

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: P1584540

Luminaire Tested: 14CZSP-A-35-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584540
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-A-35-L850-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 3000 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

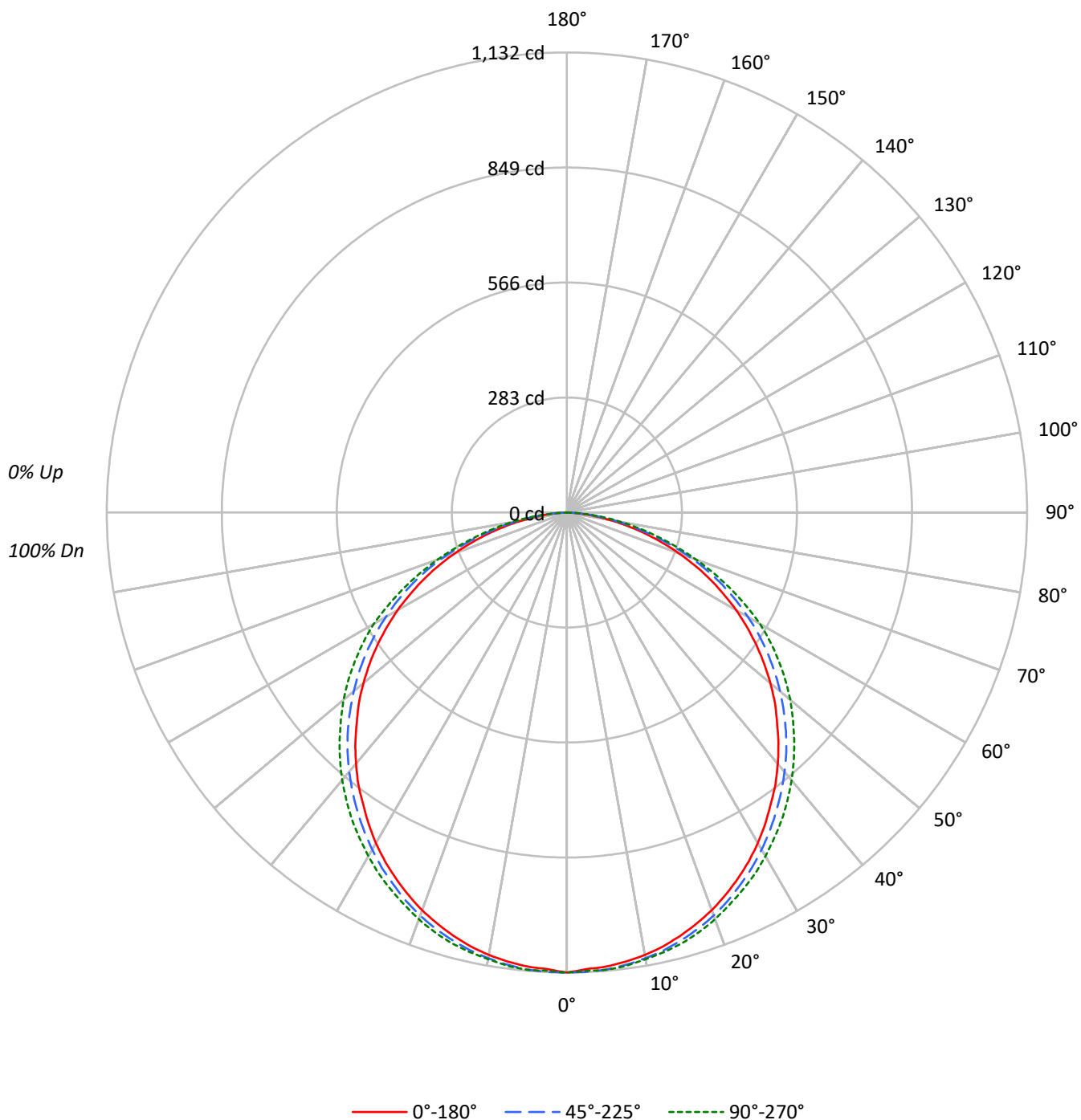
Lumens per Lamp: N/A
Luminaire Lumens: 3273.0 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
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°	3815	3815	3815
5°	3793	3818	3821
10°	3783	3811	3819
15°	3761	3800	3827
20°	3735	3785	3820
25°	3697	3756	3808
30°	3655	3726	3799
35°	3597	3694	3793
40°	3549	3664	3782
45°	3482	3632	3767
50°	3425	3589	3760
55°	3343	3538	3736
60°	3240	3467	3698
65°	3096	3373	3546
70°	2886	3185	3327
75°	2578	2872	3036
80°	2113	2422	2655
85°	1415	1771	1976

