

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: P1585709

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-43HE-L945
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 4000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

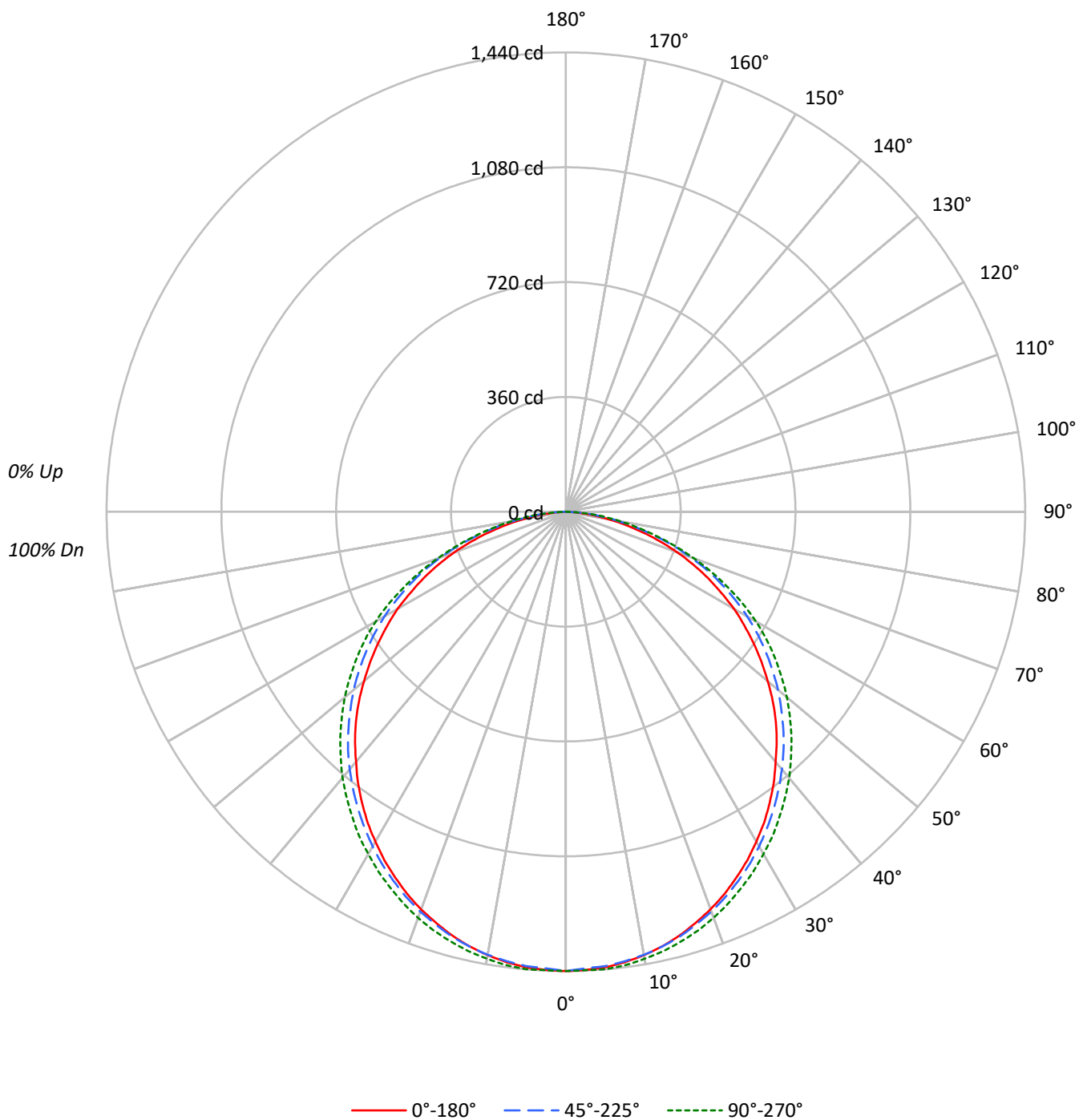
Lumens per Lamp: N/A
Luminaire Lumens: 4159.0 lumens
Efficiency: N/A
Efficacy: 143.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4851	4851	4851
5°	4847	4835	4867
10°	4829	4825	4868
15°	4798	4809	4865
20°	4756	4784	4857
25°	4704	4749	4838
30°	4646	4713	4820
35°	4581	4675	4803
40°	4501	4635	4791
45°	4436	4593	4765
50°	4331	4551	4742
55°	4220	4491	4706
60°	4106	4425	4643
65°	3922	4309	4466
70°	3659	4114	4214
75°	3260	3729	3838
80°	2662	3231	3394
85°	1759	2571	2757

