

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: P1587702

Luminaire Tested: 22CZSP-SB-43HE-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587702
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-L930-S
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

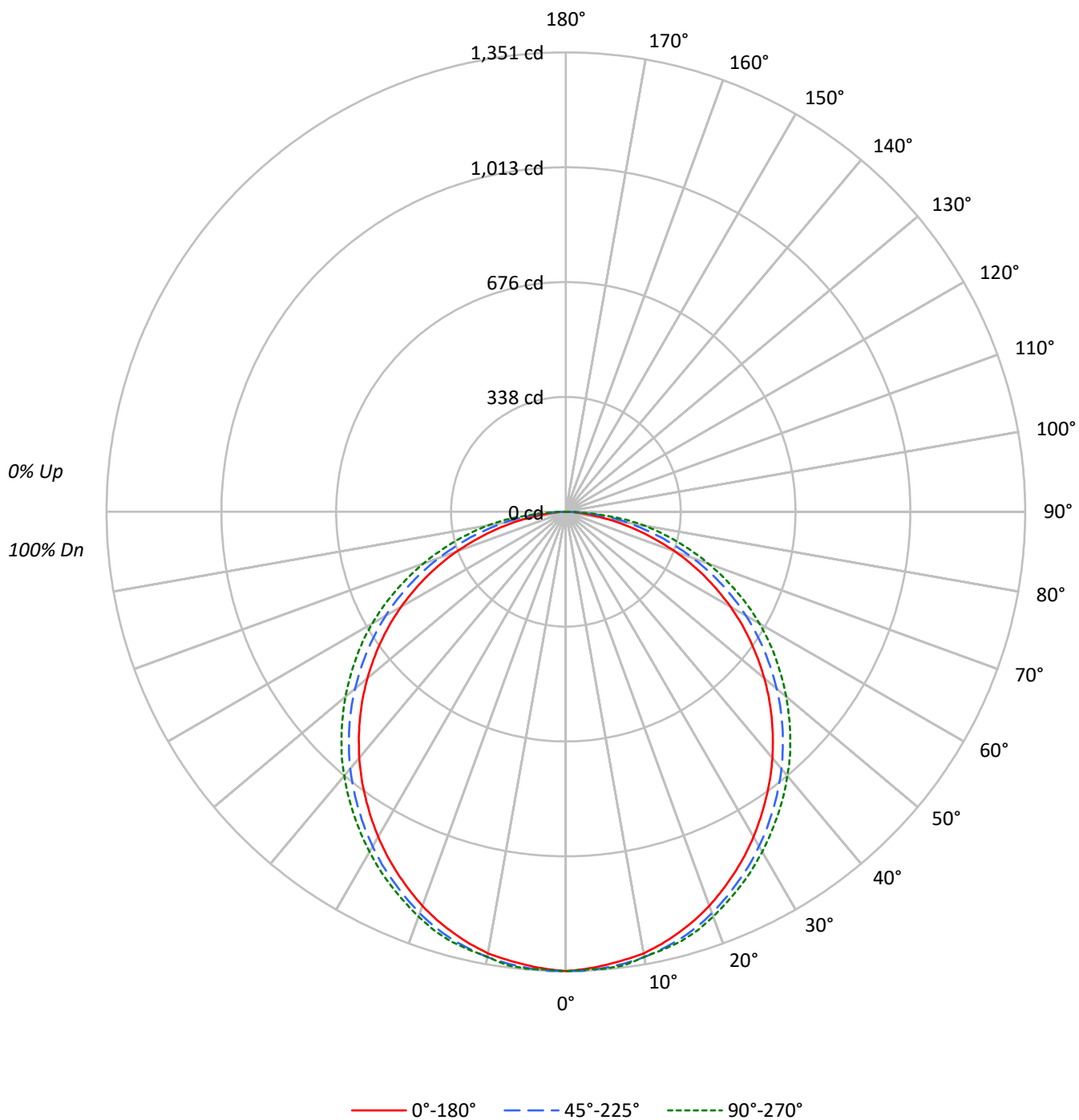
Lumens per Lamp: N/A
Luminaire Lumens: 3930.0 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	4230	4230	4230
5°	4207	4231	4239
10°	4194	4229	4226
15°	4155	4215	4240
20°	4110	4186	4223
25°	4051	4145	4198
30°	3992	4109	4176
35°	3927	4069	4156
40°	3864	4033	4144
45°	3792	3991	4133
50°	3711	3942	4123
55°	3618	3891	4117
60°	3505	3833	4119
65°	3345	3752	4097
70°	3127	3638	4087
75°	2772	3498	4101
80°	2256	3323	4223
85°	1459	3068	3647

