

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: P1587705

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-SB-43HE-L935
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

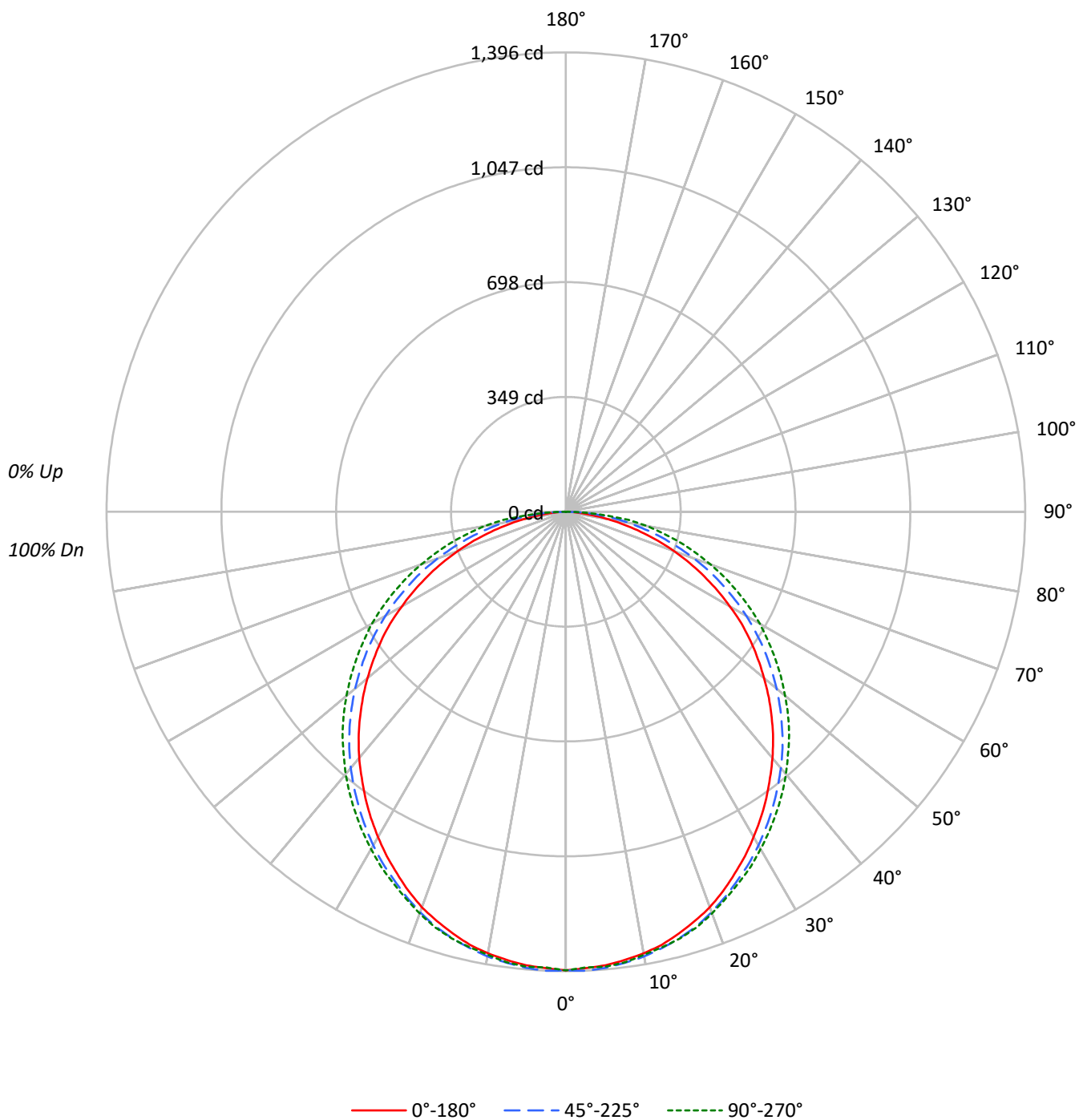
Lumens per Lamp: N/A
Luminaire Lumens: 4067.0 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	93	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	68
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		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	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4364	4364	4364
5°	4348	4372	4362
10°	4333	4363	4346
15°	4300	4345	4350
20°	4262	4314	4328
25°	4193	4268	4297
30°	4127	4233	4280
35°	4060	4192	4265
40°	3994	4156	4254
45°	3919	4117	4250
50°	3833	4072	4239
55°	3745	4027	4239
60°	3607	3967	4264
65°	3438	3891	4267
70°	3207	3783	4279
75°	2854	3645	4353
80°	2344	3493	4517
85°	1545	3277	4081

