

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: P1587697

Luminaire Tested: 22CZSP-SB-43HE-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587697
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-L840
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

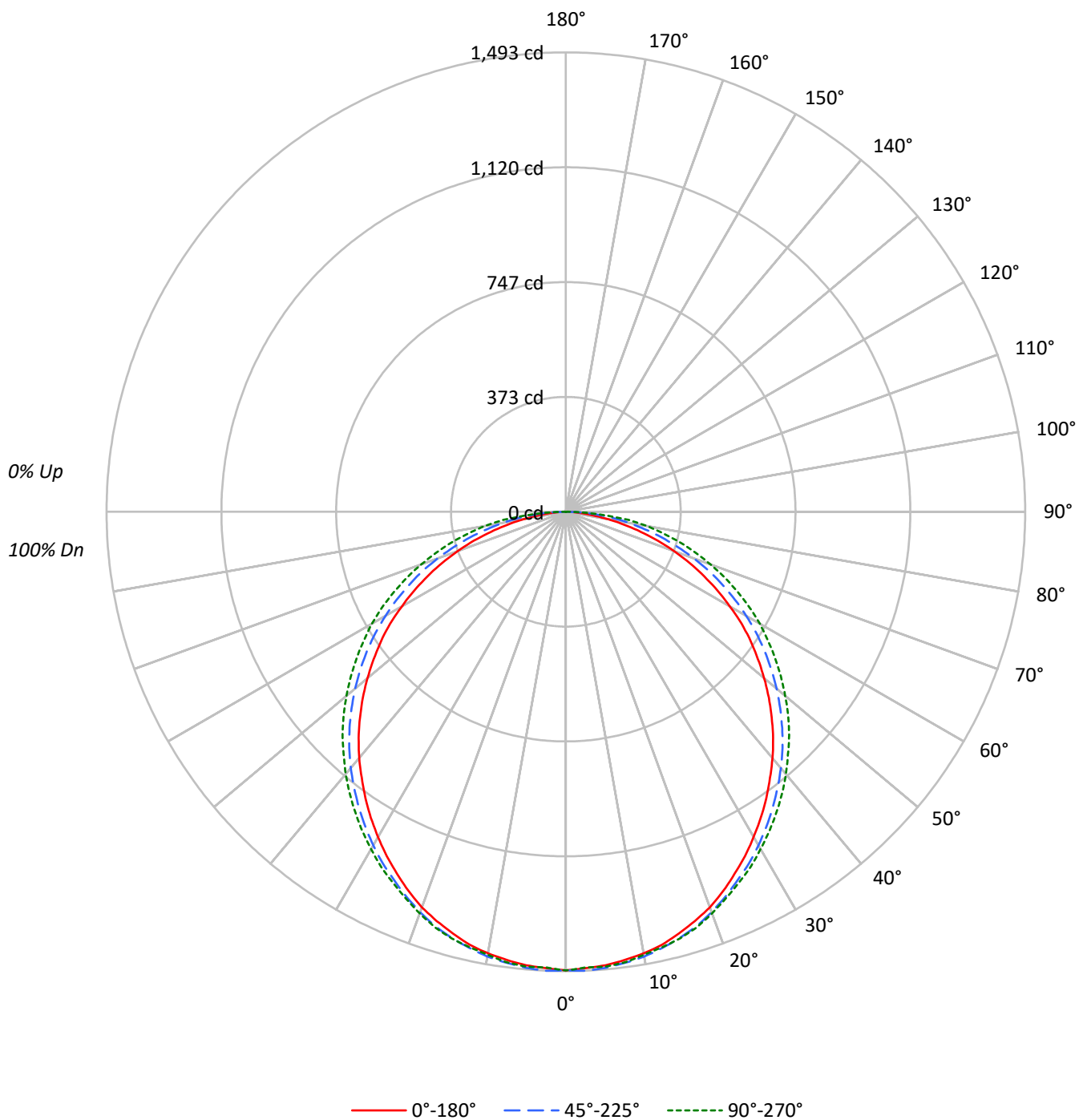
Lumens per Lamp: N/A
Luminaire Lumens: 4350.0 lumens
Efficiency: N/A
Efficacy: 154.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	4668	4668	4668
5°	4650	4677	4665
10°	4634	4666	4649
15°	4599	4647	4653
20°	4559	4614	4630
25°	4485	4565	4597
30°	4414	4527	4577
35°	4343	4484	4561
40°	4272	4445	4550
45°	4191	4403	4546
50°	4099	4355	4534
55°	4006	4307	4533
60°	3857	4244	4561
65°	3677	4161	4563
70°	3431	4046	4577
75°	3052	3898	4656
80°	2507	3736	4831
85°	1653	3507	4365

