

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: P1587707

Luminaire Tested: 22CZSP-SB-43HE-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587707
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-L940
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

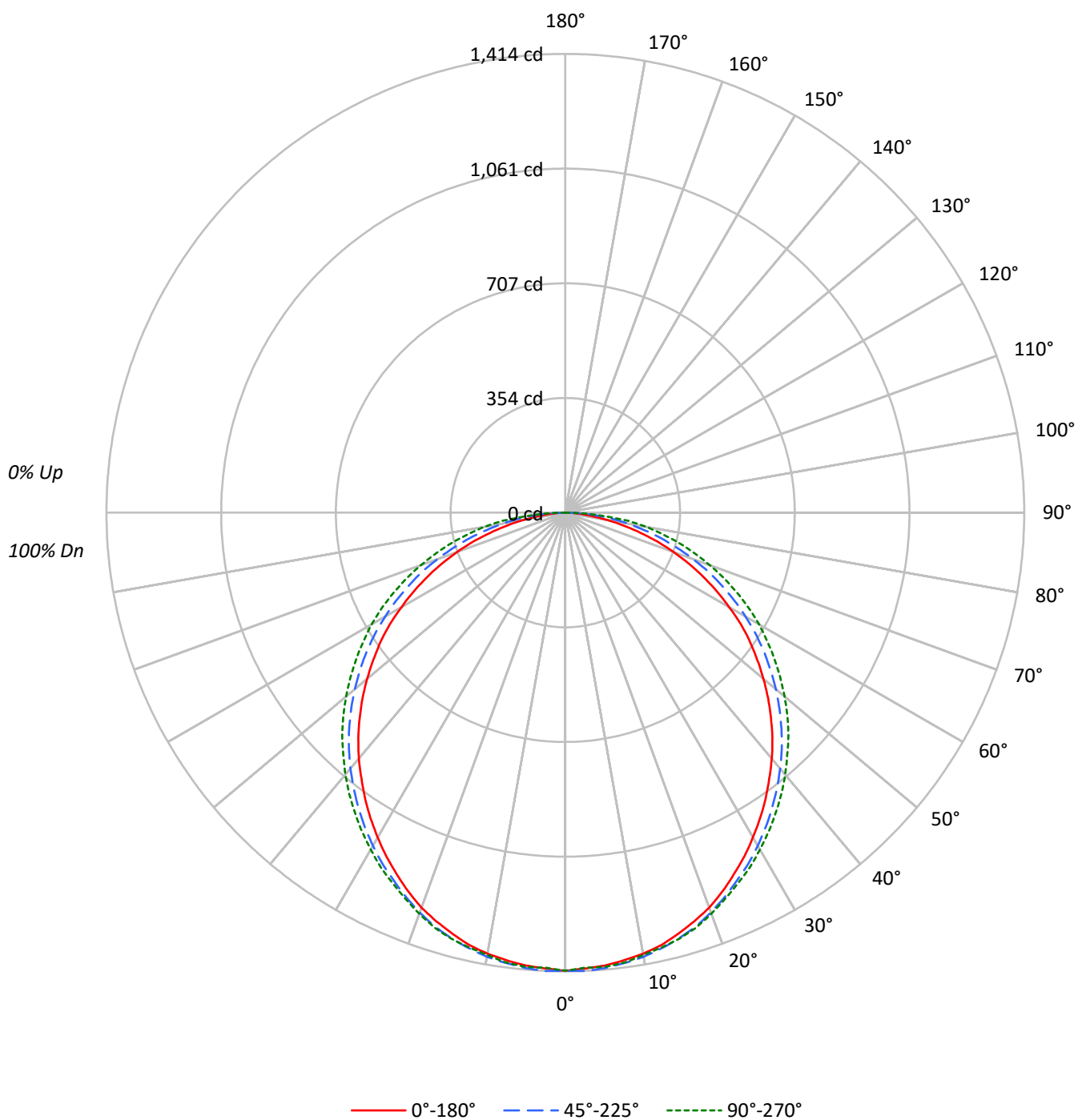
Lumens per Lamp: N/A
Luminaire Lumens: 4120.0 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4421	4421	4421
5°	4405	4429	4419
10°	4389	4420	4403
15°	4356	4401	4407
20°	4318	4370	4385
25°	4248	4323	4353
30°	4181	4288	4335
35°	4113	4247	4320
40°	4046	4209	4309
45°	3970	4171	4306
50°	3883	4125	4295
55°	3794	4080	4294
60°	3654	4019	4319
65°	3482	3941	4323
70°	3249	3832	4335
75°	2890	3692	4410
80°	2375	3538	4577
85°	1566	3320	4135

