.2	17.2
40°-50°	536.1	18.0
50°-60°	490.9	16.5
60°-70°	377.2	12.7
70°-80°	210.0	7.1
80°-90°	46.5	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°	803.2	27.0
0°-40°	1316.4	44.2
0°-60°	2343.3	78.7
0°-90°	2977.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2977.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1034	1034	1034	1034	1034	
5°	1025	1035	1024	1030	1039	97
15°	984	994	988	998	1012	278
25°	906	917	915	928	945	418
35°	798	810	814	833	850	499
45°	667	681	691	711	726	515
55°	518	534	548	567	579	463
65°	353	372	386	394	399	349
75°	180	198	201	201	203	191
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°	1033.5	1033.5	1033.5	1033.5	1033.5
2.5°	1027.7	1037.4	1029.6	1032.5	1039.3
5°	1024.7	1035.4	1023.8	1029.6	1039.3
7.5°	1017.9	1027.7	1017.9	1024.7	1037.4
10°	1009.2	1019.9	1010.1	1017.0	1029.6
12.5°	997.5	1006.2	999.4	1009.2	1021.8
15°	983.9	993.6	987.8	997.5	1012.1
17.5°	968.3	977.1	972.2	984.8	998.5
20°	948.8	958.6	954.7	967.3	982.9
22.5°	929.4	939.1	936.2	948.8	965.4
25°	906.0	916.7	914.8	928.4	944.9
27.5°	882.7	893.4	892.4	908.0	923.5
30°	855.4	866.1	868.1	884.6	902.1
32.5°	828.2	839.8	840.8	859.3	875.8
35°	798.0	809.7	813.6	833.0	850.5
37.5°	767.8	779.5	785.3	803.8	822.3
40°	735.7	748.4	755.2	774.6	791.2
42.5°	703.6	716.2	724.0	743.5	759.1
45°	666.6	681.2	690.9	711.4	726.0
47.5°	630.6	646.2	656.9	676.3	690.9
50°	593.6	610.2	621.8	641.3	654.9
52.5°	556.6	574.2	585.8	604.3	618.0
55°	517.7	534.3	547.9	567.4	579.0
57.5°	478.8	495.3	509.9	527.5	538.2
60°	437.9	455.4	469.1	486.6	494.4
62.5°	395.1	413.6	427.2	440.8	447.7
65°	353.3	371.7	386.3	394.1	399.0
67.5°	310.4	328.9	342.6	346.4	349.4
70°	266.6	285.1	294.9	296.8	299.7
72.5°	222.9	241.3	249.1	249.1	250.1
75°	180.0	198.5	201.4	201.4	203.4
77.5°	138.2	154.7	156.7	156.7	156.7
80°	98.3	110.9	113.9	113.9	112.9
82.5°	62.3	71.0	75.9	72.0	70.1
85°	32.1	38.0	39.9	33.1	31.1
87.5°	9.7	11.7	9.7	5.8	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	16.08	17.73	16.44	18.04	18.35	16.59	18.23	16.95	18.55	18.86
	3H	17.85	19.34	18.23	19.67	20.03	18.38	19.87	18.76	20.20	20.56
	4H	18.47	19.88	18.87	20.22	20.60	19.01	20.42	19.41	20.77	21.14
	6H	18.88	20.18	19.29	20.54	20.93	19.44	20.74	19.85	21.10	21.49
	8H	18.97	20.22	19.40	20.61	21.01	19.54	20.78	19.96	21.17	21.57
	12H	19.02	20.21	19.45	20.59	21.02	19.58	20.77	20.01	21.15	21.58
4H	2H	16.80	18.20	17.20	18.55	18.93	17.20	18.60	17.59	18.95	19.32
	3H	18.79	19.97	19.20	20.37	20.77	19.21	20.39	19.62	20.78	21.18
	4H	19.55	20.62	19.98	21.03	21.46	19.96	21.02	20.39	21.44	21.87
	6H	20.07	21.00	20.53	21.44	21.90	20.50	21.43	20.95	21.87	22.32
	8H	20.21	21.08	20.66	21.52	21.98	20.64	21.51	21.10	21.95	22.42
	12H	20.28	21.06	20.76	21.54	22.00	20.71	21.49	21.19	21.96	22.43
8H	4H	19.88	20.75	20.34	21.19	21.66	20.25	21.12	20.71	21.56	22.02
	6H	20.52	21.24	21.01	21.73	22.20	20.89	21.61	21.38	22.10	22.57
	8H	20.71	21.36	21.22	21.86	22.35	21.08	21.73	21.59	22.24	22.72
	12H	20.83	21.40	21.34	21.89	22.45	21.19	21.76	21.69	22.25	22.81
12H	4H	19.91	20.70	20.39	21.17	21.64	20.27	21.05	20.75	21.53	22.00
	6H	20.57	21.22	21.07	21.72	22.21	20.93	21.58	21.44	22.08	22.57
	8H	20.81	21.38	21.32	21.87	22.43	21.17	21.74	21.68	22.23	22.79