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4947 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.0	3.2
10°-20°	403.6	9.3
20°-30°	608.3	14.0
30°-40°	732.6	16.8
40°-50°	765.3	17.6
50°-60°	703.1	16.2
60°-70°	553.7	12.7
70°-80°	339.5	7.8
80°-90°	102.9	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°	1152.9	26.5
0°-40°	1885.4	43.3
0°-60°	3353.9	77.1
0°-90°	4350.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4350.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1491	1491	1491	1491	1491	
5°	1480	1482	1488	1486	1484	141
15°	1419	1424	1434	1439	1435	400
25°	1298	1306	1321	1335	1330	598
35°	1136	1151	1173	1194	1193	711
45°	946	967	994	1022	1027	730
55°	734	755	789	823	830	655
65°	496	522	562	599	616	491
75°	252	282	322	361	385	268
85°	46	68	98	109	122	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1490.6	1490.6	1490.6	1490.6	1490.6
2.5°	1485.0	1488.7	1493.3	1486.0	1482.3
5°	1479.5	1482.3	1487.8	1486.0	1484.1
7.5°	1469.4	1471.2	1478.6	1478.6	1476.8
10°	1457.4	1461.1	1467.6	1466.6	1462.0
12.5°	1441.8	1444.5	1451.9	1451.9	1449.1
15°	1418.8	1424.3	1433.5	1439.0	1435.3
17.5°	1394.8	1400.3	1412.3	1417.8	1416.0
20°	1368.1	1372.7	1384.7	1393.0	1389.3
22.5°	1335.0	1340.5	1354.3	1363.5	1359.8
25°	1298.2	1306.4	1321.2	1335.0	1330.4
27.5°	1261.3	1270.5	1288.9	1302.8	1300.9
30°	1220.8	1232.8	1252.1	1269.6	1265.9
32.5°	1179.4	1193.2	1213.4	1231.9	1230.9
35°	1136.1	1150.8	1172.9	1194.1	1193.2
37.5°	1090.1	1107.6	1130.6	1153.6	1154.5
40°	1045.0	1061.5	1087.3	1112.2	1113.1
42.5°	997.1	1014.6	1042.2	1068.0	1068.9
45°	946.5	966.7	994.3	1021.9	1026.6
47.5°	894.9	916.1	944.6	974.1	979.6
50°	841.5	863.6	894.0	925.3	930.8
52.5°	787.2	810.2	841.5	872.8	881.1
55°	733.8	755.0	789.0	823.1	830.4
57.5°	677.6	697.0	733.8	769.7	778.9
60°	615.9	639.9	677.6	713.5	728.3
62.5°	556.1	581.9	620.5	656.4	673.0
65°	496.2	522.0	561.6	599.4	615.9
67.5°	435.5	462.2	504.5	540.4	558.8
70°	374.7	401.4	441.9	480.6	499.9
72.5°	313.9	342.5	382.1	421.7	441.0
75°	252.3	281.7	322.2	360.9	384.8
77.5°	194.3	222.8	263.3	302.9	323.2
80°	139.0	167.6	207.2	246.7	267.9
82.5°	88.4	115.1	153.8	186.9	206.2
85°	46.0	68.1	97.6	108.6	121.5
87.5°	13.8	26.7	37.7	42.4	52.5
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	16.87	18.53	17.23	18.84	19.16	17.61	19.27	17.98	19.59	19.90
	3H	18.63	20.14	19.01	20.46	20.82	19.71	21.22	20.08	21.54	21.90
	4H	19.25	20.68	19.65	21.02	21.40	20.59	22.01	20.99	22.36	22.74
	6H	19.67	20.99	20.08	21.35	21.74	21.36	22.68	21.77	23.04	23.43
	8H	19.77	21.03	20.20	21.42	21.82	21.67	22.93	22.09	23.32	23.72
	12H	19.82	21.03	20.25	21.42	21.84	21.88	23.09	22.31	23.48	23.90
4H	2H	17.64	19.06	18.03	19.41	19.78	18.22	19.64	18.61	19.99	20.36
	3H	19.63	20.83	20.04	21.22	21.62	20.54	21.74	20.95	22.14	22.54
	4H	20.38	21.47	20.81	21.88	22.32	21.58	22.67	22.01	23.08	23.51
	6H	20.92	21.87	21.37	22.31	22.77	22.51	23.46	22.96	23.90	24.36
	8H	21.07	21.96	21.53	22.40	22.87	22.89	23.79	23.35	24.23	24.69
	12H	21.15	21.96	21.63	22.43	22.90	23.17	23.97	23.65	24.45	24.92
8H	4H	20.84	21.73	21.29	22.17	22.63	21.88	22.77	22.34	23.21	23.68
	6H	21.51	22.26	22.01	22.74	23.22	22.96	23.71	23.45	24.19	24.67
	8H	21.73	22.40	22.24	22.91	23.39	23.45	24.12	23.96	24.62	25.11
	12H	21.88	22.47	22.39	22.96	23.52	23.83	24.42	24.33	24.91	25.47
12H	4H	20.92	21.72	21.40	22.20	22.67	21.91	22.71	22.39	23.18	23.65
	6H	21.64	22.31	22.15	22.82	23.30	23.02	23.69	23.52	24.19	24.67
	8H	21.93	22.52	22.44	23.01	23.57	23.57	24.16	24.07	24.65	25.21