

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: P1587733

Luminaire Tested: 22CZSP-SB-49HE-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587733
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-49HE-L830
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 4500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

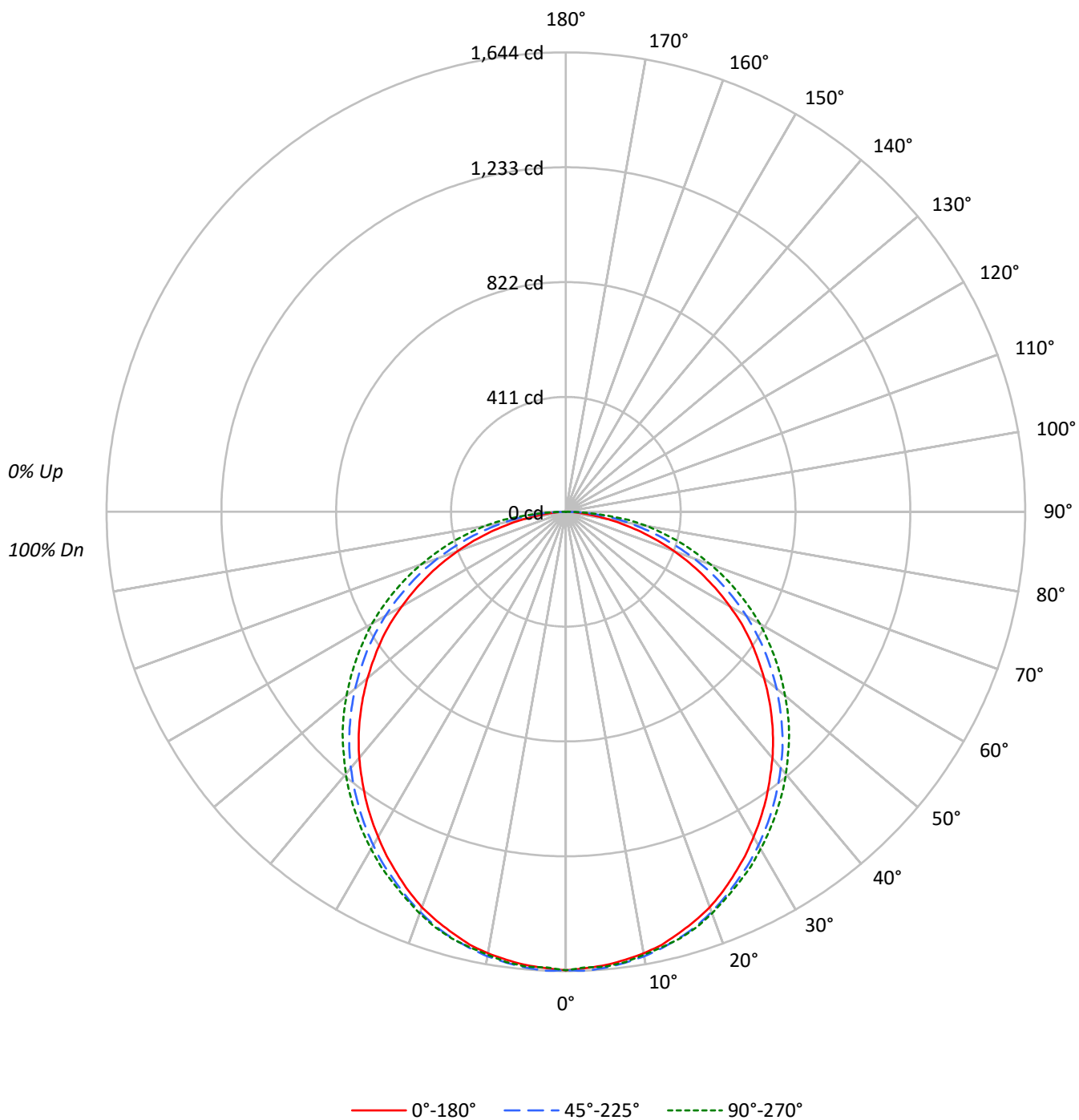
Lumens per Lamp: N/A
Luminaire Lumens: 4789.0 lumens
Efficiency: N/A
Efficacy: 148.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 32.2
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°	5139	5139	5139
5°	5120	5149	5136
10°	5102	5137	5118
15°	5063	5116	5123
20°	5019	5080	5097
25°	4938	5025	5060
30°	4860	4984	5039
35°	4781	4936	5021
40°	4702	4893	5009
45°	4614	4848	5005
50°	4513	4795	4992
55°	4410	4742	4991
60°	4247	4672	5021
65°	4048	4581	5024
70°	3777	4454	5039
75°	3360	4293	5126
80°	2761	4113	5320
85°	1822	3859	4807

