

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: P1587734

Luminaire Tested: 22CZSP-SB-49HE-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1587734
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-49HE-L835-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 4500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

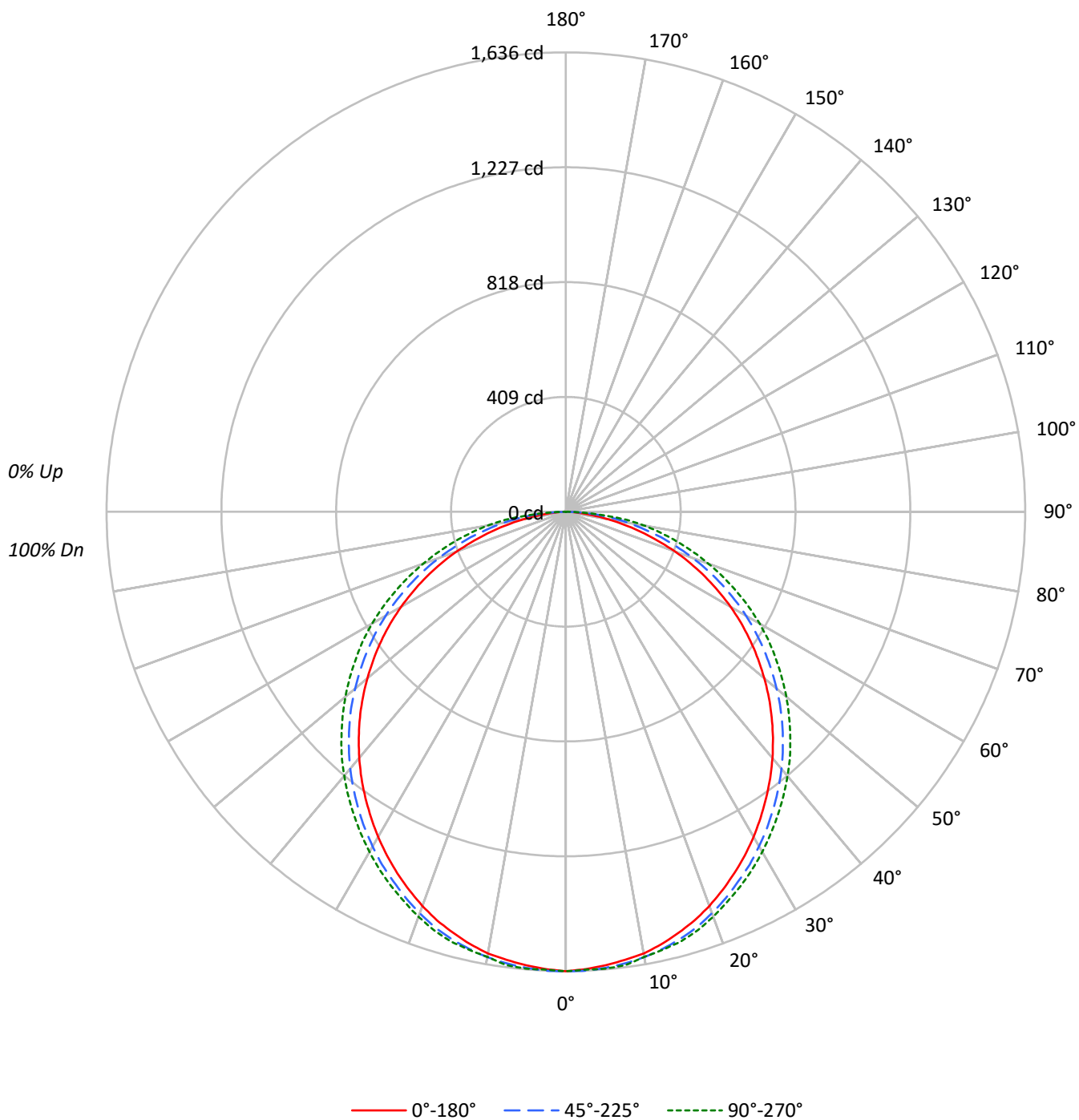
Lumens per Lamp: N/A
Luminaire Lumens: 4760.0 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	5124	5124	5124
5°	5095	5124	5134
10°	5079	5121	5118
15°	5033	5105	5135
20°	4978	5070	5115
25°	4907	5020	5084
30°	4835	4976	5058
35°	4756	4928	5034
40°	4680	4885	5019
45°	4594	4834	5006
50°	4494	4774	4993
55°	4383	4712	4987
60°	4245	4643	4989
65°	4051	4545	4962
70°	3788	4406	4950
75°	3357	4237	4968
80°	2732	4025	5114
85°	1768	3715	4416

