

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: P1585701

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-43HE-L850
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

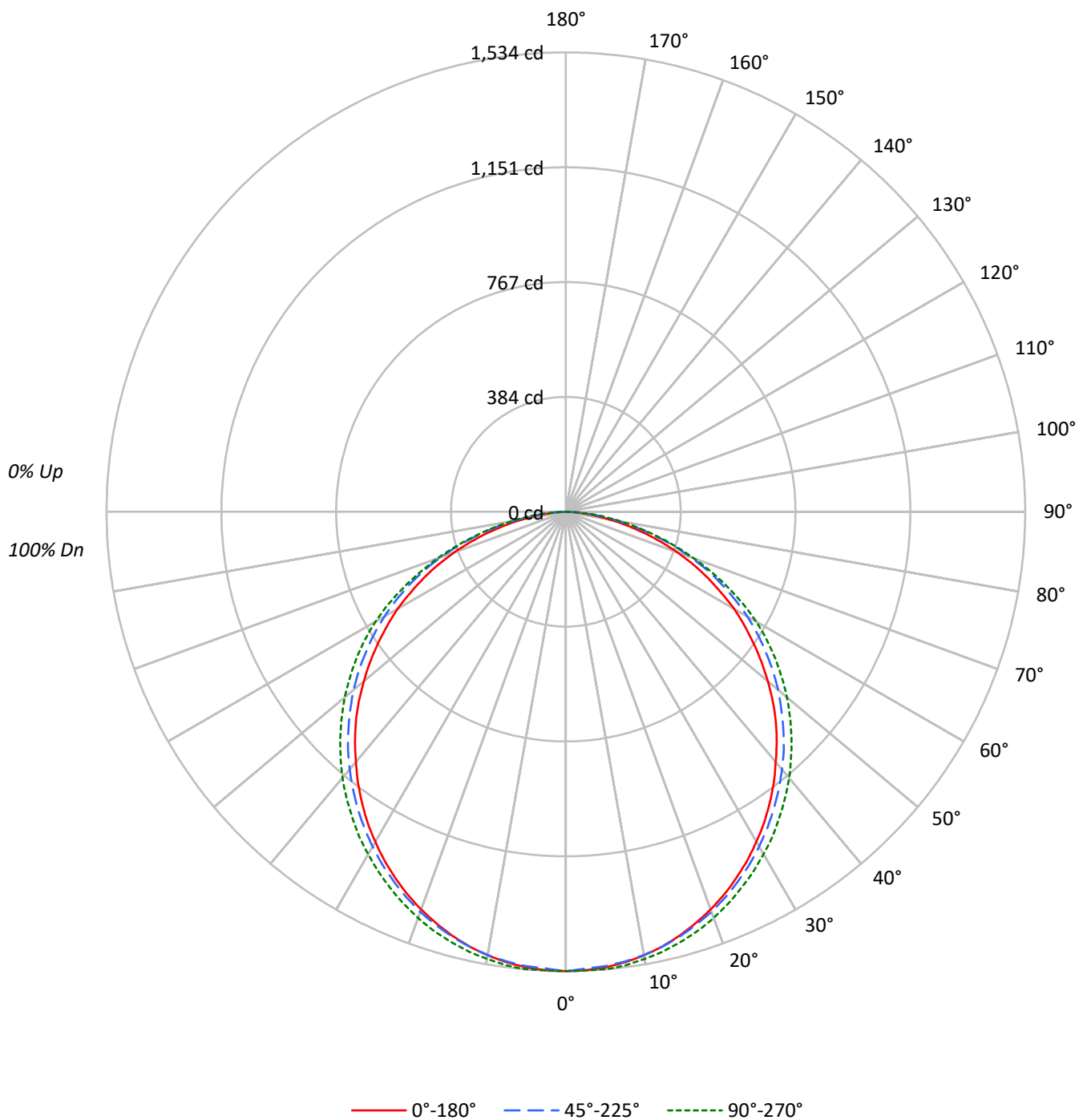
Lumens per Lamp: N/A
Luminaire Lumens: 4432.0 lumens
Efficiency: N/A
Efficacy: 153.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	79	75		82	77	73		79	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	40	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	58	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°	5169	5169	5169
5°	5165	5152	5187
10°	5146	5142	5188
15°	5113	5125	5185
20°	5068	5098	5176
25°	5013	5060	5155
30°	4951	5023	5137
35°	4882	4982	5118
40°	4796	4940	5105
45°	4728	4895	5077
50°	4615	4849	5053
55°	4497	4786	5015
60°	4376	4715	4948
65°	4179	4591	4759
70°	3899	4384	4491
75°	3475	3973	4089
80°	2837	3444	3617
85°	1875	2741	2938