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4625 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	3.2
10°-20°	377.3	9.3
20°-30°	568.7	14.0
30°-40°	684.9	16.8
40°-50°	715.5	17.6
50°-60°	657.4	16.2
60°-70°	517.7	12.7
70°-80°	317.4	7.8
80°-90°	96.2	2.4
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°	1077.9	26.5
0°-40°	1762.8	43.3
0°-60°	3135.7	77.1
0°-90°	4067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4067.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1394	1394	1394	1394	1394	
5°	1383	1386	1391	1389	1388	131
15°	1326	1332	1340	1345	1342	374
25°	1214	1221	1235	1248	1244	560
35°	1062	1076	1097	1116	1116	664
45°	885	904	930	956	960	683
55°	686	706	738	770	776	612
65°	464	488	525	560	576	459
75°	236	263	301	337	360	251
85°	43	64	91	102	114	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1393.6	1393.6	1393.6	1393.6	1393.6
2.5°	1388.4	1391.9	1396.2	1389.3	1385.9
5°	1383.3	1385.9	1391.0	1389.3	1387.6
7.5°	1373.8	1375.5	1382.4	1382.4	1380.7
10°	1362.6	1366.1	1372.1	1371.2	1366.9
12.5°	1348.0	1350.6	1357.4	1357.4	1354.9
15°	1326.5	1331.6	1340.2	1345.4	1342.0
17.5°	1304.1	1309.2	1320.4	1325.6	1323.9
20°	1279.1	1283.4	1294.6	1302.4	1298.9
22.5°	1248.1	1253.3	1266.2	1274.8	1271.4
25°	1213.7	1221.4	1235.2	1248.1	1243.8
27.5°	1179.3	1187.9	1205.1	1218.0	1216.3
30°	1141.4	1152.6	1170.7	1187.0	1183.6
32.5°	1102.7	1115.6	1134.5	1151.7	1150.9
35°	1062.2	1076.0	1096.6	1116.4	1115.6
37.5°	1019.2	1035.5	1057.0	1078.6	1079.4
40°	977.0	992.5	1016.6	1039.8	1040.7
42.5°	932.2	948.6	974.4	998.5	999.4
45°	884.9	903.8	929.6	955.5	959.8
47.5°	836.7	856.5	883.2	910.7	915.9
50°	786.8	807.4	835.8	865.1	870.2
52.5°	736.0	757.5	786.8	816.0	823.8
55°	686.0	705.8	737.7	769.5	776.4
57.5°	633.5	651.6	686.0	719.6	728.2
60°	575.9	598.2	633.5	667.1	680.9
62.5°	519.9	544.0	580.2	613.7	629.2
65°	464.0	488.1	525.1	560.4	575.9
67.5°	407.1	432.1	471.7	505.3	522.5
70°	350.3	375.3	413.2	449.3	467.4
72.5°	293.5	320.2	357.2	394.2	412.3
75°	235.9	263.4	301.3	337.4	359.8
77.5°	181.6	208.3	246.2	283.2	302.1
80°	130.0	156.7	193.7	230.7	250.5
82.5°	82.6	107.6	143.7	174.7	192.8
85°	43.0	63.7	91.2	101.6	113.6
87.5°	12.9	25.0	35.3	39.6	49.1
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	16.63	18.29	17.00	18.61	18.92	17.38	19.04	17.74	19.36	19.67
	3H	18.39	19.90	18.77	20.23	20.59	19.47	20.98	19.85	21.31	21.67
	4H	19.02	20.44	19.42	20.79	21.16	20.36	21.78	20.76	22.13	22.50
	6H	19.43	20.75	19.84	21.12	21.51	21.13	22.45	21.54	22.81	23.20
	8H	19.54	20.80	19.96	21.19	21.59	21.44	22.70	21.86	23.09	23.49
	12H	19.59	20.80	20.02	21.18	21.61	21.65	22.86	22.08	23.24	23.67
4H	2H	17.40	18.83	17.80	19.17	19.55	17.98	19.40	18.38	19.75	20.13
	3H	19.40	20.59	19.80	20.99	21.39	20.31	21.51	20.72	21.91	22.30
	4H	20.15	21.24	20.58	21.65	22.08	21.35	22.43	21.78	22.84	23.28
	6H	20.69	21.64	21.14	22.08	22.53	22.28	23.23	22.73	23.67	24.12
	8H	20.83	21.73	21.29	22.17	22.63	22.66	23.55	23.12	23.99	24.46
	12H	20.92	21.72	21.40	22.20	22.67	22.94	23.74	23.41	24.21	24.68
8H	4H	20.60	21.49	21.06	21.94	22.40	21.65	22.54	22.10	22.98	23.44
	6H	21.28	22.02	21.77	22.51	22.98	22.73	23.47	23.22	23.96	24.43
	8H	21.50	22.17	22.01	22.67	23.16	23.22	23.89	23.72	24.39	24.88
	12H	21.65	22.24	22.15	22.73	23.29	23.59	24.18	24.10	24.67	25.23
12H	4H	20.69	21.49	21.16	21.96	22.43	21.67	22.48	22.15	22.95	23.42
	6H	21.41	22.08	21.91	22.58	23.07	22.78	23.45	23.29	23.96	24.44
	8H	21.70	22.29	22.20	22.78	23.34	23.34	23.93	23.84	24.42	24.98