

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: P1585698

Luminaire Tested: 14CZSP-SB-43HE-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585698
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-L845-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 4000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

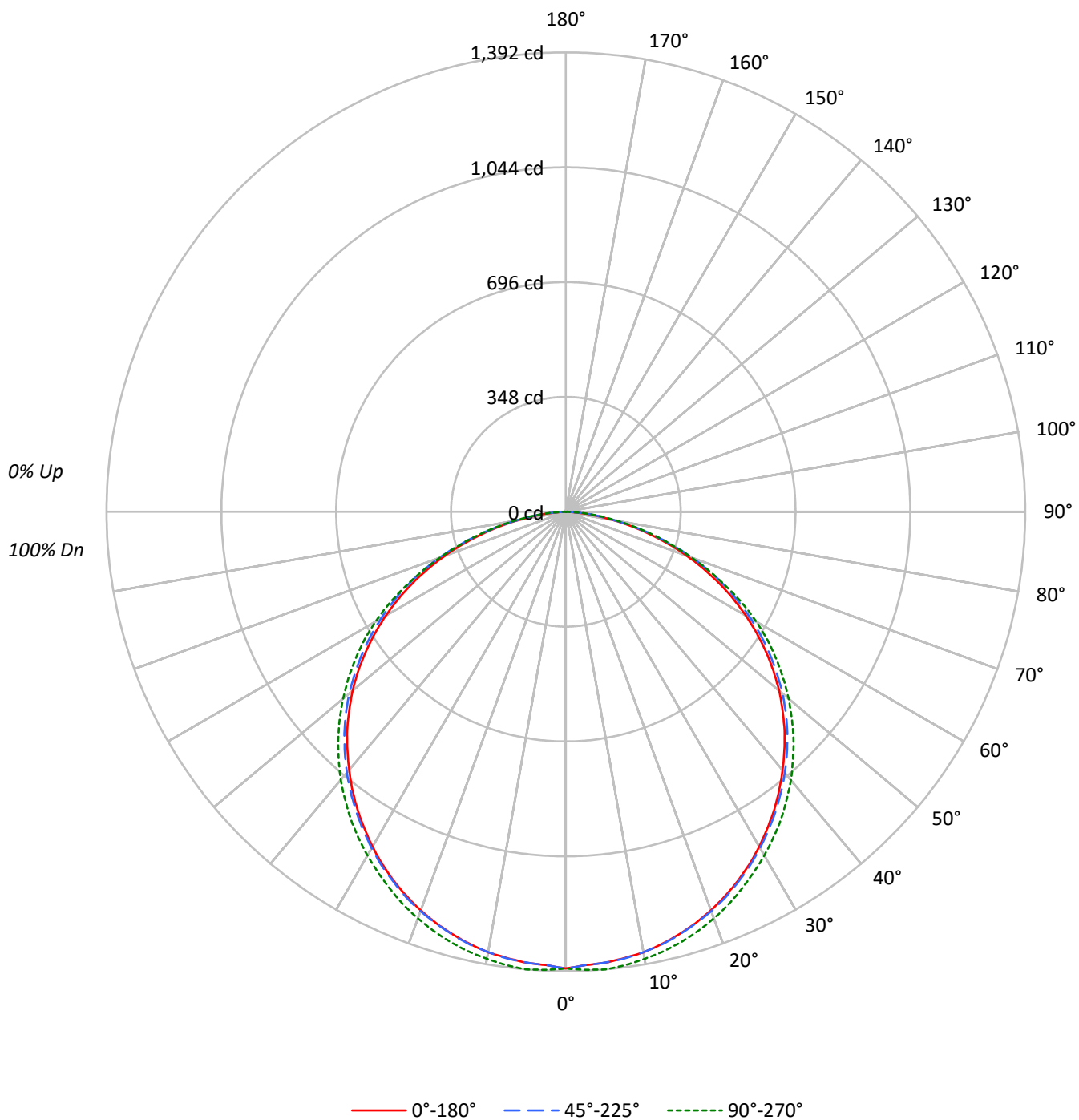
Lumens per Lamp: N/A
Luminaire Lumens: 4084.0 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	4663	4663	4663
5°	4641	4639	4708
10°	4639	4637	4707
15°	4625	4629	4710
20°	4610	4619	4702
25°	4587	4599	4687
30°	4560	4579	4679
35°	4530	4558	4677
40°	4495	4542	4668
45°	4467	4524	4649
50°	4422	4491	4619
55°	4353	4434	4574
60°	4248	4358	4492
65°	4089	4243	4288
70°	3844	4024	3999
75°	3453	3598	3623
80°	2852	2998	3155
85°	1910	2223	2347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4649 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.2	3.2
10°-20°	377.0	9.2
20°-30°	574.1	14.1
30°-40°	698.7	17.1
40°-50°	736.6	18.0
50°-60°	678.5	16.6
60°-70°	524.0	12.8
70°-80°	293.2	7.2
80°-90°	70.7	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°	1082.3	26.5
0°-40°	1781.0	43.6
0°-60°	3196.1	78.3
0°-90°	4084.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4084.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1384	1384	1384	1384	1384	
5°	1372	1391	1371	1373	1392	130
15°	1326	1344	1327	1334	1350	374
25°	1234	1251	1237	1245	1261	569
35°	1101	1118	1108	1122	1137	689
45°	937	950	949	964	976	722
55°	741	754	755	770	779	661
65°	513	528	532	537	538	507
75°	265	281	276	276	278	281
85°	49	54	58	64	61	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1383.9	1383.9	1383.9	1383.9	1383.9
2.5°	1375.2	1395.2	1375.2	1378.3	1389.5
5°	1372.0	1391.4	1371.4	1373.3	1392.0
7.5°	1363.9	1383.9	1365.2	1367.7	1385.8
10°	1355.8	1373.9	1355.2	1358.3	1375.8
12.5°	1342.0	1360.8	1343.3	1347.0	1364.5
15°	1325.8	1343.9	1327.0	1334.5	1350.1
17.5°	1307.0	1324.5	1308.2	1317.0	1332.0
20°	1285.7	1302.6	1288.2	1294.5	1311.4
22.5°	1260.7	1278.2	1264.5	1270.1	1288.2
25°	1233.8	1251.3	1237.0	1245.1	1260.7
27.5°	1204.4	1221.3	1208.8	1218.8	1232.6