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3767 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	3.3
10°-20°	307.4	9.4
20°-30°	465.4	14.2
30°-40°	562.1	17.2
40°-50°	587.4	17.9
50°-60°	538.3	16.4
60°-70°	415.5	12.7
70°-80°	233.7	7.1
80°-90°	55.9	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°	880.1	26.9
0°-40°	1442.1	44.1
0°-60°	2567.8	78.5
0°-90°	3273.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3273.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1132	1132	1132	1132	1132	
5°	1122	1130	1129	1130	1130	107
15°	1078	1087	1089	1094	1097	304
25°	994	1003	1010	1016	1024	458
35°	874	886	898	910	922	548
45°	731	745	762	778	791	565
55°	569	584	602	621	636	508
65°	388	405	423	440	445	384
75°	198	216	221	230	233	210
85°	37	42	46	50	51	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1132.1	1132.1	1132.1	1132.1	1132.1
2.5°	1124.4	1133.1	1131.2	1134.1	1128.8
5°	1121.5	1129.7	1128.8	1129.7	1129.7
7.5°	1114.3	1123.0	1122.5	1123.9	1124.9
10°	1105.6	1113.8	1113.8	1115.3	1116.2
12.5°	1093.6	1102.3	1103.2	1105.6	1107.6
15°	1078.2	1086.8	1089.3	1093.6	1097.0
17.5°	1060.8	1070.0	1073.8	1078.2	1082.5
20°	1041.6	1049.8	1055.5	1058.9	1065.2
22.5°	1018.9	1028.1	1034.3	1037.7	1044.5
25°	994.4	1003.0	1010.2	1015.5	1024.2
27.5°	968.3	977.0	985.7	991.9	1002.1
30°	939.4	948.6	957.7	967.4	976.5
32.5°	908.1	918.7	928.8	939.4	949.5
35°	874.4	885.5	898.0	910.0	922.1
37.5°	843.1	853.2	866.2	879.2	891.3
40°	806.9	818.0	833.0	847.4	859.9
42.5°	770.3	782.4	798.8	812.7	826.2
45°	730.8	745.3	762.1	777.6	790.6
47.5°	694.2	706.7	723.6	740.5	754.0
50°	653.3	667.2	684.6	702.4	717.3
52.5°	611.8	626.3	644.1	661.9	677.4
55°	569.0	583.9	602.2	621.0	635.9
57.5°	525.1	541.0	559.8	578.6	593.5
60°	480.8	496.7	514.5	535.2	548.7
62.5°	434.5	452.4	469.2	488.5	496.7
65°	388.3	405.2	423.0	439.8	444.7
67.5°	341.1	358.4	374.3	385.4	391.7
70°	292.9	311.7	323.3	333.9	337.7
72.5°	245.2	264.0	270.7	280.9	284.7
75°	198.0	216.3	220.6	229.8	233.2
77.5°	152.2	169.1	170.5	181.1	184.0
80°	108.9	122.4	124.8	134.9	136.8
82.5°	69.9	79.5	82.9	91.5	94.4
85°	36.6	41.9	45.8	50.1	51.1
87.5°	12.0	14.9	12.5	13.0	12.0
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	16.36	18.01	16.73	18.33	18.64	16.90	18.55	17.27	18.87	19.18
	3H	18.14	19.63	18.52	19.96	20.32	18.76	20.25	19.14	20.58	20.94
	4H	18.77	20.17	19.16	20.52	20.90	19.43	20.84	19.83	21.18	21.56
	6H	19.17	20.48	19.59	20.84	21.23	19.91	21.21	20.32	21.58	21.97
	8H	19.28	20.52	19.70	20.91	21.31	20.05	21.30	20.48	21.69	22.09
	12H	19.33	20.52	19.76	20.90	21.33	20.14	21.33	20.56	21.71	22.14
4H	2H	17.09	18.50	17.49	18.84	19.22	17.51	18.92	17.91	19.27	19.64
	3H	19.08	20.26	19.49	20.66	21.06	19.58	20.76	19.99	21.16	21.56
	4H	19.84	20.91	20.27	21.32	21.76	20.38	21.45	20.81	21.86	22.30
	6H	20.37	21.30	20.82	21.74	22.20	20.98	21.92	21.43	22.36	22.81
	8H	20.51	21.38	20.97	21.82	22.29	21.17	22.05	21.63	22.49	22.95
	12H	20.59	21.37	21.07	21.85	22.32	21.29	22.08	21.77	22.55	23.02
8H	4H	20.18	21.05	20.64	21.49	21.96	20.65	21.53	21.11	21.97	22.43
	6H	20.82	21.54	21.31	22.03	22.51	21.37	22.09	21.86	22.58	23.06
	8H	21.02	21.67	21.53	22.17	22.66	21.62	22.28	22.13	22.78	23.27
	12H	21.15	21.72	21.65	22.21	22.77	21.81	22.38	22.31	22.87	23.43
12H	4H	20.21	21.00	20.69	21.47	21.94	20.68	21.46	21.16	21.94	22.41
	6H	20.87	21.53	21.38	22.03	22.52	21.40	22.06	21.91	22.56	23.05
	8H	21.12	21.70	21.63	22.19	22.75	21.71	22.29	22.22	22.78	23.34