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5184 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.8	3.3
10°-20°	443.4	9.3
20°-30°	668.6	14.0
30°-40°	804.5	16.9
40°-50°	839.2	17.6
50°-60°	769.2	16.2
60°-70°	604.0	12.7
70°-80°	367.6	7.7
80°-90°	108.7	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°	1266.9	26.6
0°-40°	2071.3	43.5
0°-60°	3679.7	77.3
0°-90°	4760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4760.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1636	1636	1636	1636	1636	
5°	1621	1631	1630	1628	1633	154
15°	1552	1568	1575	1577	1584	438
25°	1420	1440	1453	1462	1472	655
35°	1244	1264	1289	1308	1317	779
45°	1037	1059	1092	1117	1130	800
55°	803	823	863	898	913	717
65°	547	567	613	654	670	541
75°	278	303	350	392	411	294
85°	49	70	103	116	123	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1636.3	1636.3	1636.3	1636.3	1636.3
2.5°	1630.2	1638.4	1636.3	1629.2	1632.2
5°	1621.0	1631.2	1630.2	1628.1	1633.3
7.5°	1609.7	1621.0	1622.0	1622.0	1628.1
10°	1597.4	1608.7	1610.7	1607.7	1609.7
12.5°	1576.9	1590.2	1594.3	1594.3	1597.4
15°	1552.4	1567.7	1574.9	1576.9	1584.1
17.5°	1525.7	1542.1	1551.3	1556.5	1562.6
20°	1494.0	1511.4	1521.6	1527.8	1534.9
22.5°	1458.2	1477.6	1488.9	1495.0	1503.2
25°	1420.3	1439.7	1453.0	1462.2	1471.5
27.5°	1380.3	1398.8	1417.2	1428.5	1436.6
30°	1337.3	1356.8	1376.2	1390.6	1398.8
32.5°	1291.2	1311.7	1334.2	1349.6	1358.8
35°	1244.1	1263.6	1289.2	1307.6	1316.8
37.5°	1196.0	1216.5	1243.1	1262.6	1273.8
40°	1144.8	1166.3	1195.0	1216.5	1227.8
42.5°	1091.6	1112.0	1143.8	1168.4	1181.7
45°	1037.3	1058.8	1091.6	1117.2	1130.5
47.5°	981.0	1001.5	1037.3	1067.0	1078.3
50°	922.6	942.1	980.0	1011.7	1025.0
52.5°	863.2	883.7	921.6	955.4	969.7
55°	802.8	823.3	863.2	898.0	913.4
57.5°	741.4	761.8	802.8	838.6	857.1
60°	677.9	698.4	741.4	778.2	796.7
62.5°	612.3	633.8	677.9	715.8	735.2
65°	546.8	567.3	613.4	654.3	669.7
67.5°	481.3	501.8	546.8	587.8	606.2
70°	413.7	437.2	481.3	524.3	540.7
72.5°	343.0	369.7	413.7	458.7	475.1
75°	277.5	303.1	350.2	392.2	410.6
77.5°	213.0	240.6	284.7	327.7	346.1
80°	151.5	178.2	223.2	264.2	283.6
82.5°	96.3	119.8	164.9	201.7	216.1
85°	49.2	69.6	103.4	115.7	122.9
87.5°	14.3	24.6	36.9	46.1	51.2
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	17.18	18.84	17.54	19.15	19.46	17.91	19.57	18.28	19.89	20.20
	3H	18.94	20.45	19.32	20.78	21.14	19.99	21.50	20.37	21.82	22.18
	4H	19.56	20.98	19.96	21.33	21.71	20.86	22.28	21.25	22.62	23.00
	6H	19.97	21.29	20.38	21.65	22.04	21.60	22.92	22.01	23.28	23.67
	8H	20.08	21.34	20.50	21.72	22.12	21.90	23.16	22.32	23.54	23.94
	12H	20.12	21.33	20.55	21.71	22.14	22.09	23.30	22.52	23.68	24.11
4H	2H	17.94	19.36	18.34	19.71	20.09	18.52	19.94	18.91	20.28	20.66
	3H	19.94	21.13	20.34	21.53	21.93	20.83	22.02	21.24	22.42	22.82
	4H	20.68	21.76	21.11	22.17	22.61	21.85	22.93	22.28	23.34	23.78
	6H	21.21	22.16	21.66	22.60	23.05	22.75	23.70	23.21	24.14	24.60
	8H	21.35	22.24	21.81	22.68	23.14	23.12	24.01	23.58	24.45	24.91
	12H	21.43	22.23	21.91	22.70	23.17	23.37	24.17	23.85	24.65	25.12
8H	4H	21.12	22.01	21.58	22.45	22.92	22.15	23.03	22.60	23.48	23.94
	6H	21.79	22.53	22.28	23.02	23.49	23.20	23.94	23.69	24.43	24.91
	8H	22.00	22.66	22.50	23.17	23.65	23.67	24.34	24.18	24.85	25.33
	12H	22.13	22.72	22.64	23.21	23.77	24.03	24.62	24.53	25.11	25.66
12H	4H	21.20	22.01	21.68	22.48	22.95	22.17	22.97	22.65	23.45	23.91
	6H	21.91	22.58	22.42	23.08	23.57	23.25	23.92	23.76	24.43	24.91
	8H	22.19	22.78	22.69	23.27	23.83	23.79	24.38	24.30	24.87	25.43