

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: P1585692

Luminaire Tested: 14CZSP-SB-43HE-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585692
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-L830-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

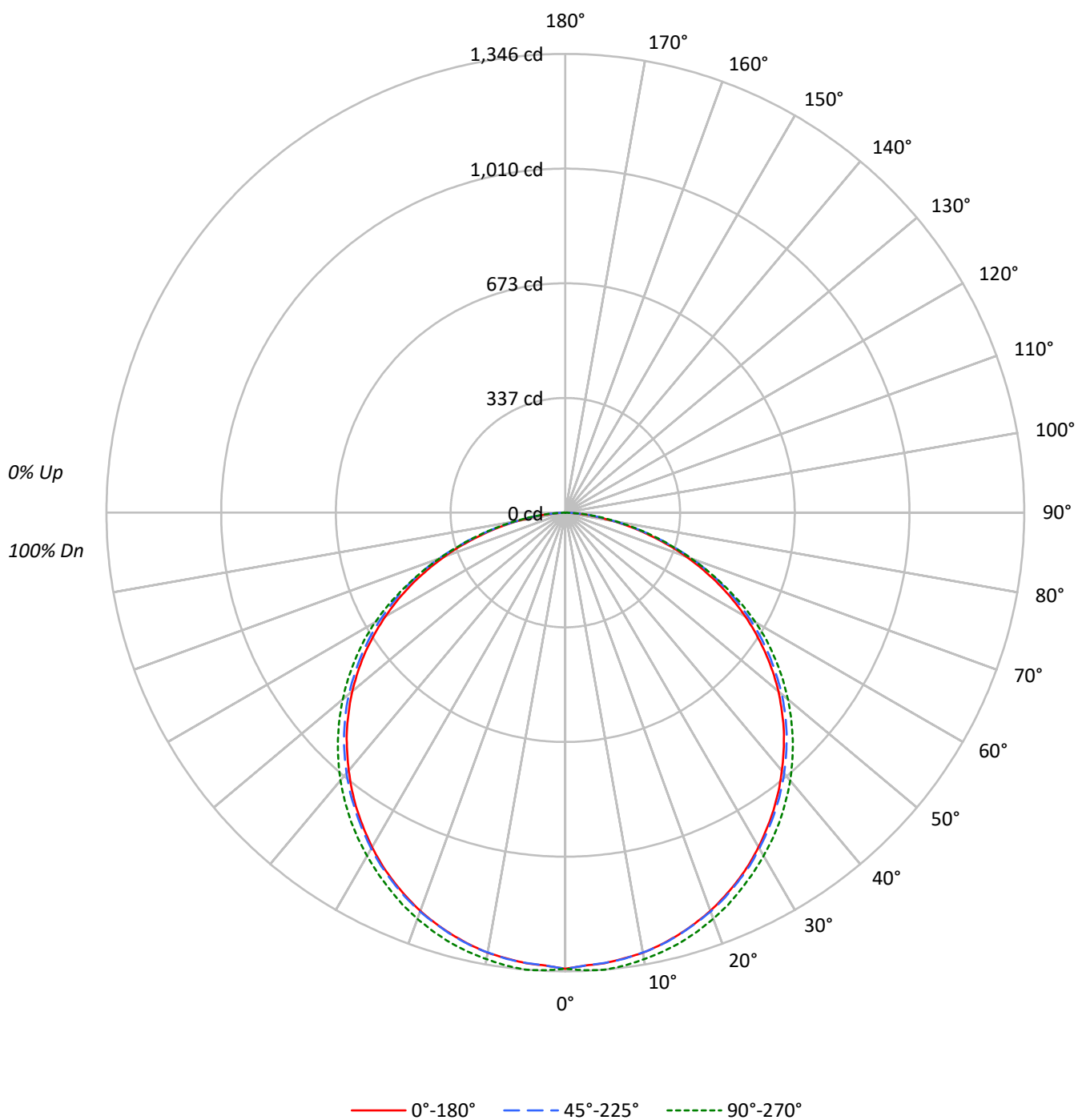
Lumens per Lamp: N/A
Luminaire Lumens: 3950.0 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	4510	4510	4510
5°	4489	4486	4554
10°	4487	4485	4553
15°	4473	4477	4555
20°	4459	4468	4548
25°	4437	4448	4534
30°	4410	4429	4525
35°	4381	4409	4523
40°	4347	4393	4515
45°	4321	4375	4496
50°	4277	4344	4467
55°	4210	4289	4424
60°	4109	4215	4345
65°	3955	4104	4148
70°	3718	3892	3867
75°	3339	3480	3505
80°	2757	2899	3052
85°	1848	2150	2269