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4685 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	3.2
10°-20°	382.2	9.3
20°-30°	576.1	14.0
30°-40°	693.8	16.8
40°-50°	724.9	17.6
50°-60°	666.0	16.2
60°-70°	524.4	12.7
70°-80°	321.5	7.8
80°-90°	97.5	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°	1091.9	26.5
0°-40°	1785.8	43.3
0°-60°	3176.6	77.1
0°-90°	4120.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4120.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1412	1412	1412	1412	1412	
5°	1401	1404	1409	1407	1406	133
15°	1344	1349	1358	1363	1359	379
25°	1230	1237	1251	1264	1260	567
35°	1076	1090	1111	1131	1130	673
45°	896	916	942	968	972	691
55°	695	715	747	780	786	620
65°	470	494	532	568	583	465
75°	239	267	305	342	364	254
85°	44	64	92	103	115	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1411.8	1411.8	1411.8	1411.8	1411.8
2.5°	1406.5	1410.0	1414.4	1407.4	1403.9
5°	1401.3	1403.9	1409.1	1407.4	1405.7
7.5°	1391.7	1393.4	1400.4	1400.4	1398.7
10°	1380.4	1383.9	1390.0	1389.1	1384.7
12.5°	1365.5	1368.2	1375.1	1375.1	1372.5
15°	1343.7	1349.0	1357.7	1362.9	1359.4
17.5°	1321.1	1326.3	1337.6	1342.9	1341.1
20°	1295.8	1300.1	1311.5	1319.3	1315.8
22.5°	1264.4	1269.6	1282.7	1291.4	1287.9
25°	1229.5	1237.4	1251.3	1264.4	1260.0
27.5°	1194.6	1203.4	1220.8	1233.9	1232.1
30°	1156.3	1167.6	1185.9	1202.5	1199.0
32.5°	1117.0	1130.1	1149.3	1166.7	1165.9
35°	1076.0	1090.0	1110.9	1131.0	1130.1
37.5°	1032.4	1049.0	1070.8	1092.6	1093.5
40°	989.7	1005.4	1029.8	1053.4	1054.2
42.5°	944.4	960.9	987.1	1011.5	1012.4
45°	896.4	915.6	941.8	967.9	972.3
47.5°	847.6	867.6	894.7	922.6	927.8
50°	797.0	817.9	846.7	876.4	881.6
52.5°	745.6	767.4	797.0	826.7	834.5
55°	695.0	715.0	747.3	779.6	786.5
57.5°	641.8	660.1	695.0	729.0	737.7
60°	583.4	606.0	641.8	675.8	689.7
62.5°	526.7	551.1	587.7	621.7	637.4
65°	470.0	494.4	531.9	567.7	583.4
67.5°	412.5	437.7	477.9	511.9	529.3
70°	354.9	380.2	418.6	455.2	473.5
72.5°	297.4	324.4	361.9	399.4	417.7
75°	238.9	266.8	305.2	341.8	364.5
77.5°	184.0	211.0	249.4	286.9	306.1
80°	131.7	158.7	196.2	233.7	253.8
82.5°	83.7	109.0	145.6	177.0	195.3
85°	43.6	64.5	92.4	102.9	115.1
87.5°	13.1	25.3	35.8	40.1	49.7
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	16.68	18.34	17.04	18.65	18.97	17.42	19.09	17.79	19.40	19.71
	3H	18.44	19.95	18.82	20.27	20.63	19.52	21.03	19.90	21.35	21.71
	4H	19.06	20.49	19.46	20.83	21.21	20.40	21.83	20.80	22.17	22.55
	6H	19.48	20.80	19.89	21.16	21.55	21.17	22.49	21.58	22.86	23.25
	8H	19.58	20.85	20.01	21.23	21.63	21.48	22.75	21.91	23.13	23.53
	12H	19.63	20.85	20.06	21.23	21.66	21.69	22.91	22.12	23.29	23.72
4H	2H	17.45	18.87	17.85	19.22	19.59	18.03	19.45	18.42	19.80	20.17
	3H	19.44	20.64	19.85	21.04	21.43	20.36	21.55	20.76	21.95	22.35
	4H	20.19	21.28	20.63	21.69	22.13	21.39	22.48	21.82	22.89	23.32
	6H	20.73	21.68	21.18	22.12	22.58	22.32	23.27	22.77	23.71	24.17
	8H	20.88	21.77	21.34	22.21	22.68	22.70	23.60	23.16	24.04	24.50
	12H	20.96	21.77	21.44	22.24	22.71	22.98	23.78	23.46	24.26	24.73
8H	4H	20.65	21.54	21.11	21.98	22.44	21.69	22.58	22.15	23.02	23.49
	6H	21.32	22.07	21.82	22.56	23.03	22.77	23.52	23.27	24.01	24.48
	8H	21.55	22.21	22.05	22.72	23.20	23.26	23.93	23.77	24.44	24.92
	12H	21.69	22.28	22.20	22.77	23.33	23.64	24.23	24.14	24.72	25.28
12H	4H	20.73	21.53	21.21	22.01	22.48	21.72	22.52	22.20	23.00	23.46
	6H	21.45	22.12	21.96	22.63	23.11	22.83	23.50	23.33	24.00	24.49
	8H	21.74	22.34	22.25	22.83	23.38	23.38	23.97	23.89	24.46	25.02