

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: P1584232

Luminaire Tested: 14CZSP-35-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584232
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-35-L830-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 3000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

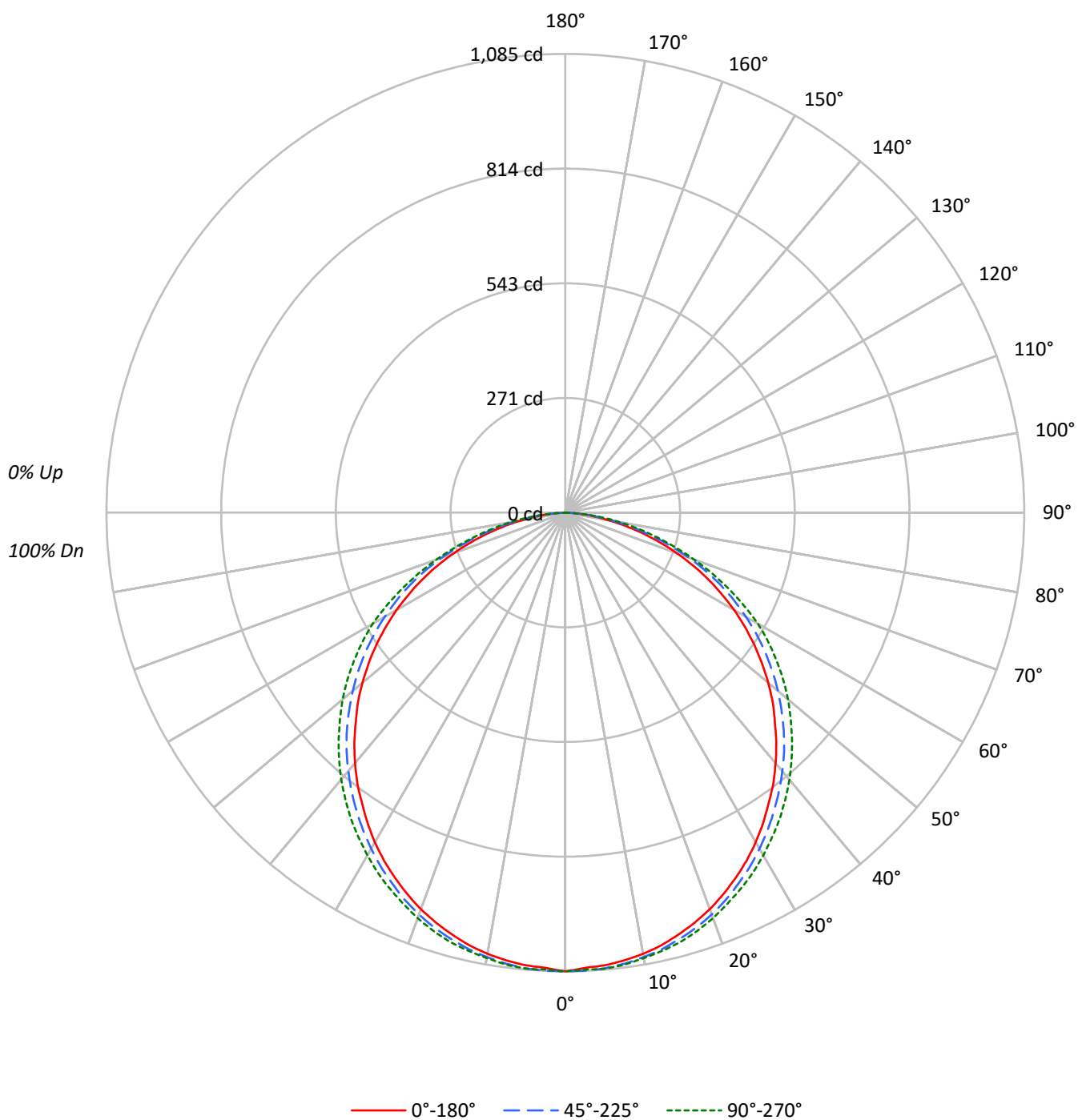
Lumens per Lamp: N/A
Luminaire Lumens: 3137.0 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 23.2
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		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69	65	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		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°	3656	3656	3656
5°	3636	3659	3663
10°	3626	3653	3661
15°	3605	3642	3668
20°	3580	3628	3661
25°	3543	3600	3650
30°	3503	3571	3641
35°	3448	3540	3636
40°	3402	3511	3625
45°	3338	3481	3611
50°	3282	3439	3604
55°	3203	3391	3581
60°	3105	3323	3544
65°	2968	3232	3398
70°	2765	3052	3189
75°	2471	2754	2910
80°	2026	2321	2544
85°	1357	1697	1891