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4496 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.9	3.2
10°-20°	364.7	9.2
20°-30°	555.3	14.1
30°-40°	675.8	17.1
40°-50°	712.4	18.0
50°-60°	656.2	16.6
60°-70°	506.8	12.8
70°-80°	283.6	7.2
80°-90°	68.3	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°	1046.8	26.5
0°-40°	1722.6	43.6
0°-60°	3091.2	78.3
0°-90°	3950.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3950.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1338	1338	1338	1338	1338	
5°	1327	1346	1326	1328	1346	126
15°	1282	1300	1284	1291	1306	362
25°	1193	1210	1196	1204	1219	550
35°	1065	1081	1072	1085	1100	666
45°	907	919	918	932	944	699
55°	717	729	730	745	753	640
65°	496	510	515	520	520	490
75°	256	272	267	267	269	272
85°	48	53	56	62	59	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1338.5	1338.5	1338.5	1338.5	1338.5
2.5°	1330.0	1349.4	1330.0	1333.1	1344.0
5°	1327.0	1345.8	1326.4	1328.2	1346.4
7.5°	1319.2	1338.5	1320.4	1322.8	1340.3
10°	1311.3	1328.8	1310.7	1313.7	1330.6
12.5°	1298.0	1316.1	1299.2	1302.8	1319.8
15°	1282.3	1299.8	1283.5	1290.7	1305.8
17.5°	1264.1	1281.1	1265.3	1273.8	1288.3
20°	1243.6	1259.9	1246.0	1252.0	1268.3
22.5°	1219.4	1236.3	1223.0	1228.4	1246.0
25°	1193.3	1210.3	1196.4	1204.2	1219.4
27.5°	1164.9	1181.3	1169.2	1178.8	1192.1
30°	1133.5	1149.2	1138.3	1149.8	1163.1
32.5°	1099.6	1116.5	1105.6	1119.0	1132.3
35°	1065.1	1080.8	1071.8	1085.1	1099.6
37.5°	1027.6	1042.7	1036.1	1050.0	1063.3
40°	988.3	1005.2	998.6	1013.1	1026.4
42.5°	947.8	964.1	958.7	973.8	985.3
45°	906.7	919.4	918.1	932.1	943.5
47.5°	861.3	877.0	874.6	888.5	898.8
50°	815.9	828.6	828.6	841.9	852.2
52.5°	766.9	779.6	779.6	795.4	803.8
55°	716.7	728.8	730.0	745.2	753.0
57.5°	663.5	676.2	678.6	693.8	701.0
60°	609.7	621.8	625.4	640.5	644.8
62.5°	553.4	567.9	569.8	581.9	584.3
65°	496.0	510.5	514.7	519.6	520.2
67.5°	437.3	452.4	456.7	456.7	456.7
70°	377.4	391.3	395.0	392.5	392.5
72.5°	316.9	332.1	330.2	327.8	329.0
75°	256.5	272.2	267.3	266.7	269.2
77.5°	198.4	213.5	205.6	210.5	211.1
80°	142.1	153.6	149.4	156.7	157.3
82.5°	91.3	98.6	99.8	105.8	104.0
85°	47.8	52.6	55.6	62.3	58.7
87.5°	15.1	20.0	18.1	21.2	16.3
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	17.27	18.92	17.63	19.24	19.55	17.49	19.14	17.85	19.45	19.77
	3H	19.09	20.59	19.47	20.91	21.27	19.29	20.78	19.66	21.11	21.47
	4H	19.74	21.15	20.13	21.50	21.87	19.92	21.34	20.32	21.68	22.06
	6H	20.16	21.47	20.57	21.84	22.23	20.38	21.69	20.79	22.05	22.44
	8H	20.27	21.52	20.70	21.91	22.31	20.51	21.76	20.93	22.15	22.55
	12H	20.33	21.53	20.76	21.91	22.34	20.58	21.78	21.01	22.16	22.59
4H	2H	17.95	19.36	18.35	19.71	20.08	18.12	19.53	18.52	19.88	20.25
	3H	19.99	21.17	20.40	21.57	21.97	20.13	21.32	20.54	21.71	22.11
	4H	20.77	21.84	21.20	22.25	22.69	20.89	21.96	21.32	22.37	22.81
	6H	21.32	22.26	21.77	22.70	23.15	21.46	22.40	21.92	22.84	23.30
	8H	21.46	22.34	21.92	22.78	23.25	21.64	22.52	22.10	22.96	23.42
	12H	21.55	22.34	22.03	22.81	23.28	21.75	22.54	22.23	23.02	23.48
8H	4H	21.08	21.95	21.54	22.39	22.86	21.18	22.06	21.64	22.50	22.97
	6H	21.73	22.46	22.23	22.95	23.43	21.87	22.59	22.36	23.08	23.56
	8H	21.94	22.59	22.45	23.10	23.58	22.10	22.76	22.61	23.26	23.75
	12H	22.08	22.65	22.58	23.14	23.70	22.28	22.86	22.79	23.35	23.91
12H	4H	21.11	21.90	21.59	22.37	22.84	21.21	22.00	21.69	22.48	22.94
	6H	21.78	22.44	22.29	22.94	23.43	21.91	22.56	22.42	23.07	23.55
	8H	22.04	22.61	22.54	23.10	23.66	22.20	22.77	22.70	23.26	23.82