

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: P1585695

Luminaire Tested: 14CZSP-SB-43HE-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585695
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-L835
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

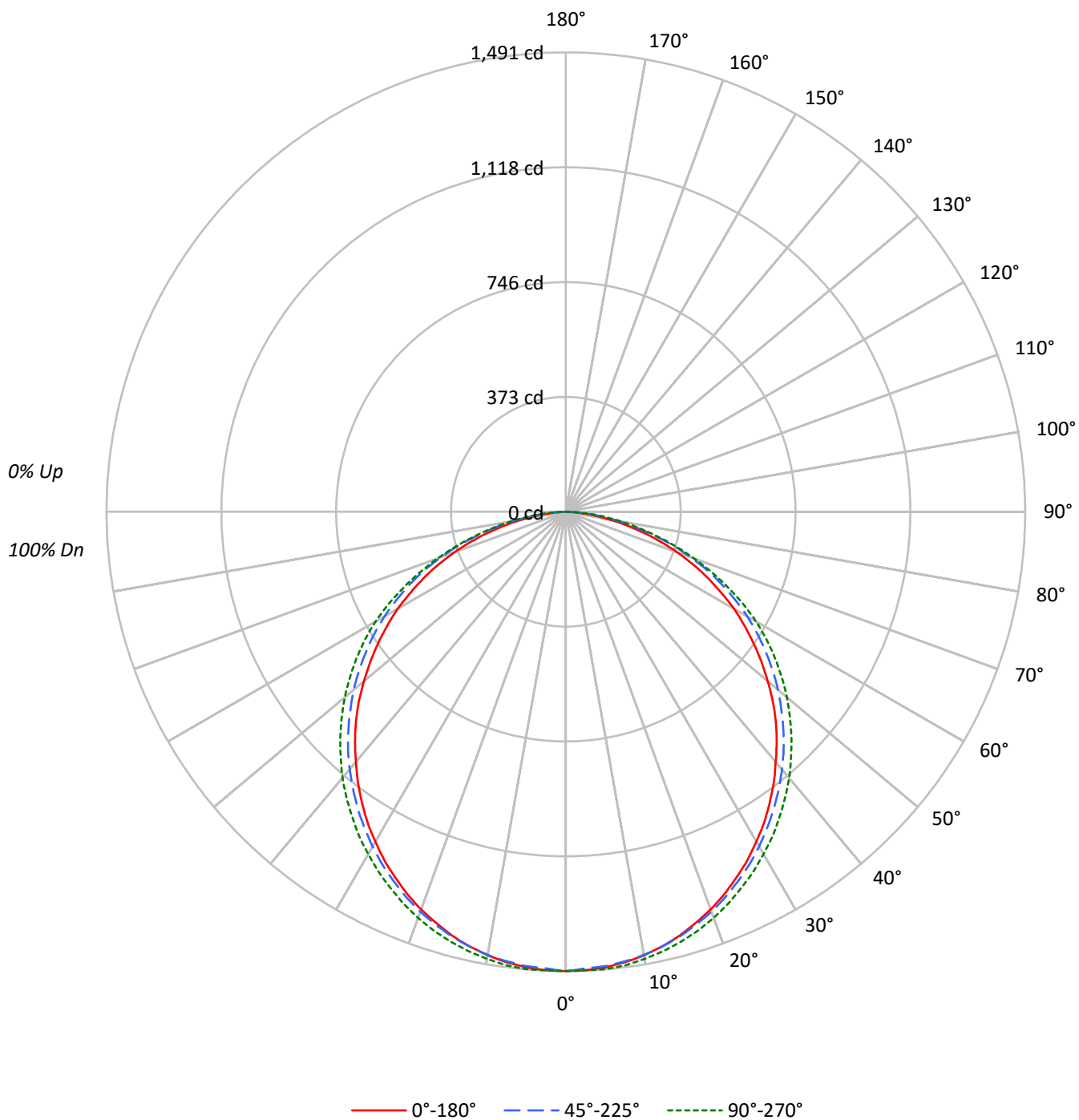
Lumens per Lamp: N/A
Luminaire Lumens: 4307.0 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			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	78	96	88	82	77	85	79	75		82	77	73		79	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5023	5023	5023
5°	5020	5007	5041
10°	5001	4997	5042
15°	4969	4980	5038
20°	4925	4954	5030
25°	4872	4918	5010
30°	4811	4881	4992
35°	4744	4841	4974
40°	4661	4800	4961
45°	4594	4757	4934
50°	4485	4713	4911
55°	4370	4650	4873
60°	4252	4583	4808
65°	4061	4462	4625
70°	3790	4260	4364
75°	3376	3861	3973
80°	2757	3347	3516
85°	1825	2664	2853

