

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: P1585640

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-35-L850-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 3000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

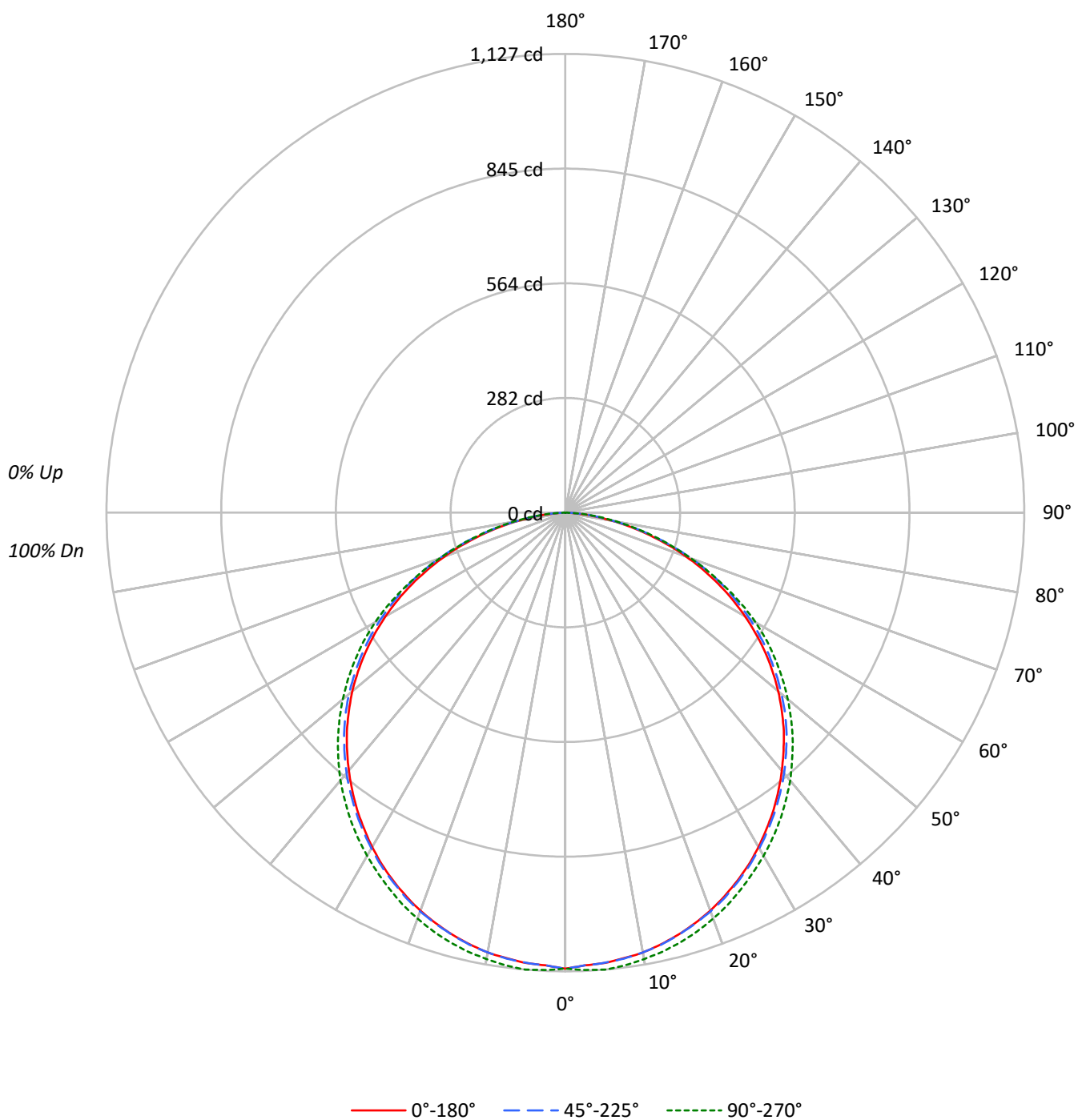
Lumens per Lamp: N/A
Luminaire Lumens: 3306.0 lumens
Efficiency: N/A
Efficacy: 142.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	99	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	77	96	88	82	77	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61	56	52	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	43
6	70	56	47	40	68	55	46	40	53	46	40		52	45	40		50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28		40	33	28		39	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3775	3775	3775
5°	3757	3755	3812
10°	3755	3753	3811
15°	3744	3747	3813
20°	3732	3739	3807
25°	3713	3723	3795
30°	3691	3707	3788
35°	3667	3690	3786
40°	3639	3676	3779
45°	3616	3662	3763
50°	3580	3635	3739
55°	3524	3589	3703
60°	3439	3527	3636
65°	3310	3435	3471
70°	3112	3257	3236
75°	2794	2914	2933
80°	2309	2426	2554
85°	1546	1802	1898

