

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: P1587704

Luminaire Tested: 22CZSP-SB-43HE-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587704
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-L935-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

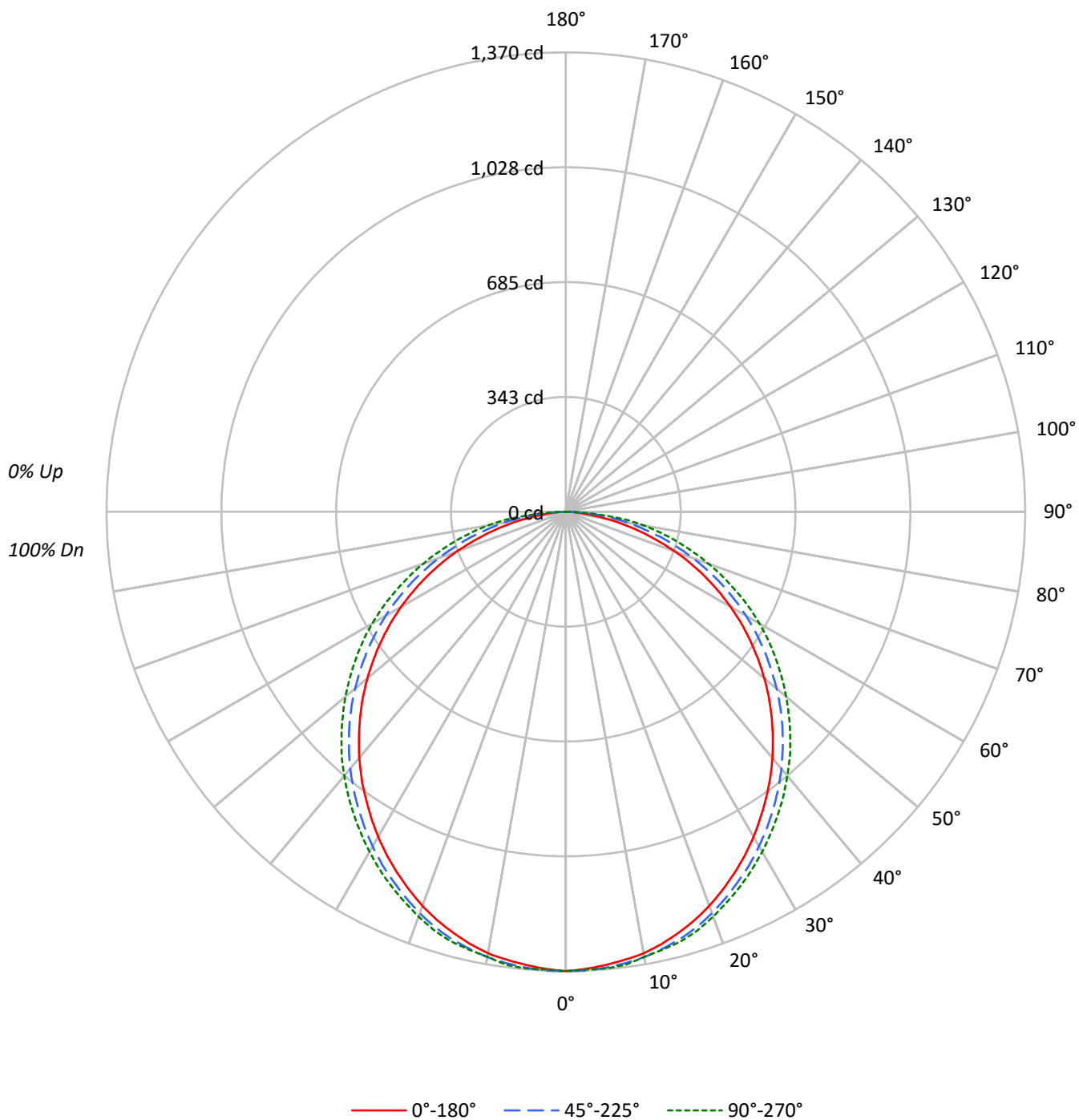
Lumens per Lamp: N/A
Luminaire Lumens: 3985.0 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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
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	108	103	99	95	106	101	97	93	97	94	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	45	39		50
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4290	4290	4290
5°	4265	4290	4298
10°	4252	4288	4285
15°	4213	4274	4299
20°	4168	4245	4282
25°	4108	4203	4256
30°	4048	4166	4234
35°	3982	4126	4214
40°	3918	4089	4202
45°	3846	4047	4191
50°	3763	3997	4180
55°	3669	3945	4175
60°	3554	3887	4177
65°	3392	3805	4154
70°	3171	3689	4144
75°	2810	3547	4159
80°	2288	3370	4283
85°	1477	3111	3697