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4934 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.2	3.3
10°-20°	404.5	9.4
20°-30°	612.4	14.2
30°-40°	739.2	17.2
40°-50°	771.9	17.9
50°-60°	706.1	16.4
60°-70°	545.9	12.7
70°-80°	309.1	7.2
80°-90°	76.8	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°	1158.0	26.9
0°-40°	1897.2	44.0
0°-60°	3375.2	78.4
0°-90°	4307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4307.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1491	1491	1491	1491	1491	
5°	1484	1495	1480	1482	1490	141
15°	1424	1437	1428	1434	1444	402
25°	1310	1327	1323	1335	1348	604
35°	1153	1170	1177	1197	1209	721
45°	964	983	998	1024	1036	743
55°	744	766	792	816	830	665
65°	509	530	560	576	580	503
75°	259	282	297	304	305	275
85°	47	55	69	72	74	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1490.8	1490.8	1490.8	1490.8	1490.8
2.5°	1489.0	1499.5	1483.4	1486.5	1489.6
5°	1484.0	1494.6	1480.3	1481.5	1490.2
7.5°	1474.7	1486.5	1471.6	1474.1	1484.6
10°	1461.7	1473.5	1460.4	1462.9	1473.5
12.5°	1444.9	1456.7	1445.5	1449.3	1461.1
15°	1424.5	1436.9	1427.6	1434.4	1444.3
17.5°	1399.6	1415.1	1405.2	1415.8	1425.7
20°	1373.6	1389.1	1381.6	1390.9	1402.7
22.5°	1343.8	1359.3	1353.7	1363.7	1376.7
25°	1310.3	1327.0	1322.7	1335.1	1347.5
27.5°	1275.6	1291.7	1290.4	1304.1	1317.1
30°	1236.5	1253.8	1254.5	1270.6	1283.0
32.5°	1197.4	1212.9	1216.6	1234.6	1248.9
35°	1153.3	1169.5	1176.9	1196.8	1209.2
37.5°	1108.7	1126.7	1134.7	1156.4	1169.5
40°	1059.7	1080.1	1091.3	1114.2	1127.9
42.5°	1013.1	1031.7	1046.6	1069.6	1082.0
45°	964.1	982.7	998.2	1023.7	1035.5
47.5°	911.4	931.8	948.6	973.4	986.4
50°	855.5	877.9	899.0	923.2	936.8
52.5°	800.3	822.0	846.2	869.8	883.5
55°	743.9	766.2	791.6	816.5	829.5
57.5°	686.8	709.1	737.0	759.4	773.0
60°	631.0	651.4	680.0	702.3	713.5
62.5°	567.7	591.2	620.4	642.7	648.9
65°	509.4	530.4	559.6	576.4	580.1
67.5°	447.3	468.4	497.6	506.9	512.5
70°	384.7	407.0	432.4	438.6	443.0
72.5°	321.4	344.3	364.2	370.4	374.1
75°	259.3	281.7	296.6	304.0	305.2
77.5°	199.2	219.6	233.3	242.0	242.0
80°	142.1	157.6	172.5	181.8	181.2
82.5°	90.6	102.4	117.9	124.7	129.0
85°	47.2	54.6	68.9	72.0	73.8
87.5°	14.9	19.2	24.8	20.5	19.9
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	17.29	18.94	17.65	19.25	19.57	17.83	19.48	18.19	19.79	20.11
	3H	19.06	20.55	19.44	20.88	21.24	19.69	21.18	20.07	21.51	21.87
	4H	19.68	21.09	20.08	21.44	21.81	20.36	21.77	20.76	22.12	22.49
	6H	20.09	21.40	20.50	21.76	22.15	20.85	22.15	21.26	22.52	22.91
	8H	20.19	21.44	20.61	21.83	22.23	21.00	22.25	21.43	22.64	23.04
	12H	20.24	21.43	20.67	21.82	22.24	21.10	22.30	21.53	22.68	23.11
4H	2H	18.03	19.43	18.42	19.78	20.16	18.45	19.86	18.85	20.20	20.58
	3H	20.02	21.20	20.43	21.60	22.00	20.53	21.71	20.94	22.11	22.51
	4H	20.77	21.84	21.20	22.25	22.69	21.33	22.40	21.76	22.81	23.25
	6H	21.29	22.22	21.74	22.66	23.12	21.94	22.88	22.40	23.32	23.77
	8H	21.42	22.30	21.88	22.74	23.20	22.15	23.02	22.61	23.46	23.93
	12H	21.50	22.29	21.98	22.76	23.23	22.29	23.07	22.77	23.55	24.02
8H	4H	21.12	22.00	21.58	22.44	22.90	21.62	22.49	22.08	22.93	23.40
	6H	21.76	22.48	22.25	22.97	23.45	22.35	23.08	22.84	23.57	24.04
	8H	21.95	22.60	22.46	23.11	23.59	22.62	23.28	23.13	23.78	24.27
	12H	22.08	22.65	22.58	23.14	23.70	22.83	23.41	23.34	23.90	24.46
12H	4H	21.16	21.95	21.64	22.43	22.90	21.64	22.43	22.12	22.90	23.37
	6H	21.82	22.47	22.33	22.98	23.47	22.39	23.05	22.90	23.55	24.04
	8H	22.07	22.65	22.58	23.14	23.70	22.72	23.30	23.23	23.79	24.35