

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: P1587700

Luminaire Tested: 22CZSP-SB-43HE-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-43HE-L850-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

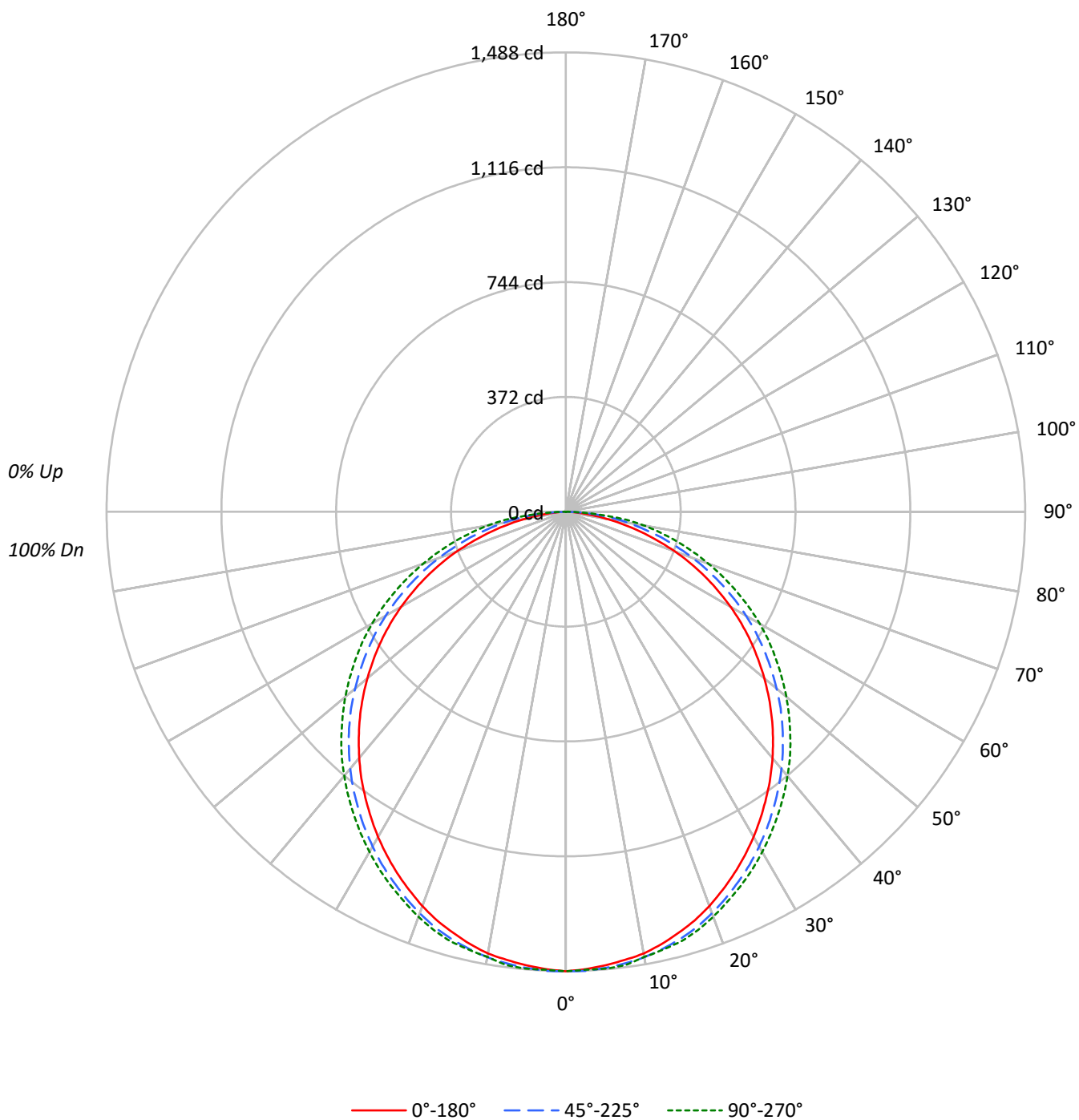
Lumens per Lamp: N/A
Luminaire Lumens: 4330.0 lumens
Efficiency: N/A
Efficacy: 153.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.2
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	108	103	99	95	106	101	97	93	97	94	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	45	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38	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°	4661	4661	4661
5°	4635	4661	4670
10°	4620	4659	4656
15°	4578	4644	4671
20°	4529	4613	4653
25°	4464	4567	4625
30°	4399	4527	4601
35°	4326	4483	4579
40°	4257	4443	4565
45°	4179	4397	4554
50°	4089	4342	4542
55°	3987	4287	4536
60°	3862	4224	4539
65°	3685	4134	4514
70°	3445	4008	4503
75°	3054	3855	4519
80°	2487	3662	4652
85°	1606	3381	4017

