

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: P1587696

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587696
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-L840-S
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

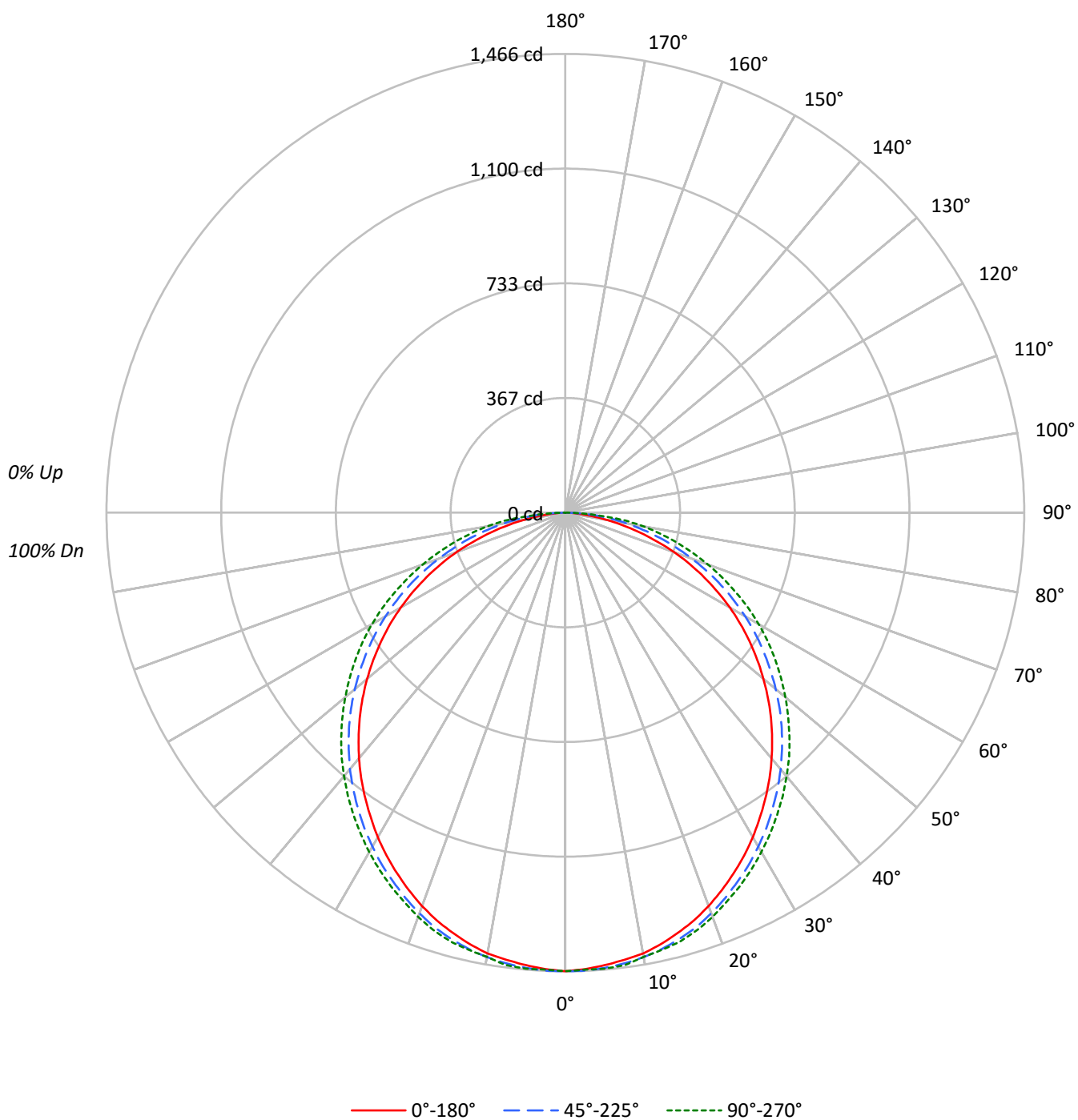
Lumens per Lamp: N/A
Luminaire Lumens: 4263.0 lumens
Efficiency: N/A
Efficacy: 151.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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			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	94	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	69
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53		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	45	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4589	4589	4589
5°	4563	4589	4598
10°	4549	4587	4584
15°	4507	4572	4599
20°	4459	4541	4581
25°	4395	4496	4553
30°	4331	4456	4529
35°	4259	4414	4508
40°	4191	4375	4495
45°	4114	4329	4483
50°	4025	4275	4472
55°	3925	4221	4466
60°	3802	4158	4468
65°	3628	4070	4444
70°	3392	3946	4433
75°	3006	3794	4449
80°	2447	3605	4580
85°	1581	3327	3952