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5446 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.2	3.2
10°-20°	444.3	9.3
20°-30°	669.7	14.0
30°-40°	806.5	16.8
40°-50°	842.6	17.6
50°-60°	774.1	16.2
60°-70°	609.6	12.7
70°-80°	373.7	7.8
80°-90°	113.3	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°	1269.2	26.5
0°-40°	2075.7	43.3
0°-60°	3692.4	77.1
0°-90°	4789.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4789.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1641	1641	1641	1641	1641	
5°	1629	1632	1638	1636	1634	155
15°	1562	1568	1578	1584	1580	441
25°	1429	1438	1454	1470	1465	659
35°	1251	1267	1291	1315	1314	782
45°	1042	1064	1095	1125	1130	804
55°	808	831	869	906	914	721
65°	546	575	618	660	678	540
75°	278	310	355	397	424	295
85°	51	75	107	120	134	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1641.0	1641.0	1641.0	1641.0	1641.0
2.5°	1634.9	1639.0	1644.0	1635.9	1631.9
5°	1628.8	1631.9	1638.0	1635.9	1633.9
7.5°	1617.7	1619.7	1627.8	1627.8	1625.8
10°	1604.5	1608.6	1615.7	1614.6	1609.6
12.5°	1587.3	1590.3	1598.4	1598.4	1595.4
15°	1561.9	1568.0	1578.2	1584.2	1580.2
17.5°	1535.6	1541.7	1554.8	1560.9	1558.9
20°	1506.2	1511.3	1524.4	1533.6	1529.5
22.5°	1469.7	1475.8	1491.0	1501.1	1497.1
25°	1429.2	1438.3	1454.5	1469.7	1464.6
27.5°	1388.6	1398.8	1419.0	1434.2	1432.2
30°	1344.0	1357.2	1378.5	1397.7	1393.7
32.5°	1298.4	1313.6	1335.9	1356.2	1355.2
35°	1250.8	1267.0	1291.3	1314.6	1313.6
37.5°	1200.1	1219.3	1244.7	1270.0	1271.0
40°	1150.4	1168.7	1197.0	1224.4	1225.4
42.5°	1097.7	1117.0	1147.4	1175.8	1176.8
45°	1042.0	1064.3	1094.7	1125.1	1130.2
47.5°	985.2	1008.5	1039.9	1072.4	1078.5
50°	926.4	950.7	984.2	1018.7	1024.7
52.5°	866.6	892.0	926.4	960.9	970.0
55°	807.8	831.1	868.6	906.1	914.3
57.5°	746.0	767.3	807.8	847.4	857.5
60°	678.1	704.4	746.0	785.5	801.7
62.5°	612.2	640.6	683.2	722.7	740.9
65°	546.3	574.7	618.3	659.8	678.1
67.5°	479.4	508.8	555.4	595.0	615.2
70°	412.5	441.9	486.5	529.1	550.4
72.5°	345.6	377.1	420.6	464.2	485.5
75°	277.7	310.2	354.8	397.3	423.7
77.5°	213.9	245.3	289.9	333.5	355.8
80°	153.1	184.5	228.1	271.6	295.0
82.5°	97.3	126.7	169.3	205.8	227.0
85°	50.7	75.0	107.4	119.6	133.8
87.5°	15.2	29.4	41.6	46.6	57.8
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	17.20	18.86	17.57	19.18	19.49	17.95	19.61	18.31	19.92	20.24
	3H	18.96	20.47	19.34	20.80	21.16	20.04	21.55	20.42	21.88	22.24
	4H	19.59	21.01	19.98	21.36	21.73	20.93	22.35	21.32	22.70	23.07
	6H	20.00	21.32	20.41	21.68	22.07	21.69	23.01	22.10	23.38	23.77
	8H	20.11	21.37	20.53	21.76	22.16	22.00	23.27	22.43	23.66	24.05
	12H	20.16	21.37	20.59	21.75	22.18	22.22	23.43	22.65	23.81	24.24
4H	2H	17.97	19.39	18.37	19.74	20.11	18.55	19.97	18.95	20.32	20.69
	3H	19.96	21.16	20.37	21.56	21.96	20.88	22.08	21.29	22.47	22.87
	4H	20.72	21.80	21.15	22.22	22.65	21.91	23.00	22.34	23.41	23.85
	6H	21.25	22.21	21.71	22.65	23.10	22.84	23.80	23.30	24.24	24.69
	8H	21.40	22.29	21.86	22.74	23.20	23.23	24.12	23.69	24.56	25.03
	12H	21.49	22.29	21.97	22.77	23.23	23.50	24.31	23.98	24.78	25.25
8H	4H	21.17	22.06	21.63	22.50	22.97	22.21	23.11	22.67	23.55	24.01
	6H	21.85	22.59	22.34	23.08	23.55	23.30	24.04	23.79	24.53	25.00
	8H	22.07	22.74	22.58	23.24	23.73	23.79	24.45	24.29	24.96	25.44
	12H	22.22	22.81	22.72	23.30	23.86	24.16	24.75	24.66	25.24	25.80
12H	4H	21.25	22.06	21.73	22.53	23.00	22.24	23.04	22.72	23.52	23.99
	6H	21.98	22.65	22.48	23.15	23.63	23.35	24.02	23.86	24.52	25.01
	8H	22.27	22.86	22.77	23.35	23.91	23.90	24.50	24.41	24.99	25.54