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4280 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	3.3
10°-20°	366.1	9.3
20°-30°	552.0	14.0
30°-40°	664.2	16.9
40°-50°	692.8	17.6
50°-60°	635.0	16.2
60°-70°	498.7	12.7
70°-80°	303.5	7.7
80°-90°	89.8	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°	1046.0	26.6
0°-40°	1710.2	43.5
0°-60°	3038.0	77.3
0°-90°	3930.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3930.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1351	1351	1351	1351	1351	
5°	1338	1347	1346	1344	1348	127
15°	1282	1294	1300	1302	1308	362
25°	1173	1189	1200	1207	1215	540
35°	1027	1043	1064	1080	1087	643
45°	856	874	901	922	933	660
55°	663	680	713	741	754	592
65°	452	468	506	540	553	447
75°	229	250	289	324	339	243
85°	41	58	85	96	102	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1351.0	1351.0	1351.0	1351.0	1351.0
2.5°	1345.9	1352.7	1351.0	1345.1	1347.6
5°	1338.3	1346.8	1345.9	1344.2	1348.5
7.5°	1329.0	1338.3	1339.2	1339.2	1344.2
10°	1318.9	1328.2	1329.9	1327.3	1329.0
12.5°	1302.0	1313.0	1316.3	1316.3	1318.9
15°	1281.7	1294.4	1300.3	1302.0	1307.9
17.5°	1259.7	1273.2	1280.8	1285.1	1290.1
20°	1233.5	1247.9	1256.3	1261.4	1267.3
22.5°	1203.9	1220.0	1229.3	1234.3	1241.1
25°	1172.6	1188.7	1199.7	1207.3	1214.9
27.5°	1139.6	1154.9	1170.1	1179.4	1186.1
30°	1104.1	1120.2	1136.3	1148.1	1154.9
32.5°	1066.1	1083.0	1101.6	1114.3	1121.9
35°	1027.2	1043.3	1064.4	1079.6	1087.2
37.5°	987.5	1004.4	1026.4	1042.4	1051.7
40°	945.2	962.9	986.6	1004.4	1013.7
42.5°	901.2	918.1	944.3	964.6	975.6
45°	856.4	874.2	901.2	922.4	933.4
47.5°	809.9	826.8	856.4	880.9	890.2
50°	761.7	777.8	809.1	835.3	846.3
52.5°	712.7	729.6	760.9	788.8	800.6
55°	662.8	679.7	712.7	741.4	754.1
57.5°	612.1	629.0	662.8	692.4	707.6
60°	559.7	576.6	612.1	642.5	657.7
62.5°	505.6	523.3	559.7	591.0	607.0
65°	451.5	468.4	506.4	540.2	552.9
67.5°	397.4	414.3	451.5	485.3	500.5
70°	341.6	361.0	397.4	432.9	446.4
72.5°	283.2	305.2	341.6	378.8	392.3
75°	229.1	250.2	289.1	323.8	339.0
77.5°	175.8	198.7	235.0	270.5	285.8
80°	125.1	147.1	184.3	218.1	234.2
82.5°	79.5	98.9	136.1	166.5	178.4
85°	40.6	57.5	85.4	95.5	101.5
87.5°	11.8	20.3	30.4	38.0	42.3
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	16.51	18.17	16.88	18.48	18.80	17.25	18.91	17.61	19.22	19.53
	3H	18.28	19.78	18.66	20.11	20.47	19.33	20.83	19.70	21.16	21.52
	4H	18.90	20.32	19.30	20.67	21.04	20.19	21.61	20.59	21.96	22.33
	6H	19.31	20.63	19.72	20.99	21.38	20.93	22.25	21.35	22.62	23.01
	8H	19.41	20.67	19.83	21.06	21.46	21.23	22.49	21.65	22.88	23.28
	12H	19.46	20.67	19.89	21.05	21.48	21.42	22.63	21.85	23.01	23.44
4H	2H	17.28	18.70	17.68	19.05	19.42	17.85	19.27	18.25	19.62	19.99
	3H	19.27	20.47	19.68	20.86	21.26	20.16	21.36	20.57	21.76	22.15
	4H	20.01	21.10	20.44	21.51	21.94	21.18	22.27	21.61	22.68	23.11
	6H	20.54	21.49	20.99	21.93	22.38	22.09	23.04	22.54	23.48	23.93
	8H	20.68	21.57	21.14	22.01	22.48	22.45	23.34	22.91	23.79	24.25
	12H	20.76	21.56	21.24	22.04	22.51	22.71	23.51	23.19	23.98	24.45
8H	4H	20.46	21.35	20.92	21.79	22.25	21.48	22.37	21.94	22.81	23.27
	6H	21.12	21.86	21.61	22.35	22.82	22.54	23.28	23.03	23.77	24.24
	8H	21.33	22.00	21.84	22.50	22.99	23.01	23.67	23.52	24.18	24.66
	12H	21.47	22.06	21.97	22.55	23.11	23.36	23.95	23.87	24.44	25.00
12H	4H	20.54	21.34	21.02	21.81	22.28	21.51	22.31	21.98	22.78	23.25
	6H	21.24	21.91	21.75	22.42	22.90	22.59	23.26	23.09	23.76	24.24
	8H	21.52	22.11	22.03	22.60	23.16	23.13	23.71	23.63	24.20	24.76