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4765 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.3	3.3
10°-20°	390.6	9.4
20°-30°	591.3	14.2
30°-40°	713.8	17.2
40°-50°	745.4	17.9
50°-60°	681.9	16.4
60°-70°	527.2	12.7
70°-80°	298.4	7.2
80°-90°	74.1	1.8
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°	1118.2	26.9
0°-40°	1832.0	44.0
0°-60°	3259.3	78.4
0°-90°	4159.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4159.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1440	1440	1440	1440	1440	
5°	1433	1443	1429	1431	1439	136
15°	1376	1388	1378	1385	1395	388
25°	1265	1281	1277	1289	1301	583
35°	1114	1129	1136	1156	1168	697
45°	931	949	964	988	1000	717
55°	718	740	764	788	801	642
65°	492	512	540	557	560	485
75°	250	272	286	294	295	265
85°	46	53	66	70	71	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1439.6	1439.6	1439.6	1439.6	1439.6
2.5°	1437.8	1448.0	1432.4	1435.4	1438.4
5°	1433.0	1443.2	1429.4	1430.6	1439.0
7.5°	1424.0	1435.4	1421.0	1423.4	1433.6
10°	1411.4	1422.8	1410.3	1412.6	1422.8
12.5°	1395.3	1406.7	1395.9	1399.5	1410.8
15°	1375.5	1387.5	1378.5	1385.1	1394.7
17.5°	1351.5	1366.5	1356.9	1367.1	1376.7
20°	1326.4	1341.4	1334.2	1343.2	1354.5
22.5°	1297.6	1312.6	1307.2	1316.8	1329.4
25°	1265.3	1281.4	1277.3	1289.2	1301.2
27.5°	1231.7	1247.3	1246.1	1259.3	1271.9
30°	1194.0	1210.8	1211.4	1226.9	1238.9
32.5°	1156.2	1171.2	1174.8	1192.2	1206.0
35°	1113.7	1129.3	1136.5	1155.6	1167.6
37.5°	1070.6	1087.9	1095.7	1116.7	1129.3
40°	1023.2	1043.0	1053.8	1076.0	1089.1
42.5°	978.3	996.3	1010.7	1032.8	1044.8
45°	931.0	949.0	963.9	988.5	999.9
47.5°	880.1	899.8	916.0	940.0	952.5
50°	826.1	847.7	868.1	891.4	904.6
52.5°	772.8	793.8	817.2	839.9	853.1
55°	718.3	739.9	764.4	788.4	801.0
57.5°	663.2	684.8	711.7	733.3	746.5
60°	609.3	629.0	656.6	678.2	688.9
62.5°	548.2	570.9	599.1	620.7	626.6
65°	491.9	512.2	540.4	556.6	560.1
67.5°	431.9	452.3	480.5	489.5	494.8
70°	371.4	393.0	417.6	423.6	427.7
72.5°	310.3	332.5	351.7	357.7	361.2
75°	250.4	272.0	286.4	293.6	294.8
77.5°	192.3	212.1	225.3	233.6	233.6
80°	137.2	152.2	166.5	175.5	174.9
82.5°	87.5	98.8	113.8	120.4	124.6
85°	45.5	52.7	66.5	69.5	71.3
87.5°	14.4	18.6	24.0	19.8	19.2
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	17.17	18.82	17.53	19.13	19.45	17.71	19.36	18.07	19.67	19.99
	3H	18.94	20.43	19.32	20.76	21.12	19.57	21.06	19.94	21.39	21.75
	4H	19.56	20.97	19.96	21.32	21.69	20.24	21.65	20.64	22.00	22.37
	6H	19.97	21.27	20.38	21.64	22.03	20.73	22.03	21.14	22.39	22.79
	8H	20.07	21.32	20.49	21.71	22.10	20.88	22.13	21.31	22.52	22.92
	12H	20.12	21.31	20.55	21.69	22.12	20.98	22.17	21.41	22.56	22.98
4H	2H	17.91	19.31	18.30	19.66	20.04	18.33	19.74	18.73	20.08	20.46
	3H	19.90	21.08	20.31	21.48	21.88	20.41	21.59	20.81	21.98	22.38
	4H	20.65	21.72	21.08	22.13	22.56	21.21	22.28	21.64	22.69	23.12
	6H	21.17	22.10	21.62	22.54	23.00	21.82	22.76	22.27	23.20	23.65
	8H	21.30	22.18	21.76	22.62	23.08	22.02	22.90	22.48	23.34	23.81
	12H	21.38	22.16	21.86	22.64	23.11	22.16	22.95	22.64	23.43	23.89
8H	4H	21.00	21.88	21.46	22.32	22.78	21.50	22.37	21.96	22.81	23.28
	6H	21.63	22.36	22.13	22.85	23.32	22.23	22.96	22.72	23.44	23.92
	8H	21.83	22.48	22.34	22.99	23.47	22.50	23.15	23.01	23.66	24.15
	12H	21.95	22.53	22.46	23.02	23.58	22.71	23.28	23.21	23.77	24.33
12H	4H	21.04	21.83	21.52	22.30	22.77	21.52	22.31	22.00	22.78	23.25
	6H	21.70	22.35	22.21	22.86	23.34	22.27	22.92	22.78	23.43	23.92
	8H	21.95	22.52	22.45	23.01	23.57	22.60	23.17	23.10	23.66	24.22