

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: P1585694

Luminaire Tested: 14CZSP-SB-43HE-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585694
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-L835-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

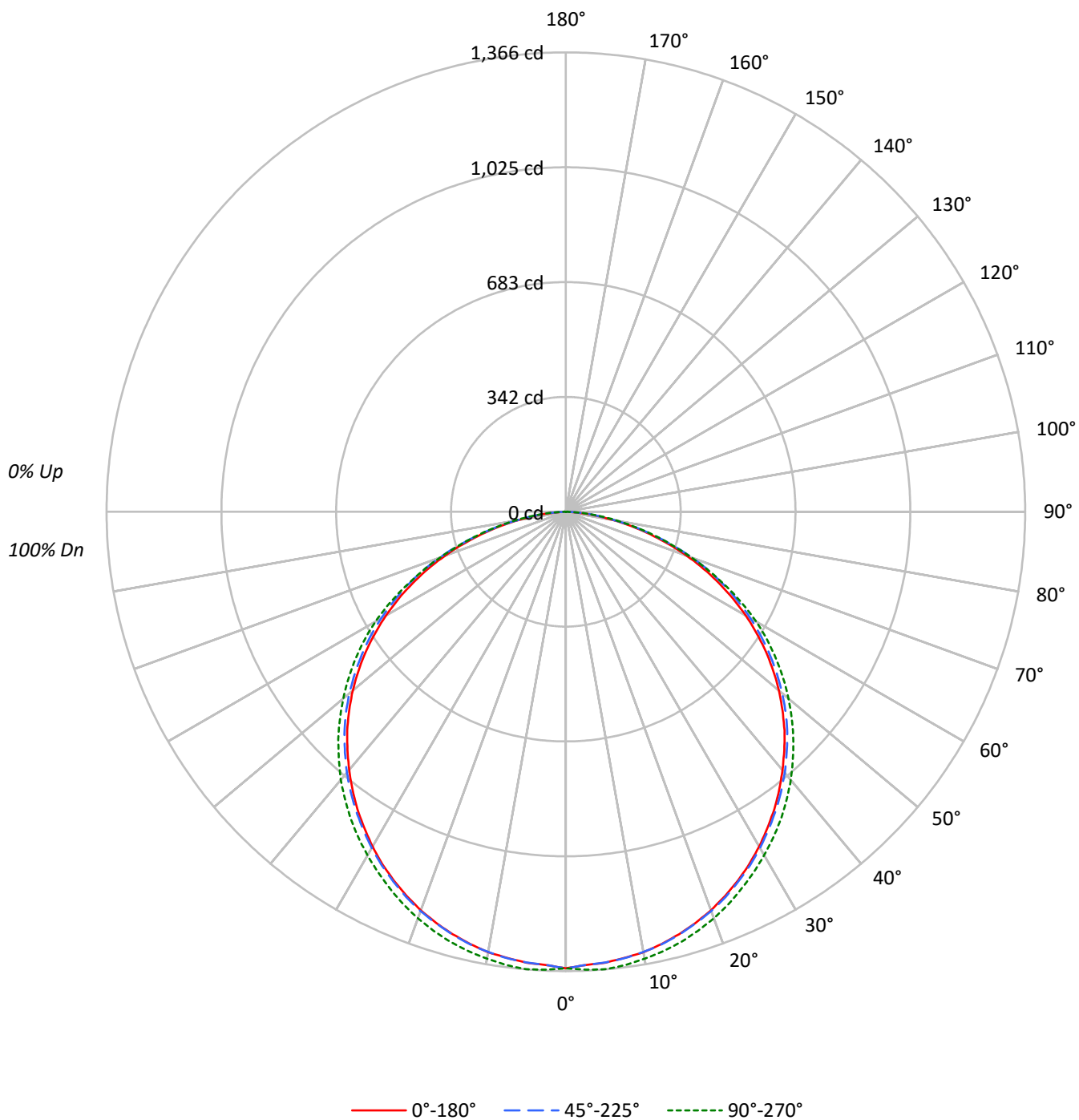
Lumens per Lamp: N/A
Luminaire Lumens: 4006.0 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
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°	4574	4574	4574
5°	4552	4550	4619
10°	4550	4548	4617
15°	4536	4541	4620
20°	4522	4531	4612
25°	4500	4511	4598
30°	4473	4492	4590
35°	4443	4471	4587
40°	4409	4455	4579
45°	4382	4437	4560
50°	4338	4405	4531
55°	4270	4350	4486
60°	4167	4275	4407
65°	4010	4162	4206
70°	3771	3947	3922
75°	3386	3529	3554
80°	2798	2940	3095
85°	1875	2181	2300