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5077 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.3	3.3
10°-20°	416.2	9.4
20°-30°	630.1	14.2
30°-40°	760.6	17.2
40°-50°	794.3	17.9
50°-60°	726.6	16.4
60°-70°	561.8	12.7
70°-80°	318.0	7.2
80°-90°	79.0	1.8
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°	1191.6	26.9
0°-40°	1952.3	44.0
0°-60°	3473.2	78.4
0°-90°	4432.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4432.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1534	1534	1534	1534	1534	
5°	1527	1538	1523	1524	1534	145
15°	1466	1479	1469	1476	1486	413
25°	1348	1366	1361	1374	1387	621
35°	1187	1203	1211	1232	1244	742
45°	992	1011	1027	1053	1066	764
55°	766	788	815	840	854	684
65°	524	546	576	593	597	517
75°	267	290	305	313	314	283
85°	48	56	71	74	76	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1534.1	1534.1	1534.1	1534.1	1534.1
2.5°	1532.2	1543.0	1526.4	1529.6	1532.8
5°	1527.1	1537.9	1523.2	1524.5	1533.5
7.5°	1517.5	1529.6	1514.3	1516.9	1527.7
10°	1504.1	1516.2	1502.8	1505.4	1516.2
12.5°	1486.9	1499.0	1487.5	1491.3	1503.5
15°	1465.8	1478.6	1469.0	1476.0	1486.2
17.5°	1440.3	1456.2	1446.0	1456.9	1467.1
20°	1413.4	1429.4	1421.7	1431.3	1443.4
22.5°	1382.8	1398.8	1393.0	1403.2	1416.6
25°	1348.3	1365.6	1361.1	1373.9	1386.6
27.5°	1312.6	1329.2	1327.9	1341.9	1355.3
30°	1272.4	1290.2	1290.9	1307.5	1320.2
32.5°	1232.1	1248.1	1251.9	1270.4	1285.1
35°	1186.8	1203.4	1211.1	1231.5	1244.3
37.5°	1140.8	1159.4	1167.7	1190.0	1203.4
40°	1090.4	1111.5	1123.0	1146.6	1160.6
42.5°	1042.5	1061.7	1077.0	1100.6	1113.4
45°	992.1	1011.2	1027.2	1053.4	1065.5
47.5°	937.8	958.9	976.1	1001.7	1015.1
50°	880.4	903.4	925.1	950.0	964.0
52.5°	823.6	845.9	870.8	895.1	909.1
55°	765.5	788.4	814.6	840.1	853.6
57.5°	706.7	729.7	758.4	781.4	795.5
60°	649.3	670.3	699.7	722.7	734.2
62.5°	584.1	608.4	638.4	661.4	667.8
65°	524.1	545.8	575.8	593.1	596.9
67.5°	460.3	482.0	512.0	521.6	527.3
70°	395.8	418.8	445.0	451.4	455.8
72.5°	330.7	354.3	374.7	381.1	385.0
75°	266.9	289.8	305.2	312.8	314.1
77.5°	204.9	226.0	240.0	249.0	249.0
80°	146.2	162.2	177.5	187.1	186.4
82.5°	93.2	105.3	121.3	128.3	132.8
85°	48.5	56.2	70.9	74.1	76.0
87.5°	15.3	19.8	25.5	21.1	20.4
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	17.39	19.04	17.75	19.35	19.67	17.93	19.58	18.29	19.89	20.21
	3H	19.16	20.65	19.54	20.98	21.34	19.79	21.28	20.17	21.61	21.97
	4H	19.78	21.19	20.18	21.54	21.91	20.46	21.87	20.86	22.22	22.59
	6H	20.19	21.49	20.60	21.86	22.25	20.95	22.25	21.36	22.62	23.01
	8H	20.29	21.54	20.71	21.93	22.32	21.10	22.35	21.53	22.74	23.14
	12H	20.34	21.53	20.77	21.91	22.34	21.20	22.40	21.63	22.78	23.21
4H	2H	18.13	19.53	18.52	19.88	20.26	18.55	19.96	18.95	20.30	20.68
	3H	20.12	21.30	20.53	21.70	22.10	20.63	21.81	21.04	22.21	22.60
	4H	20.87	21.94	21.30	22.35	22.79	21.43	22.50	21.86	22.91	23.34
	6H	21.39	22.32	21.84	22.76	23.22	22.04	22.98	22.50	23.42	23.87
	8H	21.52	22.40	21.98	22.84	23.30	22.25	23.12	22.71	23.56	24.03
	12H	21.60	22.39	22.08	22.86	23.33	22.39	23.17	22.86	23.65	24.12
8H	4H	21.22	22.10	21.68	22.54	23.00	21.72	22.59	22.18	23.03	23.50
	6H	21.86	22.58	22.35	23.07	23.54	22.45	23.18	22.94	23.66	24.14
	8H	22.05	22.70	22.56	23.21	23.69	22.72	23.38	23.23	23.88	24.37
	12H	22.17	22.75	22.68	23.24	23.80	22.93	23.51	23.44	24.00	24.56
12H	4H	21.26	22.05	21.74	22.53	22.99	21.74	22.53	22.22	23.00	23.47
	6H	21.92	22.57	22.43	23.08	23.56	22.49	23.15	23.00	23.65	24.14
	8H	22.17	22.75	22.67	23.24	23.80	22.82	23.40	23.33	23.89	24.45