30°	1171.9	1188.2	1176.9	1188.8	1202.6
32.5°	1136.9	1154.4	1143.2	1156.9	1170.7
35°	1101.3	1117.5	1108.1	1121.9	1136.9
37.5°	1062.5	1078.1	1071.2	1085.6	1099.4
40°	1021.8	1039.3	1032.5	1047.5	1061.2
42.5°	979.9	996.8	991.2	1006.8	1018.7
45°	937.4	950.5	949.3	963.7	975.6
47.5°	890.5	906.8	904.3	918.7	929.3
50°	843.6	856.7	856.7	870.5	881.1
52.5°	793.0	806.1	806.1	822.3	831.1
55°	741.0	753.6	754.8	770.4	778.6
57.5°	686.0	699.2	701.7	717.3	724.8
60°	630.4	642.9	646.6	662.3	666.6
62.5°	572.2	587.2	589.1	601.6	604.1
65°	512.8	527.8	532.2	537.2	537.8
67.5°	452.1	467.8	472.1	472.1	472.1
70°	390.2	404.6	408.4	405.9	405.9
72.5°	327.7	343.3	341.4	338.9	340.2
75°	265.2	281.4	276.4	275.8	278.3
77.5°	205.1	220.8	212.6	217.6	218.2
80°	147.0	158.8	154.5	162.0	162.6
82.5°	94.4	101.9	103.2	109.4	107.6
85°	49.4	54.4	57.5	64.4	60.7
87.5°	15.6	20.6	18.8	21.9	16.9
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	17.38	19.04	17.75	19.35	19.67	17.60	19.26	17.97	19.57	19.88
	3H	19.21	20.70	19.58	21.03	21.39	19.40	20.90	19.78	21.23	21.59
	4H	19.85	21.26	20.25	21.61	21.99	20.04	21.45	20.44	21.80	22.17
	6H	20.28	21.59	20.69	21.95	22.34	20.49	21.80	20.90	22.17	22.56
	8H	20.39	21.64	20.81	22.03	22.43	20.62	21.87	21.05	22.26	22.66
	12H	20.44	21.64	20.87	22.02	22.45	20.70	21.90	21.13	22.28	22.71
4H	2H	18.06	19.48	18.46	19.82	20.20	18.23	19.65	18.63	19.99	20.37
	3H	20.10	21.29	20.51	21.69	22.09	20.25	21.43	20.66	21.83	22.23
	4H	20.88	21.96	21.32	22.37	22.80	21.01	22.08	21.44	22.49	22.93
	6H	21.43	22.37	21.89	22.81	23.27	21.58	22.52	22.03	22.96	23.41
	8H	21.58	22.46	22.04	22.90	23.36	21.75	22.63	22.21	23.07	23.54
	12H	21.66	22.45	22.14	22.93	23.40	21.87	22.66	22.35	23.13	23.60
8H	4H	21.19	22.07	21.65	22.51	22.98	21.30	22.18	21.76	22.62	23.08
	6H	21.85	22.58	22.34	23.07	23.54	21.98	22.71	22.47	23.20	23.67
	8H	22.06	22.71	22.56	23.22	23.70	22.22	22.87	22.73	23.38	23.86
	12H	22.19	22.77	22.70	23.26	23.82	22.40	22.97	22.90	23.46	24.02
12H	4H	21.22	22.01	21.70	22.49	22.95	21.33	22.12	21.81	22.59	23.06
	6H	21.90	22.55	22.40	23.06	23.54	22.02	22.68	22.53	23.18	23.67
	8H	22.15	22.73	22.66	23.22	23.78	22.31	22.89	22.82	23.38	23.94