

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: P1585702

Luminaire Tested: 14CZSP-SB-43HE-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585702
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-L930-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

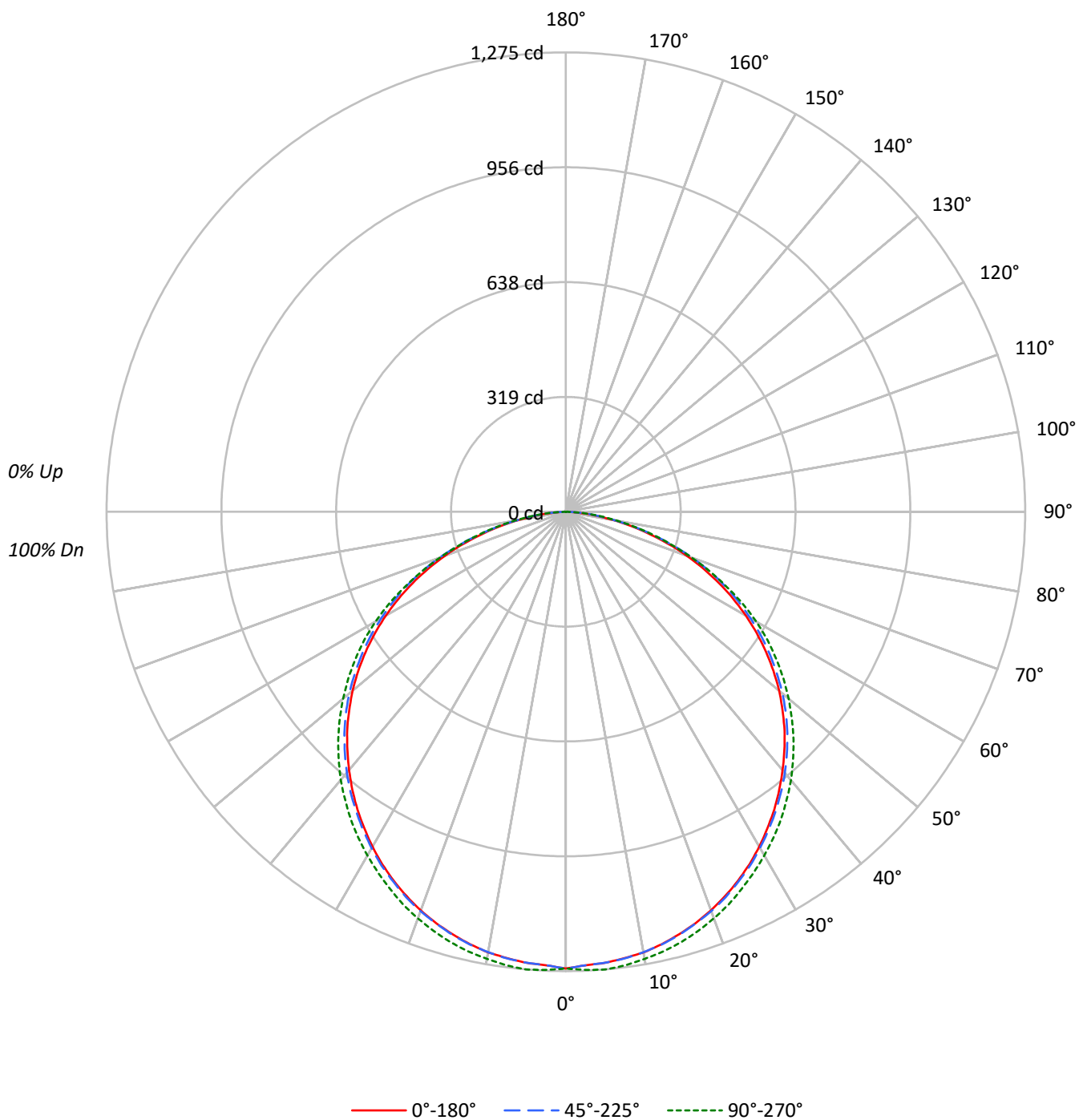
Lumens per Lamp: N/A
Luminaire Lumens: 3741.0 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	4272	4272	4272
5°	4251	4249	4313
10°	4249	4247	4312
15°	4236	4241	4315
20°	4223	4231	4307
25°	4202	4213	4293
30°	4177	4195	4286
35°	4150	4176	4284
40°	4117	4160	4276
45°	4092	4144	4258
50°	4051	4114	4231
55°	3988	4062	4190
60°	3891	3992	4115
65°	3745	3887	3928
70°	3522	3686	3663
75°	3162	3296	3319
80°	2612	2746	2889
85°	1751	2037	2150