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3611 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.8	3.3
10°-20°	294.6	9.4
20°-30°	446.1	14.2
30°-40°	538.7	17.2
40°-50°	563.0	17.9
50°-60°	515.9	16.4
60°-70°	398.2	12.7
70°-80°	224.0	7.1
80°-90°	53.6	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°	843.5	26.9
0°-40°	1382.2	44.1
0°-60°	2461.1	78.5
0°-90°	3137.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3137.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1085	1085	1085	1085	1085	
5°	1075	1083	1082	1083	1083	102
15°	1033	1042	1044	1048	1051	292
25°	953	961	968	973	982	439
35°	838	849	861	872	884	525
45°	700	714	730	745	758	541
55°	545	560	577	595	610	487
65°	372	388	405	422	426	368
75°	190	207	212	220	224	201
85°	35	40	44	48	49	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1085.1	1085.1	1085.1	1085.1	1085.1
2.5°	1077.7	1086.0	1084.2	1086.9	1081.9
5°	1074.9	1082.8	1081.9	1082.8	1082.8
7.5°	1068.0	1076.3	1075.9	1077.2	1078.2
10°	1059.7	1067.5	1067.5	1068.9	1069.9
12.5°	1048.2	1056.5	1057.4	1059.7	1061.5
15°	1033.4	1041.7	1044.0	1048.2	1051.4
17.5°	1016.8	1025.5	1029.2	1033.4	1037.5
20°	998.3	1006.1	1011.7	1014.9	1020.9
22.5°	976.6	985.4	991.4	994.6	1001.1
25°	953.0	961.3	968.3	973.3	981.7
27.5°	928.1	936.4	944.7	950.7	960.4
30°	900.4	909.2	917.9	927.2	935.9
32.5°	870.4	880.5	890.2	900.4	910.1
35°	838.1	848.7	860.7	872.2	883.8
37.5°	808.0	817.7	830.2	842.7	854.2
40°	773.4	784.0	798.3	812.2	824.2
42.5°	738.3	749.9	765.6	779.0	791.9
45°	700.5	714.3	730.5	745.2	757.7
47.5°	665.4	677.4	693.5	709.7	722.6
50°	626.1	639.5	656.1	673.2	687.5
52.5°	586.4	600.3	617.3	634.4	649.2
55°	545.3	559.6	577.2	595.2	609.5
57.5°	503.3	518.5	536.5	554.6	568.9
60°	460.8	476.1	493.1	513.0	525.9
62.5°	416.5	433.6	449.7	468.2	476.1
65°	372.2	388.3	405.4	421.6	426.2
67.5°	326.9	343.5	358.8	369.4	375.4
70°	280.7	298.7	309.8	320.0	323.7
72.5°	235.0	253.0	259.5	269.2	272.9
75°	189.8	207.3	211.5	220.3	223.5
77.5°	145.9	162.1	163.5	173.6	176.4
80°	104.4	117.3	119.6	129.3	131.1
82.5°	67.0	76.2	79.4	87.7	90.5
85°	35.1	40.2	43.9	48.0	48.9
87.5°	11.5	14.3	12.0	12.5	11.5
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	16.22	17.87	16.58	18.18	18.49	16.76	18.41	17.12	18.72	19.04
	3H	17.99	19.49	18.37	19.81	20.17	18.61	20.11	18.99	20.43	20.79
	4H	18.62	20.03	19.02	20.37	20.75	19.28	20.69	19.68	21.04	21.41
	6H	19.03	20.33	19.44	20.70	21.09	19.76	21.06	20.17	21.43	21.82
	8H	19.13	20.38	19.55	20.77	21.16	19.91	21.15	20.33	21.54	21.94
	12H	19.18	20.38	19.61	20.76	21.19	19.99	21.18	20.42	21.56	21.99
4H	2H	16.94	18.35	17.34	18.70	19.07	17.36	18.77	17.76	19.12	19.49
	3H	18.93	20.12	19.34	20.51	20.91	19.44	20.62	19.84	21.01	21.41
	4H	19.69	20.76	20.12	21.17	21.61	20.23	21.30	20.66	21.71	22.15
	6H	20.22	21.15	20.67	21.59	22.05	20.83	21.77	21.29	22.21	22.66
	8H	20.36	21.23	20.82	21.68	22.14	21.03	21.90	21.48	22.34	22.81
	12H	20.44	21.22	20.92	21.70	22.17	21.15	21.93	21.63	22.41	22.88
8H	4H	20.03	20.90	20.49	21.35	21.81	20.51	21.38	20.97	21.82	22.29
	6H	20.67	21.40	21.16	21.88	22.36	21.22	21.95	21.71	22.43	22.91
	8H	20.87	21.52	21.38	22.03	22.51	21.48	22.13	21.99	22.63	23.12
	12H	21.00	21.57	21.51	22.06	22.62	21.66	22.23	22.16	22.72	23.28
12H	4H	20.07	20.85	20.55	21.33	21.80	20.53	21.32	21.01	21.79	22.26
	6H	20.73	21.38	21.23	21.88	22.37	21.26	21.91	21.76	22.41	22.90
	8H	20.98	21.55	21.48	22.04	22.60	21.56	22.14	22.07	22.63	23.19