

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: P1584224

Luminaire Tested: 14CZSP-32HE-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584224
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-L935-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 3000 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

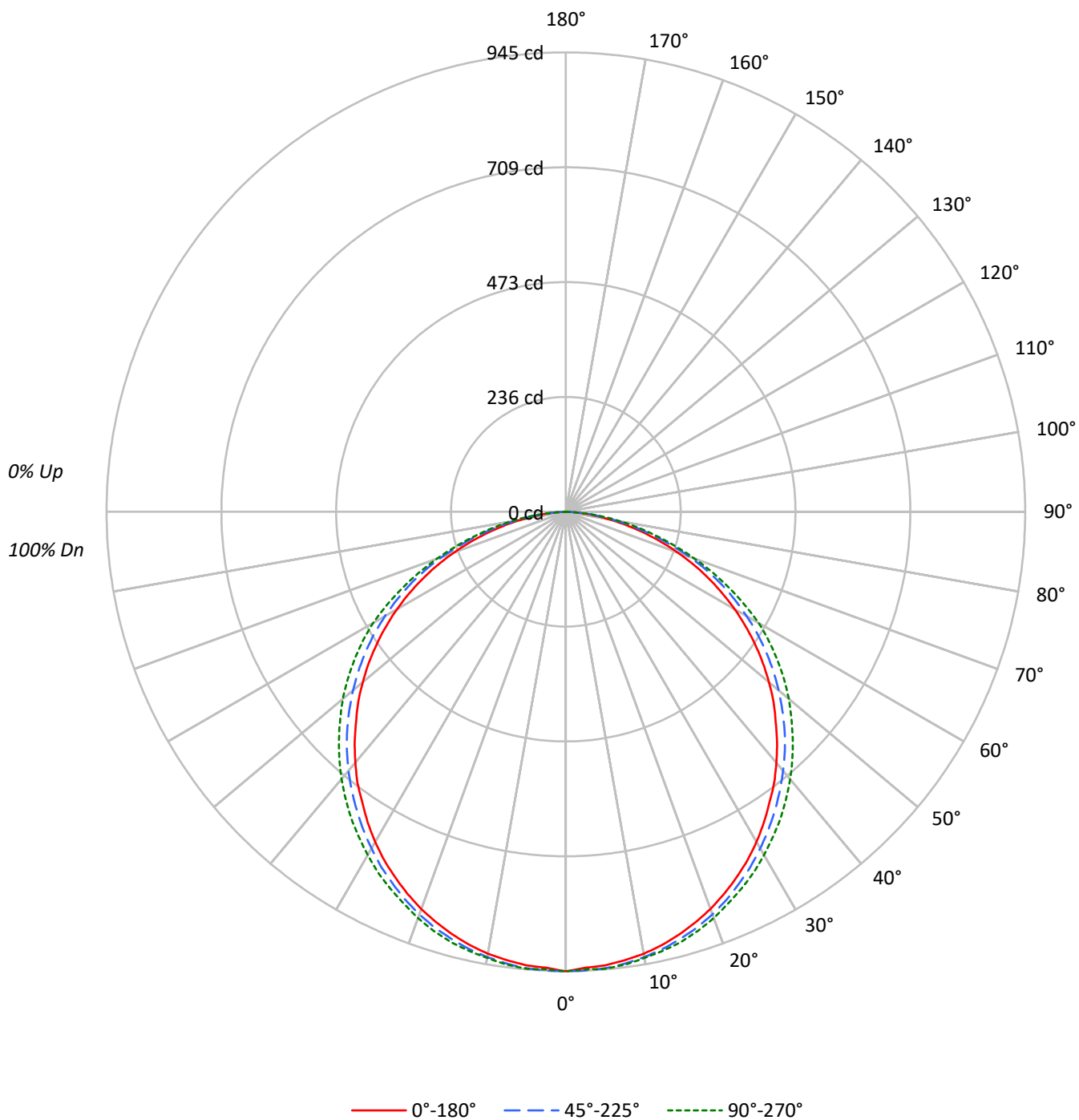
Lumens per Lamp: N/A
Luminaire Lumens: 2733.0 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3185	3185	3185
5°	3168	3188	3191
10°	3159	3182	3189
15°	3141	3173	3195
20°	3119	3161	3189
25°	3087	3136	3180
30°	3052	3112	3173
35°	3003	3084	3167
40°	2964	3059	3159
45°	2908	3033	3146
50°	2860	2996	3140
55°	2791	2954	3119
60°	2706	2895	3088
65°	2585	2816	2960
70°	2410	2659	2778
75°	2152	2398	2535
80°	1764	2022	2216
85°	1183	1477	1647

