

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: P1585708

Luminaire Tested: 14CZSP-SB-43HE-L945-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585708
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-L945-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 4000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

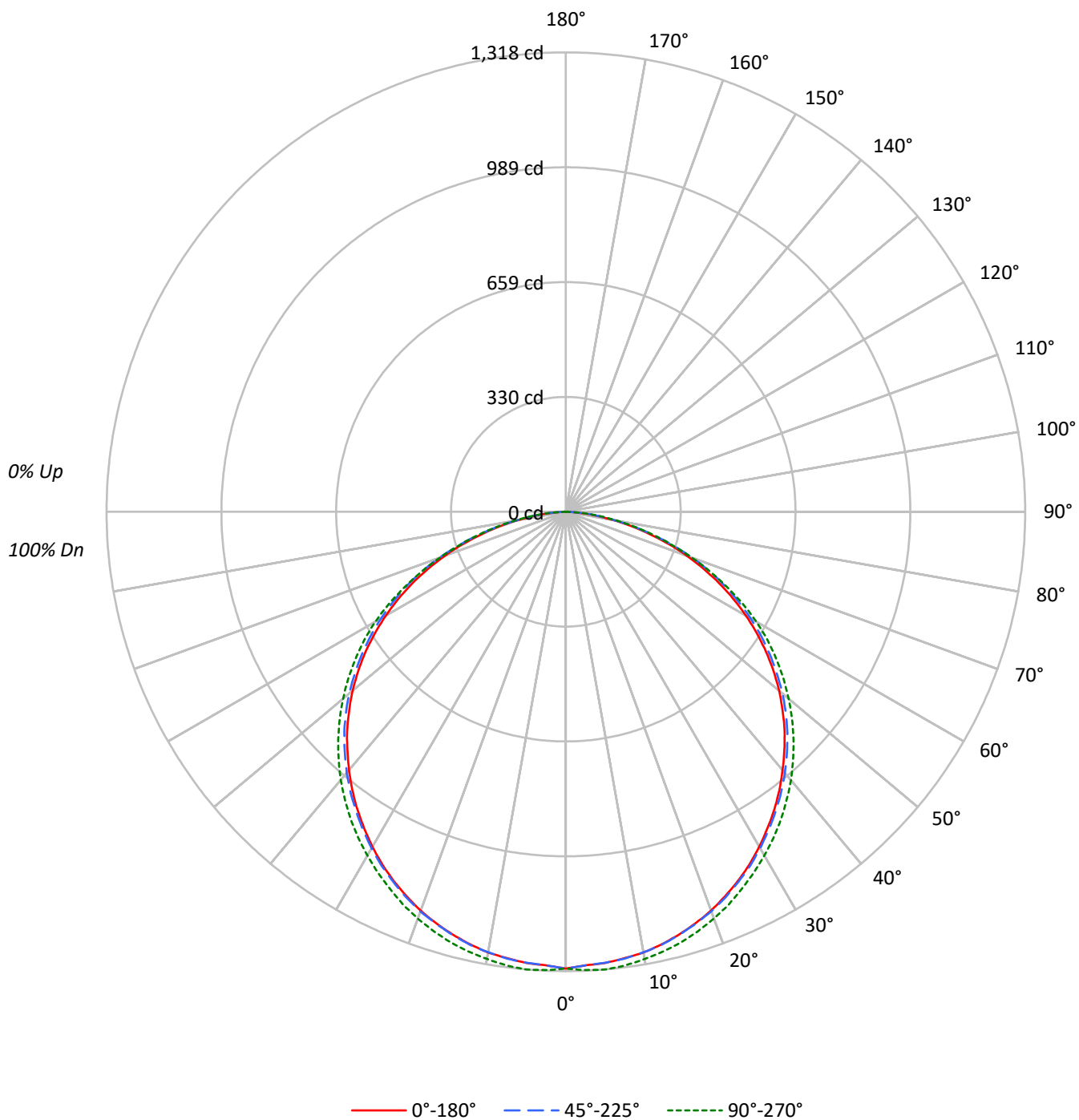
Lumens per Lamp: N/A
Luminaire Lumens: 3868.0 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	4417	4417	4417
5°	4395	4393	4459
10°	4394	4392	4458
15°	4380	4384	4461
20°	4366	4375	4454
25°	4345	4356	4439
30°	4318	4337	4432
35°	4290	4317	4429
40°	4257	4301	4421
45°	4231	4284	4403
50°	4188	4253	4375
55°	4123	4200	4332
60°	4023	4127	4255
65°	3873	4018	4061
70°	3641	3811	3787
75°	3269	3408	3432
80°	2701	2839	2988
85°	1809	2107	2223

