

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: P1585648

Luminaire Tested: 14CZSP-SB-35-L945-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585648
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-L945-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 3000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

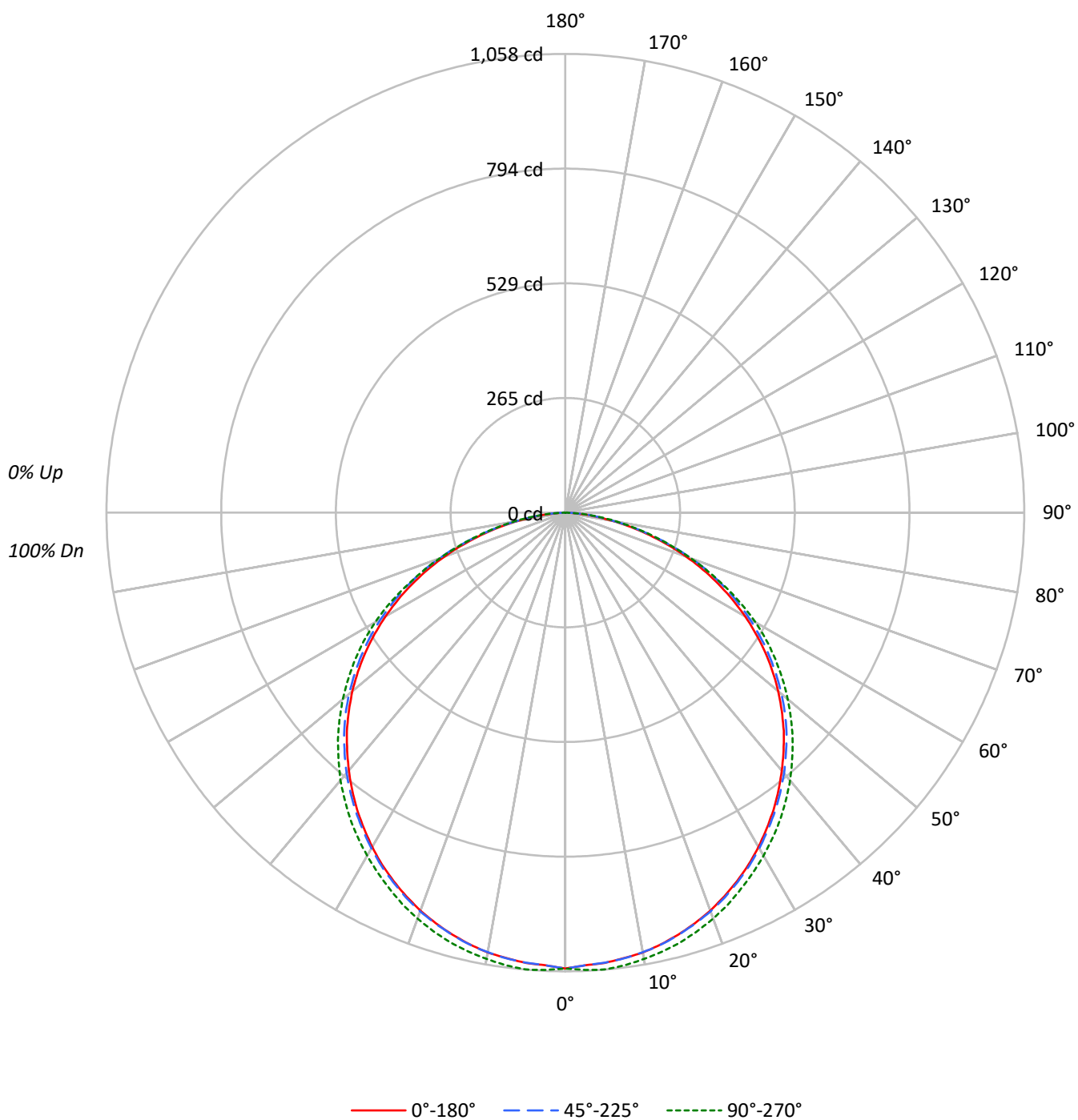
Lumens per Lamp: N/A
Luminaire Lumens: 3103.0 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3543	3543	3543
5°	3526	3525	3578
10°	3525	3523	3577
15°	3514	3517	3578
20°	3503	3510	3573
25°	3486	3494	3561
30°	3464	3479	3555
35°	3442	3464	3553
40°	3415	3451	3547
45°	3394	3437	3532
50°	3360	3412	3510
55°	3307	3369	3475
60°	3227	3311	3413
65°	3106	3224	3258
70°	2921	3057	3038
75°	2623	2734	2752
80°	2167	2278	2396
85°	1450	1690	1782