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3146 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.5	3.3
10°-20°	256.7	9.4
20°-30°	388.7	14.2
30°-40°	469.3	17.2
40°-50°	490.5	17.9
50°-60°	449.5	16.4
60°-70°	346.9	12.7
70°-80°	195.2	7.1
80°-90°	46.7	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°	734.9	26.9
0°-40°	1204.2	44.1
0°-60°	2144.2	78.5
0°-90°	2733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2733.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	945	945	945	945	945	
5°	936	943	942	943	943	89
15°	900	908	910	913	916	254
25°	830	838	844	848	855	383
35°	730	739	750	760	770	457
45°	610	622	636	649	660	472
55°	475	488	503	518	531	424
65°	324	338	353	367	371	320
75°	165	181	184	192	195	175
85°	31	35	38	42	43	39
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	945.3	945.3	945.3	945.3	945.3
2.5°	938.9	946.2	944.5	947.0	942.5
5°	936.5	943.3	942.5	943.3	943.3
7.5°	930.5	937.7	937.3	938.5	939.3
10°	923.2	930.1	930.1	931.3	932.1
12.5°	913.2	920.4	921.2	923.2	924.8
15°	900.3	907.5	909.5	913.2	916.0
17.5°	885.8	893.5	896.7	900.3	903.9
20°	869.7	876.6	881.4	884.2	889.4
22.5°	850.8	858.5	863.7	866.5	872.1
25°	830.3	837.5	843.6	848.0	855.2
27.5°	808.6	815.8	823.1	828.3	836.7
30°	784.4	792.1	799.7	807.8	815.4
32.5°	758.3	767.1	775.6	784.4	792.9
35°	730.1	739.4	749.8	759.9	770.0
37.5°	704.0	712.4	723.3	734.2	744.2
40°	673.8	683.1	695.5	707.6	718.1
42.5°	643.2	653.3	667.0	678.6	689.9
45°	610.3	622.3	636.4	649.3	660.1
47.5°	579.7	590.1	604.2	618.3	629.6
50°	545.5	557.2	571.6	586.5	599.0
52.5°	510.9	523.0	537.8	552.7	565.6
55°	475.1	487.6	502.8	518.5	531.0
57.5°	438.5	451.8	467.4	483.1	495.6
60°	401.5	414.7	429.6	446.9	458.2
62.5°	362.9	377.7	391.8	407.9	414.7
65°	324.2	338.3	353.2	367.3	371.3
67.5°	284.8	299.3	312.6	321.8	327.0
70°	244.6	260.3	269.9	278.8	282.0
72.5°	204.8	220.4	226.1	234.5	237.7
75°	165.3	180.6	184.2	191.9	194.7
77.5°	127.1	141.2	142.4	151.3	153.7
80°	90.9	102.2	104.2	112.6	114.2
82.5°	58.3	66.4	69.2	76.4	78.8
85°	30.6	35.0	38.2	41.8	42.6
87.5°	10.1	12.5	10.5	10.9	10.1
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	15.74	17.39	16.10	17.70	18.02	16.28	17.93	16.64	18.24	18.56
	3H	17.51	19.01	17.89	19.33	19.69	18.13	19.63	18.51	19.95	20.31
	4H	18.14	19.55	18.54	19.89	20.27	18.80	20.21	19.20	20.56	20.93
	6H	18.55	19.85	18.96	20.22	20.61	19.28	20.58	19.69	20.95	21.34
	8H	18.65	19.90	19.08	20.29	20.69	19.43	20.67	19.85	21.06	21.46
	12H	18.70	19.90	19.13	20.28	20.71	19.51	20.70	19.94	21.08	21.51
4H	2H	16.46	17.87	16.86	18.22	18.59	16.88	18.29	17.28	18.64	19.01
	3H	18.46	19.64	18.87	20.03	20.43	18.96	20.14	19.36	20.53	20.93
	4H	19.21	20.28	19.65	20.70	21.13	19.75	20.82	20.18	21.23	21.67
	6H	19.74	20.68	20.19	21.12	21.57	20.35	21.29	20.81	21.73	22.18
	8H	19.88	20.75	20.34	21.20	21.66	20.55	21.42	21.01	21.86	22.33
	12H	19.96	20.75	20.44	21.22	21.69	20.67	21.45	21.15	21.93	22.40
8H	4H	19.55	20.42	20.01	20.87	21.33	20.03	20.90	20.49	21.34	21.81
	6H	20.19	20.92	20.68	21.40	21.88	20.74	21.47	21.23	21.95	22.43
	8H	20.39	21.04	20.90	21.55	22.03	21.00	21.65	21.51	22.15	22.64
	12H	20.52	21.10	21.03	21.59	22.15	21.18	21.75	21.69	22.24	22.80
12H	4H	19.59	20.37	20.07	20.85	21.32	20.05	20.84	20.53	21.31	21.78
	6H	20.25	20.90	20.75	21.40	21.89	20.78	21.43	21.29	21.94	22.42
	8H	20.50	21.07	21.00	21.56	22.12	21.08	21.66	21.59	22.15	22.71