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4560 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.7	3.2
10°-20°	369.8	9.2
20°-30°	563.2	14.1
30°-40°	685.4	17.1
40°-50°	722.6	18.0
50°-60°	665.5	16.6
60°-70°	514.0	12.8
70°-80°	287.6	7.2
80°-90°	69.3	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°	1061.6	26.5
0°-40°	1747.0	43.6
0°-60°	3135.1	78.3
0°-90°	4006.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4006.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1358	1358	1358	1358	1358	
5°	1346	1365	1345	1347	1366	128
15°	1300	1318	1302	1309	1324	367
25°	1210	1227	1213	1221	1237	558
35°	1080	1096	1087	1100	1115	676
45°	920	932	931	945	957	709
55°	727	739	740	756	764	649
65°	503	518	522	527	528	497
75°	260	276	271	270	273	276
85°	48	53	56	63	60	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1357.5	1357.5	1357.5	1357.5	1357.5
2.5°	1348.9	1368.5	1348.9	1352.0	1363.0
5°	1345.8	1364.8	1345.2	1347.1	1365.5
7.5°	1337.9	1357.5	1339.1	1341.5	1359.3
10°	1329.9	1347.7	1329.3	1332.3	1349.5
12.5°	1316.4	1334.8	1317.6	1321.3	1338.5
15°	1300.4	1318.2	1301.7	1309.0	1324.4
17.5°	1282.0	1299.2	1283.3	1291.9	1306.6
20°	1261.2	1277.7	1263.6	1269.8	1286.3
22.5°	1236.6	1253.8	1240.3	1245.8	1263.6
25°	1210.3	1227.4	1213.3	1221.3	1236.6
27.5°	1181.4	1198.0	1185.7	1195.5	1209.0
30°	1149.5	1165.5	1154.4	1166.1	1179.6
32.5°	1115.2	1132.4	1121.3	1134.8	1148.3
35°	1080.2	1096.2	1087.0	1100.5	1115.2
37.5°	1042.2	1057.5	1050.8	1064.9	1078.4
40°	1002.3	1019.5	1012.7	1027.5	1041.0
42.5°	961.2	977.8	972.3	987.6	999.3
45°	919.5	932.4	931.2	945.3	956.9
47.5°	873.5	889.5	887.0	901.1	911.5
50°	827.5	840.4	840.4	853.9	864.3
52.5°	777.8	790.7	790.7	806.6	815.2
55°	726.9	739.2	740.4	755.7	763.7
57.5°	672.9	685.8	688.3	703.6	710.9
60°	618.3	630.6	634.3	649.6	653.9
62.5°	561.3	576.0	577.8	590.1	592.6
65°	503.0	517.7	522.0	526.9	527.5
67.5°	443.5	458.8	463.1	463.1	463.1
70°	382.8	396.9	400.6	398.1	398.1
72.5°	321.4	336.8	334.9	332.5	333.7
75°	260.1	276.0	271.1	270.5	273.0
77.5°	201.2	216.5	208.6	213.5	214.1
80°	144.2	155.8	151.5	158.9	159.5
82.5°	92.6	100.0	101.2	107.3	105.5
85°	48.5	53.4	56.4	63.2	59.5
87.5°	15.3	20.2	18.4	21.5	16.6
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	17.32	18.97	17.68	19.29	19.60	17.53	19.19	17.90	19.50	19.82
	3H	19.14	20.64	19.51	20.96	21.32	19.33	20.83	19.71	21.16	21.52
	4H	19.78	21.20	20.18	21.54	21.92	19.97	21.38	20.37	21.73	22.11
	6H	20.21	21.52	20.62	21.89	22.28	20.42	21.73	20.84	22.10	22.49
	8H	20.32	21.57	20.75	21.96	22.36	20.56	21.81	20.98	22.20	22.59
	12H	20.38	21.57	20.80	21.96	22.38	20.63	21.83	21.06	22.21	22.64
4H	2H	18.00	19.41	18.39	19.76	20.13	18.17	19.58	18.56	19.93	20.30
	3H	20.04	21.22	20.45	21.62	22.02	20.18	21.37	20.59	21.76	22.16
	4H	20.82	21.89	21.25	22.30	22.74	20.94	22.01	21.37	22.42	22.86
	6H	21.37	22.30	21.82	22.74	23.20	21.51	22.45	21.97	22.89	23.34
	8H	21.51	22.39	21.97	22.83	23.30	21.69	22.56	22.15	23.01	23.47
	12H	21.60	22.39	22.08	22.86	23.33	21.80	22.59	22.28	23.06	23.53
8H	4H	21.12	22.00	21.58	22.44	22.91	21.23	22.11	21.69	22.55	23.02
	6H	21.78	22.51	22.28	23.00	23.47	21.91	22.64	22.41	23.13	23.61
	8H	21.99	22.64	22.50	23.15	23.63	22.15	22.81	22.66	23.31	23.80
	12H	22.12	22.70	22.63	23.19	23.75	22.33	22.91	22.84	23.40	23.96
12H	4H	21.16	21.94	21.63	22.42	22.89	21.26	22.05	21.74	22.52	22.99
	6H	21.83	22.48	22.34	22.99	23.48	21.96	22.61	22.46	23.12	23.60
	8H	22.09	22.66	22.59	23.15	23.71	22.25	22.82	22.75	23.31	23.87