

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: P1585700

Luminaire Tested: 14CZSP-SB-43HE-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585700
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-43HE-L850-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

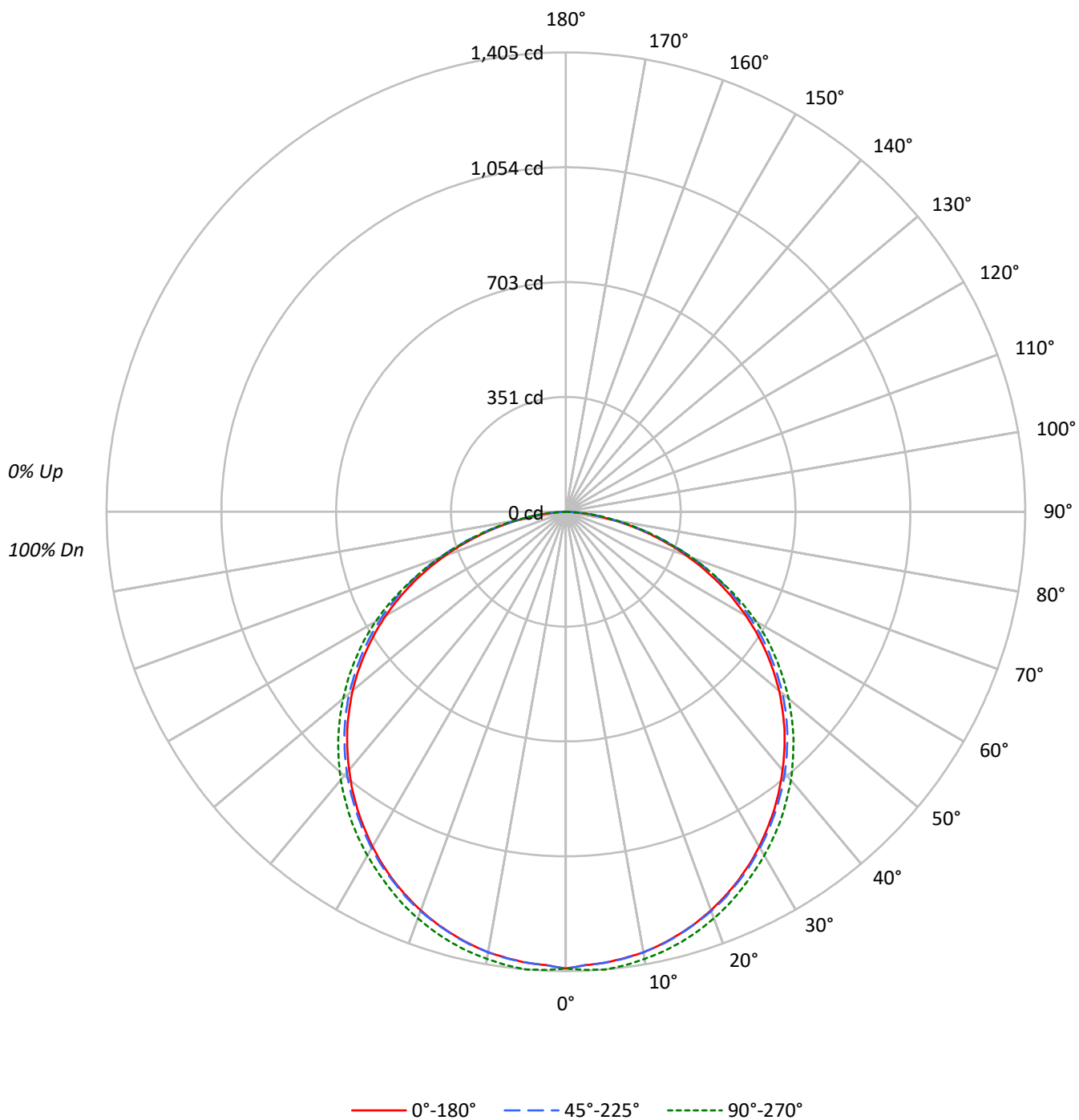
Lumens per Lamp: N/A
Luminaire Lumens: 4122.0 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.9
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°	4707	4707	4707
5°	4684	4682	4752
10°	4682	4680	4751
15°	4668	4672	4754
20°	4653	4662	4746
25°	4630	4642	4731
30°	4602	4622	4723
35°	4572	4601	4720
40°	4536	4584	4711
45°	4508	4566	4692
50°	4464	4533	4662
55°	4394	4475	4616
60°	4287	4398	4534
65°	4127	4282	4328
70°	3881	4061	4035
75°	3484	3632	3657
80°	2878	3025	3184
85°	1929	2246	2366