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4258 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.1	3.2
10°-20°	345.4	9.2
20°-30°	525.9	14.1
30°-40°	640.1	17.1
40°-50°	674.8	18.0
50°-60°	621.5	16.6
60°-70°	480.0	12.8
70°-80°	268.6	7.2
80°-90°	64.7	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°	991.4	26.5
0°-40°	1631.5	43.6
0°-60°	2927.7	78.3
0°-90°	3741.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3741.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1268	1268	1268	1268	1268	
5°	1257	1275	1256	1258	1275	119
15°	1214	1231	1216	1222	1237	343
25°	1130	1146	1133	1140	1155	521
35°	1009	1024	1015	1028	1041	631
45°	859	871	870	883	894	662
55°	679	690	691	706	713	606
65°	470	484	488	492	493	464
75°	243	258	253	253	255	258
85°	45	50	53	59	56	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1267.7	1267.7	1267.7	1267.7	1267.7
2.5°	1259.7	1278.0	1259.7	1262.5	1272.8
5°	1256.8	1274.6	1256.2	1257.9	1275.1
7.5°	1249.4	1267.7	1250.5	1252.8	1269.4
10°	1241.9	1258.5	1241.3	1244.2	1260.2
12.5°	1229.3	1246.5	1230.5	1233.9	1249.9
15°	1214.4	1231.0	1215.6	1222.4	1236.8
17.5°	1197.2	1213.3	1198.4	1206.4	1220.1
20°	1177.8	1193.2	1180.0	1185.8	1201.2
22.5°	1154.8	1170.9	1158.3	1163.4	1180.0
25°	1130.2	1146.2	1133.1	1140.5	1154.8
27.5°	1103.3	1118.7	1107.3	1116.5	1129.1
30°	1073.5	1088.4	1078.1	1089.0	1101.6
32.5°	1041.4	1057.5	1047.1	1059.7	1072.4
35°	1008.8	1023.7	1015.1	1027.7	1041.4
37.5°	973.2	987.6	981.3	994.4	1007.0
40°	936.0	952.1	945.8	959.5	972.1
42.5°	897.6	913.1	907.9	922.3	933.2
45°	858.7	870.7	869.6	882.7	893.6
47.5°	815.7	830.6	828.3	841.5	851.2
50°	772.8	784.8	784.8	797.4	807.1
52.5°	726.4	738.4	738.4	753.3	761.3
55°	678.8	690.3	691.4	705.7	713.2
57.5°	628.4	640.4	642.7	657.0	663.9
60°	577.4	588.9	592.3	606.6	610.6
62.5°	524.1	537.9	539.6	551.1	553.4
65°	469.7	483.5	487.5	492.1	492.6
67.5°	414.2	428.5	432.5	432.5	432.5
70°	357.5	370.6	374.1	371.8	371.8
72.5°	300.2	314.5	312.8	310.5	311.6
75°	242.9	257.8	253.2	252.6	254.9
77.5°	187.9	202.2	194.8	199.3	199.9
80°	134.6	145.5	141.5	148.4	148.9
82.5°	86.5	93.4	94.5	100.2	98.5
85°	45.3	49.8	52.7	59.0	55.6
87.5°	14.3	18.9	17.2	20.0	15.5
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	17.08	18.73	17.44	19.05	19.36	17.30	18.95	17.66	19.27	19.58
	3H	18.90	20.40	19.28	20.73	21.08	19.10	20.59	19.47	20.92	21.28
	4H	19.55	20.96	19.94	21.31	21.68	19.73	21.15	20.13	21.49	21.87
	6H	19.98	21.28	20.39	21.65	22.04	20.19	21.50	20.60	21.86	22.25
	8H	20.08	21.34	20.51	21.72	22.12	20.32	21.57	20.74	21.96	22.36
	12H	20.14	21.34	20.57	21.72	22.15	20.39	21.59	20.82	21.97	22.40
4H	2H	17.76	19.17	18.16	19.52	19.89	17.93	19.34	18.33	19.69	20.06
	3H	19.80	20.99	20.21	21.38	21.78	19.94	21.13	20.35	21.52	21.92
	4H	20.58	21.65	21.01	22.06	22.50	20.70	21.77	21.13	22.19	22.62
	6H	21.13	22.07	21.58	22.51	22.96	21.27	22.21	21.73	22.65	23.11
	8H	21.28	22.15	21.73	22.59	23.06	21.45	22.33	21.91	22.77	23.23
	12H	21.36	22.15	21.84	22.62	23.09	21.56	22.35	22.04	22.83	23.29
8H	4H	20.89	21.76	21.35	22.21	22.67	20.99	21.87	21.45	22.31	22.78
	6H	21.55	22.28	22.04	22.76	23.24	21.68	22.41	22.17	22.89	23.37
	8H	21.75	22.41	22.26	22.91	23.40	21.92	22.57	22.42	23.07	23.56
	12H	21.89	22.46	22.39	22.95	23.51	22.09	22.67	22.60	23.16	23.72
12H	4H	20.92	21.71	21.40	22.18	22.65	21.02	21.81	21.50	22.29	22.76
	6H	21.59	22.25	22.10	22.75	23.24	21.72	22.37	22.23	22.88	23.36
	8H	21.85	22.43	22.35	22.92	23.48	22.01	22.59	22.51	23.08	23.64