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4403 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.2	3.2
10°-20°	357.1	9.2
20°-30°	543.8	14.1
30°-40°	661.8	17.1
40°-50°	697.7	18.0
50°-60°	642.6	16.6
60°-70°	496.3	12.8
70°-80°	277.7	7.2
80°-90°	66.9	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°	1025.1	26.5
0°-40°	1686.8	43.6
0°-60°	3027.1	78.3
0°-90°	3868.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3868.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1311	1311	1311	1311	1311	
5°	1300	1318	1299	1301	1318	124
15°	1256	1273	1257	1264	1279	354
25°	1169	1185	1172	1179	1194	539
35°	1043	1058	1050	1063	1077	652
45°	888	900	899	913	924	684
55°	702	714	715	730	737	626
65°	486	500	504	509	509	480
75°	251	266	262	261	264	266
85°	47	52	54	61	58	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1310.7	1310.7	1310.7	1310.7	1310.7
2.5°	1302.4	1321.4	1302.4	1305.4	1316.1
5°	1299.5	1317.8	1298.9	1300.7	1318.4
7.5°	1291.8	1310.7	1293.0	1295.3	1312.5
10°	1284.1	1301.2	1283.5	1286.4	1303.0
12.5°	1271.0	1288.8	1272.2	1275.8	1292.4
15°	1255.6	1272.8	1256.8	1263.9	1278.7
17.5°	1237.9	1254.5	1239.1	1247.3	1261.6
20°	1217.7	1233.7	1220.1	1226.0	1242.0
22.5°	1194.0	1210.6	1197.6	1202.9	1220.1
25°	1168.6	1185.2	1171.5	1179.2	1194.0
27.5°	1140.7	1156.7	1144.9	1154.4	1167.4
30°	1109.9	1125.3	1114.7	1125.9	1139.0
32.5°	1076.8	1093.4	1082.7	1095.7	1108.8
35°	1043.0	1058.4	1049.5	1062.6	1076.8
37.5°	1006.3	1021.1	1014.6	1028.2	1041.2
40°	967.8	984.4	977.9	992.1	1005.1
42.5°	928.1	944.1	938.8	953.6	964.8
45°	887.8	900.3	899.1	912.7	924.0
47.5°	843.4	858.8	856.4	870.1	880.1
50°	799.0	811.4	811.4	824.5	834.5
52.5°	751.0	763.5	763.5	778.9	787.1
55°	701.9	713.7	714.9	729.7	737.4
57.5°	649.7	662.2	664.5	679.3	686.5
60°	597.0	608.9	612.4	627.2	631.4
62.5°	541.9	556.2	557.9	569.8	572.1
65°	485.7	499.9	504.0	508.8	509.4
67.5°	428.2	443.0	447.2	447.2	447.2
70°	369.6	383.2	386.8	384.4	384.4
72.5°	310.4	325.2	323.4	321.0	322.2
75°	251.1	266.5	261.8	261.2	263.6
77.5°	194.3	209.1	201.4	206.1	206.7
80°	139.2	150.4	146.3	153.4	154.0
82.5°	89.4	96.5	97.7	103.6	101.9
85°	46.8	51.5	54.5	61.0	57.5
87.5°	14.8	19.5	17.8	20.7	16.0
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	17.20	18.85	17.56	19.17	19.48	17.41	19.07	17.78	19.38	19.70
	3H	19.02	20.52	19.39	20.84	21.20	19.21	20.71	19.59	21.04	21.40
	4H	19.66	21.08	20.06	21.42	21.80	19.85	21.26	20.25	21.61	21.98
	6H	20.09	21.40	20.50	21.76	22.16	20.30	21.61	20.71	21.98	22.37
	8H	20.20	21.45	20.62	21.84	22.24	20.43	21.69	20.86	22.07	22.47
	12H	20.25	21.45	20.68	21.83	22.26	20.51	21.71	20.94	22.09	22.52
4H	2H	17.87	19.29	18.27	19.63	20.01	18.04	19.46	18.44	19.80	20.18
	3H	19.92	21.10	20.32	21.50	21.90	20.06	21.24	20.47	21.64	22.04
	4H	20.70	21.77	21.13	22.18	22.62	20.82	21.89	21.25	22.30	22.74
	6H	21.25	22.18	21.70	22.62	23.08	21.39	22.33	21.84	22.77	23.22
	8H	21.39	22.27	21.85	22.71	23.17	21.57	22.44	22.02	22.88	23.35
	12H	21.47	22.26	21.95	22.74	23.21	21.68	22.47	22.16	22.94	23.41
8H	4H	21.00	21.88	21.46	22.32	22.79	21.11	21.99	21.57	22.43	22.89
	6H	21.66	22.39	22.15	22.88	23.35	21.79	22.52	22.28	23.01	23.48
	8H	21.87	22.52	22.38	23.03	23.51	22.03	22.68	22.54	23.19	23.68
	12H	22.00	22.58	22.51	23.07	23.63	22.21	22.79	22.71	23.28	23.84
12H	4H	21.03	21.82	21.51	22.30	22.77	21.14	21.93	21.62	22.40	22.87
	6H	21.71	22.36	22.22	22.87	23.35	21.83	22.49	22.34	22.99	23.48
	8H	21.96	22.54	22.47	23.03	23.59	22.12	22.70	22.63	23.19	23.75