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4642 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.7	3.3
10°-20°	397.1	9.3
20°-30°	598.8	14.0
30°-40°	720.5	16.9
40°-50°	751.5	17.6
50°-60°	688.9	16.2
60°-70°	540.9	12.7
70°-80°	329.2	7.7
80°-90°	97.4	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°	1134.6	26.6
0°-40°	1855.1	43.5
0°-60°	3295.5	77.3
0°-90°	4263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4263.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1466	1466	1466	1466	1466	
5°	1452	1461	1460	1458	1463	138
15°	1390	1404	1410	1412	1419	392
25°	1272	1289	1301	1310	1318	586
35°	1114	1132	1155	1171	1179	697
45°	929	948	978	1000	1012	716
55°	719	737	773	804	818	642
65°	490	508	549	586	600	484
75°	248	272	314	351	368	263
85°	44	62	93	104	110	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1465.5	1465.5	1465.5	1465.5	1465.5
2.5°	1460.0	1467.3	1465.5	1459.1	1461.8
5°	1451.7	1460.9	1460.0	1458.1	1462.7
7.5°	1441.6	1451.7	1452.6	1452.6	1458.1
10°	1430.6	1440.7	1442.5	1439.8	1441.6
12.5°	1412.3	1424.2	1427.9	1427.9	1430.6
15°	1390.3	1404.0	1410.4	1412.3	1418.7
17.5°	1366.4	1381.1	1389.4	1393.9	1399.4
20°	1338.0	1353.6	1362.8	1368.3	1374.7
22.5°	1305.9	1323.3	1333.4	1338.9	1346.3
25°	1272.0	1289.4	1301.3	1309.6	1317.8
27.5°	1236.2	1252.7	1269.2	1279.3	1286.6
30°	1197.7	1215.1	1232.5	1245.4	1252.7
32.5°	1156.4	1174.8	1194.9	1208.7	1216.9
35°	1114.2	1131.7	1154.6	1171.1	1179.3
37.5°	1071.1	1089.5	1113.3	1130.7	1140.8
40°	1025.3	1044.5	1070.2	1089.5	1099.6
42.5°	977.6	995.9	1024.4	1046.4	1058.3
45°	929.0	948.2	977.6	1000.5	1012.4
47.5°	878.5	896.9	929.0	955.6	965.7
50°	826.3	843.7	877.6	906.1	918.0
52.5°	773.1	791.4	825.4	855.6	868.5
55°	719.0	737.3	773.1	804.3	818.0
57.5°	664.0	682.3	719.0	751.1	767.6
60°	607.1	625.4	664.0	697.0	713.5
62.5°	548.4	567.7	607.1	641.0	658.5
65°	489.7	508.1	549.3	586.0	599.8
67.5°	431.0	449.4	489.7	526.4	542.9
70°	370.5	391.6	431.0	469.5	484.2
72.5°	307.2	331.1	370.5	410.8	425.5
75°	248.5	271.5	313.6	351.2	367.7
77.5°	190.7	215.5	254.9	293.5	310.0
80°	135.7	159.6	199.9	236.6	254.0
82.5°	86.2	107.3	147.6	180.7	193.5
85°	44.0	62.4	92.6	103.6	110.0
87.5°	12.8	22.0	33.0	41.3	45.9
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	16.79	18.45	17.16	18.77	19.08	17.53	19.19	17.89	19.50	19.82
	3H	18.56	20.07	18.94	20.39	20.75	19.61	21.11	19.98	21.44	21.80
	4H	19.18	20.60	19.58	20.95	21.32	20.47	21.89	20.87	22.24	22.61
	6H	19.59	20.91	20.00	21.27	21.66	21.22	22.54	21.63	22.90	23.29
	8H	19.69	20.95	20.12	21.34	21.74	21.51	22.77	21.94	23.16	23.56
	12H	19.74	20.95	20.17	21.33	21.76	21.71	22.91	22.13	23.30	23.72
4H	2H	17.56	18.98	17.96	19.33	19.70	18.13	19.55	18.53	19.90	20.27
	3H	19.55	20.75	19.96	21.14	21.54	20.45	21.64	20.85	22.04	22.44
	4H	20.30	21.38	20.73	21.79	22.23	21.46	22.55	21.89	22.96	23.40
	6H	20.82	21.77	21.28	22.21	22.67	22.37	23.32	22.82	23.76	24.21
	8H	20.97	21.86	21.42	22.30	22.76	22.74	23.63	23.20	24.07	24.53
	12H	21.05	21.85	21.53	22.32	22.79	22.99	23.79	23.47	24.27	24.73
8H	4H	20.74	21.63	21.20	22.07	22.54	21.76	22.65	22.22	23.09	23.56
	6H	21.40	22.15	21.90	22.63	23.11	22.82	23.56	23.31	24.05	24.52
	8H	21.61	22.28	22.12	22.78	23.27	23.29	23.96	23.80	24.46	24.95
	12H	21.75	22.34	22.26	22.83	23.39	23.64	24.23	24.15	24.72	25.28
12H	4H	20.82	21.62	21.30	22.10	22.57	21.79	22.59	22.27	23.06	23.53
	6H	21.53	22.20	22.03	22.70	23.18	22.87	23.54	23.38	24.04	24.53
	8H	21.80	22.39	22.31	22.88	23.44	23.41	24.00	23.91	24.49	25.05