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4714 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.9	3.3
10°-20°	403.4	9.3
20°-30°	608.2	14.0
30°-40°	731.8	16.9
40°-50°	763.3	17.6
50°-60°	699.7	16.2
60°-70°	549.4	12.7
70°-80°	334.4	7.7
80°-90°	98.9	2.3
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°	1152.4	26.6
0°-40°	1884.2	43.5
0°-60°	3347.3	77.3
0°-90°	4330.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4330.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1488	1488	1488	1488	1488	
5°	1474	1484	1483	1481	1486	140
15°	1412	1426	1433	1434	1441	398
25°	1292	1310	1322	1330	1338	595
35°	1132	1149	1173	1190	1198	708
45°	944	963	993	1016	1028	728
55°	730	749	785	817	831	653
65°	497	516	558	595	609	492
75°	252	276	319	357	374	268
85°	45	63	94	105	112	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1488.5	1488.5	1488.5	1488.5	1488.5
2.5°	1482.9	1490.4	1488.5	1482.0	1484.8
5°	1474.5	1483.8	1482.9	1481.1	1485.7
7.5°	1464.3	1474.5	1475.5	1475.5	1481.1
10°	1453.1	1463.4	1465.2	1462.4	1464.3
12.5°	1434.5	1446.6	1450.3	1450.3	1453.1
15°	1412.1	1426.1	1432.6	1434.5	1441.0
17.5°	1387.9	1402.8	1411.2	1415.8	1421.4
20°	1359.0	1374.9	1384.2	1389.8	1396.3
22.5°	1326.4	1344.1	1354.4	1360.0	1367.4
25°	1292.0	1309.7	1321.8	1330.2	1338.5
27.5°	1255.6	1272.4	1289.2	1299.4	1306.9
30°	1216.5	1234.2	1251.9	1264.9	1272.4
32.5°	1174.6	1193.2	1213.7	1227.7	1236.1
35°	1131.7	1149.4	1172.7	1189.5	1197.9
37.5°	1088.0	1106.6	1130.8	1148.5	1158.8
40°	1041.4	1061.0	1087.0	1106.6	1116.8
42.5°	993.0	1011.6	1040.5	1062.8	1074.9
45°	943.6	963.1	993.0	1016.2	1028.4
47.5°	892.4	911.0	943.6	970.6	980.8
50°	839.3	857.0	891.4	920.3	932.4
52.5°	785.2	803.9	838.3	869.1	882.1
55°	730.3	748.9	785.2	816.9	830.9
57.5°	674.4	693.0	730.3	762.9	779.6
60°	616.6	635.3	674.4	707.9	724.7
62.5°	557.0	576.6	616.6	651.1	668.8
65°	497.4	516.0	558.0	595.2	609.2
67.5°	437.8	456.4	497.4	534.7	551.4
70°	376.3	397.7	437.8	476.9	491.8
72.5°	312.0	336.3	376.3	417.3	432.2
75°	252.4	275.7	318.6	356.8	373.5
77.5°	193.7	218.9	259.0	298.1	314.8
80°	137.9	162.1	203.1	240.3	258.0
82.5°	87.6	109.0	150.0	183.5	196.5
85°	44.7	63.3	94.1	105.3	111.8
87.5°	13.0	22.4	33.5	41.9	46.6
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	16.85	18.51	17.21	18.82	19.14	17.58	19.24	17.95	19.56	19.87
	3H	18.62	20.12	18.99	20.45	20.81	19.66	21.17	20.04	21.49	21.85
	4H	19.23	20.65	19.63	21.00	21.38	20.53	21.95	20.92	22.29	22.67
	6H	19.64	20.96	20.05	21.33	21.72	21.27	22.59	21.68	22.95	23.34
	8H	19.75	21.01	20.17	21.40	21.79	21.57	22.83	21.99	23.22	23.61
	12H	19.80	21.00	20.22	21.38	21.81	21.76	22.97	22.19	23.35	23.78
4H	2H	17.62	19.04	18.01	19.38	19.76	18.19	19.61	18.58	19.95	20.33
	3H	19.61	20.80	20.02	21.20	21.60	20.50	21.70	20.91	22.09	22.49
	4H	20.35	21.43	20.78	21.85	22.28	21.52	22.60	21.95	23.01	23.45
	6H	20.88	21.83	21.33	22.27	22.72	22.42	23.37	22.88	23.81	24.27
	8H	21.02	21.91	21.48	22.35	22.81	22.79	23.68	23.25	24.12	24.59
	12H	21.10	21.90	21.58	22.38	22.84	23.04	23.85	23.52	24.32	24.79
8H	4H	20.79	21.68	21.25	22.13	22.59	21.82	22.71	22.28	23.15	23.61
	6H	21.46	22.20	21.95	22.69	23.16	22.87	23.62	23.37	24.10	24.58
	8H	21.67	22.33	22.17	22.84	23.32	23.35	24.01	23.85	24.52	25.00
	12H	21.80	22.39	22.31	22.88	23.44	23.70	24.29	24.20	24.78	25.34
12H	4H	20.88	21.68	21.35	22.15	22.62	21.84	22.64	22.32	23.12	23.59
	6H	21.58	22.25	22.09	22.75	23.24	22.92	23.59	23.43	24.10	24.58
	8H	21.86	22.45	22.36	22.94	23.50	23.46	24.05	23.97	24.54	25.10