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3763 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	3.2
10°-20°	305.2	9.2
20°-30°	464.8	14.1
30°-40°	565.6	17.1
40°-50°	596.3	18.0
50°-60°	549.2	16.6
60°-70°	424.2	12.8
70°-80°	237.4	7.2
80°-90°	57.2	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°	876.1	26.5
0°-40°	1441.8	43.6
0°-60°	2587.3	78.3
0°-90°	3306.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3306.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1120	1120	1120	1120	1120	
5°	1111	1126	1110	1112	1127	106
15°	1073	1088	1074	1080	1093	303
25°	999	1013	1001	1008	1021	460
35°	892	905	897	908	920	558
45°	759	770	768	780	790	585
55°	600	610	611	624	630	535
65°	415	427	431	435	435	410
75°	215	228	224	223	225	228
85°	40	44	47	52	49	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1120.3	1120.3	1120.3	1120.3	1120.3
2.5°	1113.2	1129.4	1113.2	1115.7	1124.8
5°	1110.7	1126.4	1110.2	1111.7	1126.9
7.5°	1104.1	1120.3	1105.1	1107.1	1121.8
10°	1097.5	1112.2	1097.0	1099.5	1113.7
12.5°	1086.4	1101.6	1087.4	1090.4	1104.6
15°	1073.2	1087.9	1074.2	1080.3	1092.9
17.5°	1058.0	1072.2	1059.0	1066.1	1078.3
20°	1040.8	1054.5	1042.8	1047.9	1061.6
22.5°	1020.6	1034.7	1023.6	1028.1	1042.8
25°	998.8	1013.0	1001.3	1007.9	1020.6
27.5°	975.0	988.7	978.5	986.6	997.8
30°	948.7	961.8	952.7	962.3	973.5
32.5°	920.3	934.5	925.4	936.5	947.7
35°	891.5	904.6	897.0	908.2	920.3
37.5°	860.1	872.7	867.2	878.8	889.9
40°	827.2	841.4	835.8	847.9	859.1
42.5°	793.3	806.9	802.4	815.0	824.6
45°	758.8	769.5	768.5	780.1	789.7
47.5°	720.9	734.0	732.0	743.6	752.3
50°	682.9	693.5	693.5	704.7	713.3
52.5°	641.9	652.5	652.5	665.7	672.8
55°	599.9	610.0	611.0	623.7	630.3
57.5°	555.3	566.0	568.0	580.6	586.7
60°	510.3	520.4	523.4	536.1	539.6
62.5°	463.2	475.3	476.9	487.0	489.0
65°	415.1	427.3	430.8	434.8	435.4
67.5°	366.0	378.7	382.2	382.2	382.2
70°	315.9	327.5	330.6	328.5	328.5
72.5°	265.3	277.9	276.4	274.4	275.4
75°	214.6	227.8	223.8	223.2	225.3
77.5°	166.0	178.7	172.1	176.2	176.7
80°	119.0	128.6	125.0	131.1	131.6
82.5°	76.4	82.5	83.5	88.6	87.1
85°	40.0	44.0	46.6	52.1	49.1
87.5°	12.7	16.7	15.2	17.7	13.7
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	16.65	18.31	17.01	18.62	18.93	16.87	18.52	17.23	18.84	19.15
	3H	18.47	19.97	18.85	20.30	20.66	18.67	20.16	19.04	20.49	20.85
	4H	19.12	20.53	19.52	20.88	21.25	19.30	20.72	19.70	21.06	21.44
	6H	19.55	20.86	19.96	21.22	21.61	19.76	21.07	20.17	21.43	21.82
	8H	19.65	20.91	20.08	21.29	21.69	19.89	21.14	20.31	21.53	21.93
	12H	19.71	20.91	20.14	21.29	21.72	19.97	21.16	20.39	21.55	21.97
4H	2H	17.33	18.74	17.73	19.09	19.46	17.50	18.91	17.90	19.26	19.63
	3H	19.37	20.56	19.78	20.95	21.35	19.51	20.70	19.92	21.09	21.49
	4H	20.15	21.22	20.58	21.64	22.07	20.27	21.34	20.70	21.76	22.19
	6H	20.70	21.64	21.15	22.08	22.53	20.85	21.78	21.30	22.22	22.68
	8H	20.85	21.72	21.31	22.16	22.63	21.02	21.90	21.48	22.34	22.80
	12H	20.93	21.72	21.41	22.19	22.66	21.13	21.92	21.61	22.40	22.87
8H	4H	20.46	21.33	20.92	21.78	22.24	20.57	21.44	21.02	21.88	22.35
	6H	21.12	21.85	21.61	22.33	22.81	21.25	21.98	21.74	22.46	22.94
	8H	21.32	21.98	21.83	22.48	22.97	21.49	22.14	21.99	22.64	23.13
	12H	21.46	22.03	21.96	22.52	23.08	21.66	22.24	22.17	22.73	23.29
12H	4H	20.49	21.28	20.97	21.75	22.22	20.59	21.38	21.07	21.86	22.33
	6H	21.16	21.82	21.67	22.32	22.81	21.29	21.94	21.80	22.45	22.93
	8H	21.42	22.00	21.92	22.49	23.05	21.58	22.16	22.08	22.65	23.21