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4340 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.6	3.3
10°-20°	371.2	9.3
20°-30°	559.7	14.0
30°-40°	673.5	16.9
40°-50°	702.5	17.6
50°-60°	643.9	16.2
60°-70°	505.6	12.7
70°-80°	307.8	7.7
80°-90°	91.1	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°	1060.6	26.6
0°-40°	1734.1	43.5
0°-60°	3080.6	77.3
0°-90°	3985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3985.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1370	1370	1370	1370	1370	
5°	1357	1366	1365	1363	1367	129
15°	1300	1312	1318	1320	1326	367
25°	1189	1205	1216	1224	1232	548
35°	1042	1058	1079	1095	1102	652
45°	868	886	914	935	946	670
55°	672	689	723	752	765	601
65°	458	475	514	548	561	453
75°	232	254	293	328	344	246
85°	41	58	87	97	103	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1369.9	1369.9	1369.9	1369.9	1369.9
2.5°	1364.8	1371.6	1369.9	1363.9	1366.5
5°	1357.0	1365.6	1364.8	1363.0	1367.3
7.5°	1347.6	1357.0	1357.9	1357.9	1363.0
10°	1337.3	1346.8	1348.5	1345.9	1347.6
12.5°	1320.2	1331.3	1334.8	1334.8	1337.3
15°	1299.6	1312.5	1318.5	1320.2	1326.2
17.5°	1277.3	1291.0	1298.8	1303.0	1308.2
20°	1250.7	1265.3	1273.9	1279.0	1285.0
22.5°	1220.7	1237.0	1246.5	1251.6	1258.5
25°	1189.0	1205.3	1216.5	1224.2	1231.9
27.5°	1155.6	1171.0	1186.5	1195.9	1202.7
30°	1119.6	1135.9	1152.2	1164.2	1171.0
32.5°	1081.0	1098.2	1117.0	1129.9	1137.6
35°	1041.6	1057.9	1079.3	1094.7	1102.4
37.5°	1001.3	1018.4	1040.7	1057.0	1066.4
40°	958.4	976.4	1000.4	1018.4	1027.9
42.5°	913.8	931.0	957.6	978.1	989.3
45°	868.4	886.4	913.8	935.3	946.4
47.5°	821.3	838.4	868.4	893.3	902.7
50°	772.4	788.7	820.4	847.0	858.1
52.5°	722.7	739.8	771.5	799.8	811.8
55°	672.1	689.2	722.7	751.8	764.7
57.5°	620.7	637.8	672.1	702.1	717.5
60°	567.5	584.7	620.7	651.5	666.9
62.5°	512.6	530.6	567.5	599.2	615.5
65°	457.8	474.9	513.5	547.8	560.6
67.5°	402.9	420.1	457.8	492.1	507.5
70°	346.3	366.1	402.9	438.9	452.6
72.5°	287.2	309.5	346.3	384.1	397.8
75°	232.3	253.7	293.2	328.3	343.8
77.5°	178.3	201.5	238.3	274.3	289.8
80°	126.9	149.2	186.9	221.2	237.5
82.5°	80.6	100.3	138.0	168.9	180.9
85°	41.1	58.3	86.6	96.9	102.9
87.5°	12.0	20.6	30.9	38.6	42.9
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	16.56	18.22	16.92	18.53	18.85	17.29	18.95	17.66	19.27	19.58
	3H	18.33	19.83	18.70	20.16	20.52	19.37	20.88	19.75	21.20	21.56
	4H	18.95	20.37	19.34	20.71	21.09	20.24	21.66	20.64	22.01	22.38
	6H	19.36	20.67	19.77	21.04	21.43	20.98	22.30	21.39	22.66	23.06
	8H	19.46	20.72	19.88	21.11	21.51	21.28	22.54	21.70	22.93	23.33
	12H	19.51	20.72	19.94	21.10	21.52	21.47	22.68	21.90	23.06	23.49
4H	2H	17.33	18.75	17.73	19.09	19.47	17.90	19.32	18.30	19.67	20.04
	3H	19.32	20.51	19.73	20.91	21.31	20.21	21.41	20.62	21.80	22.20
	4H	20.06	21.14	20.49	21.56	21.99	21.23	22.31	21.66	22.73	23.16
	6H	20.59	21.54	21.04	21.98	22.43	22.14	23.09	22.59	23.52	23.98
	8H	20.73	21.62	21.19	22.06	22.53	22.50	23.39	22.96	23.83	24.30
	12H	20.81	21.61	21.29	22.09	22.56	22.76	23.56	23.24	24.03	24.50
8H	4H	20.51	21.40	20.97	21.84	22.30	21.53	22.42	21.99	22.86	23.32
	6H	21.17	21.91	21.66	22.40	22.87	22.59	23.33	23.08	23.81	24.29
	8H	21.38	22.05	21.89	22.55	23.03	23.06	23.72	23.56	24.23	24.71
	12H	21.52	22.11	22.02	22.59	23.15	23.41	24.00	23.91	24.49	25.05
12H	4H	20.59	21.39	21.07	21.86	22.33	21.55	22.35	22.03	22.83	23.30
	6H	21.29	21.96	21.80	22.47	22.95	22.64	23.30	23.14	23.81	24.29
	8H	21.57	22.16	22.08	22.65	23.21	23.17	23.76	23.68	24.25	24.81