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4692 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	3.2
10°-20°	380.5	9.2
20°-30°	579.5	14.1
30°-40°	705.2	17.1
40°-50°	743.5	18.0
50°-60°	684.8	16.6
60°-70°	528.9	12.8
70°-80°	295.9	7.2
80°-90°	71.3	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°	1092.4	26.5
0°-40°	1797.6	43.6
0°-60°	3225.9	78.3
0°-90°	4122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4122.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1397	1397	1397	1397	1397	
5°	1385	1404	1384	1386	1405	132
15°	1338	1356	1339	1347	1363	378
25°	1245	1263	1248	1257	1272	574
35°	1112	1128	1118	1132	1148	695
45°	946	959	958	973	985	729
55°	748	761	762	778	786	668
65°	518	533	537	542	543	511
75°	268	284	279	278	281	284
85°	50	55	58	65	61	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1396.8	1396.8	1396.8	1396.8	1396.8
2.5°	1388.0	1408.2	1388.0	1391.1	1402.5
5°	1384.8	1404.4	1384.2	1386.1	1405.0
7.5°	1376.6	1396.8	1377.9	1380.4	1398.7
10°	1368.4	1386.7	1367.8	1370.9	1388.6
12.5°	1354.5	1373.4	1355.8	1359.6	1377.2
15°	1338.1	1356.4	1339.4	1346.9	1362.7
17.5°	1319.2	1336.8	1320.4	1329.3	1344.4
20°	1297.7	1314.7	1300.2	1306.5	1323.6
22.5°	1272.5	1290.1	1276.2	1281.9	1300.2
25°	1245.3	1263.0	1248.5	1256.7	1272.5
27.5°	1215.6	1232.7	1220.1	1230.2	1244.0
30°	1182.8	1199.2	1187.9	1199.9	1213.8
32.5°	1147.5	1165.2	1153.8	1167.7	1181.6
35°	1111.5	1127.9	1118.4	1132.3	1147.5
37.5°	1072.4	1088.1	1081.2	1095.7	1109.6
40°	1031.3	1049.0	1042.1	1057.2	1071.1
42.5°	989.1	1006.1	1000.4	1016.2	1028.2
45°	946.1	959.4	958.1	972.6	984.6
47.5°	898.8	915.2	912.7	927.2	937.9
50°	851.5	864.7	864.7	878.6	889.3
52.5°	800.3	813.6	813.6	830.0	838.8
55°	747.9	760.6	761.8	777.6	785.8
57.5°	692.4	705.7	708.2	724.0	731.5
60°	636.2	648.8	652.6	668.4	672.8
62.5°	577.5	592.7	594.6	607.2	609.7
65°	517.6	532.7	537.1	542.2	542.8
67.5°	456.3	472.1	476.5	476.5	476.5
70°	393.9	408.4	412.2	409.6	409.6
72.5°	330.7	346.5	344.6	342.1	343.4
75°	267.6	284.0	279.0	278.3	280.9
77.5°	207.0	222.8	214.6	219.6	220.3
80°	148.3	160.3	155.9	163.5	164.1
82.5°	95.3	102.9	104.1	110.5	108.6
85°	49.9	54.9	58.1	65.0	61.2
87.5°	15.8	20.8	18.9	22.1	17.0
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	17.42	19.07	17.78	19.39	19.70	17.63	19.29	18.00	19.60	19.92
	3H	19.24	20.74	19.61	21.06	21.42	19.43	20.93	19.81	21.26	21.62
	4H	19.88	21.30	20.28	21.64	22.02	20.07	21.48	20.47	21.83	22.21
	6H	20.31	21.62	20.72	21.99	22.38	20.52	21.83	20.93	22.20	22.59
	8H	20.42	21.67	20.85	22.06	22.46	20.66	21.91	21.08	22.30	22.69
	12H	20.47	21.67	20.90	22.06	22.48	20.73	21.93	21.16	22.31	22.74
4H	2H	18.10	19.51	18.49	19.86	20.23	18.27	19.68	18.66	20.02	20.40
	3H	20.14	21.32	20.55	21.72	22.12	20.28	21.46	20.69	21.86	22.26
	4H	20.92	21.99	21.35	22.40	22.84	21.04	22.11	21.47	22.52	22.96
	6H	21.47	22.40	21.92	22.84	23.30	21.61	22.55	22.06	22.99	23.44
	8H	21.61	22.49	22.07	22.93	23.40	21.79	22.66	22.25	23.11	23.57
	12H	21.70	22.48	22.17	22.96	23.43	21.90	22.69	22.38	23.16	23.63
8H	4H	21.22	22.10	21.68	22.54	23.01	21.33	22.21	21.79	22.65	23.12
	6H	21.88	22.61	22.38	23.10	23.57	22.01	22.74	22.51	23.23	23.70
	8H	22.09	22.74	22.60	23.25	23.73	22.25	22.91	22.76	23.41	23.90
	12H	22.22	22.80	22.73	23.29	23.85	22.43	23.01	22.94	23.50	24.06
12H	4H	21.25	22.04	21.73	22.52	22.99	21.36	22.15	21.84	22.62	23.09
	6H	21.93	22.58	22.44	23.09	23.57	22.05	22.71	22.56	23.22	23.70
	8H	22.18	22.76	22.69	23.25	23.81	22.35	22.92	22.85	23.41	23.97