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3532 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.7	3.2
10°-20°	286.5	9.2
20°-30°	436.2	14.1
30°-40°	530.9	17.1
40°-50°	559.7	18.0
50°-60°	515.5	16.6
60°-70°	398.1	12.8
70°-80°	222.8	7.2
80°-90°	53.7	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°	822.3	26.5
0°-40°	1353.2	43.6
0°-60°	2428.4	78.3
0°-90°	3103.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3103.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1052	1052	1052	1052	1052	
5°	1042	1057	1042	1043	1058	99
15°	1007	1021	1008	1014	1026	284
25°	938	951	940	946	958	432
35°	837	849	842	852	864	523
45°	712	722	721	732	741	549
55°	563	572	574	585	592	503
65°	390	401	404	408	409	385
75°	202	214	210	210	211	214
85°	38	41	44	49	46	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1051.5	1051.5	1051.5	1051.5	1051.5
2.5°	1044.8	1060.0	1044.8	1047.2	1055.8
5°	1042.5	1057.2	1042.0	1043.4	1057.7
7.5°	1036.3	1051.5	1037.2	1039.1	1052.9
10°	1030.1	1043.9	1029.6	1032.0	1045.3
12.5°	1019.7	1033.9	1020.6	1023.5	1036.8
15°	1007.3	1021.1	1008.3	1014.0	1025.8
17.5°	993.1	1006.4	994.0	1000.7	1012.1
20°	976.9	989.7	978.8	983.5	996.4
22.5°	957.9	971.2	960.7	965.0	978.8
25°	937.5	950.8	939.8	946.0	957.9
27.5°	915.1	928.0	918.5	926.1	936.5
30°	890.4	902.8	894.2	903.2	913.7
32.5°	863.8	877.1	868.6	879.0	889.5
35°	836.7	849.1	842.0	852.4	863.8
37.5°	807.3	819.1	813.9	824.8	835.3
40°	776.4	789.7	784.5	795.9	806.3
42.5°	744.5	757.4	753.1	765.0	774.0
45°	712.2	722.2	721.3	732.2	741.2
47.5°	676.6	689.0	687.1	698.0	706.1
50°	641.0	650.9	650.9	661.4	669.5
52.5°	602.5	612.5	612.5	624.8	631.5
55°	563.0	572.5	573.5	585.4	591.6
57.5°	521.2	531.2	533.1	545.0	550.7
60°	478.9	488.4	491.3	503.2	506.5
62.5°	434.8	446.2	447.6	457.1	459.0
65°	389.6	401.0	404.3	408.1	408.6
67.5°	343.5	355.4	358.7	358.7	358.7
70°	296.5	307.4	310.3	308.4	308.4
72.5°	249.0	260.9	259.4	257.5	258.5
75°	201.5	213.8	210.0	209.5	211.4
77.5°	155.8	167.7	161.5	165.3	165.8
80°	111.7	120.7	117.4	123.1	123.5
82.5°	71.7	77.4	78.4	83.2	81.7
85°	37.5	41.3	43.7	48.9	46.1
87.5°	11.9	15.7	14.3	16.6	12.8
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	16.43	18.08	16.79	18.40	18.71	16.65	18.30	17.01	18.62	18.93
	3H	18.25	19.75	18.63	20.08	20.44	18.45	19.94	18.82	20.27	20.63
	4H	18.90	20.31	19.30	20.66	21.03	19.08	20.50	19.48	20.84	21.22
	6H	19.33	20.64	19.74	21.00	21.39	19.54	20.85	19.95	21.21	21.60
	8H	19.43	20.69	19.86	21.07	21.47	19.67	20.92	20.09	21.31	21.71
	12H	19.49	20.69	19.92	21.07	21.50	19.74	20.94	20.17	21.33	21.75
4H	2H	17.11	18.52	17.51	18.87	19.24	17.28	18.69	17.68	19.04	19.41
	3H	19.15	20.34	19.56	20.73	21.13	19.29	20.48	19.70	20.87	21.27
	4H	19.93	21.00	20.36	21.42	21.85	20.05	21.12	20.48	21.54	21.97
	6H	20.48	21.42	20.93	21.86	22.31	20.62	21.56	21.08	22.00	22.46
	8H	20.63	21.50	21.08	21.94	22.41	20.80	21.68	21.26	22.12	22.58
	12H	20.71	21.50	21.19	21.97	22.44	20.91	21.70	21.39	22.18	22.65
8H	4H	20.24	21.11	20.70	21.56	22.02	20.35	21.22	20.80	21.66	22.13
	6H	20.90	21.63	21.39	22.11	22.59	21.03	21.76	21.52	22.24	22.72
	8H	21.10	21.76	21.61	22.26	22.75	21.27	21.92	21.77	22.42	22.91
	12H	21.24	21.81	21.74	22.30	22.86	21.44	22.02	21.95	22.51	23.07
12H	4H	20.27	21.06	20.75	21.53	22.00	20.37	21.16	20.85	21.64	22.11
	6H	20.94	21.60	21.45	22.10	22.59	21.07	21.72	21.58	22.23	22.71
	8H	21.20	21.78	21.70	22.27	22.83	21.36	21.94	21.86	22.43	22.99